

**APPENDIX D**

**WHALING CAPTAIN SURVEY TABLES**

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**APPENDIX D**  
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## **PART A: DEMOGRAPHICS**



## PART A: DEMOGRAPHICS<sup>1</sup>

### Community

|       |          | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|----------|-----------|---------|---------------|--------------------|
| Valid | Barrow   | 38        | 49.4    | 49.4          | 49.4               |
|       | Kaktovik | 7         | 9.1     | 9.1           | 58.4               |
|       | Nuiqsut  | 7         | 9.1     | 9.1           | 67.5               |
|       | Savoonga | 25        | 32.5    | 32.5          | 100.0              |
|       | Total    | 77        | 100.0   | 100.0         |                    |

### Crosstabs: Number in HH - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| A.1 Number of People in this household * Community | 75    | 97.4%   | 2       | 2.6%    | 77    | 100.0%  |

### A.1 Number of People in this household \* Community Crosstabulation

|  |       | Community |          |         |          | Total |
|--|-------|-----------|----------|---------|----------|-------|
|  |       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| A.1 Number of People in this household | 1     | 1         | 0        | 0       | 3        | 4     |
|  | 2     | 3         | 2        | 0       | 1        | 6     |
|  | 3     | 3         | 0        | 0       | 0        | 3     |
|  | 4     | 5         | 0        | 2       | 6        | 13    |
|  | 5     | 7         | 2        | 0       | 3        | 12    |
|  | 6     | 3         | 2        | 1       | 2        | 8     |
|  | 7     | 6         | 1        | 1       | 7        | 15    |
|  | 8     | 4         | 0        | 1       | 0        | 5     |
|  | 9     | 2         | 0        | 1       | 1        | 4     |
|  | 10    | 0         | 0        | 0       | 1        | 1     |
|  | 11    | 0         | 0        | 1       | 0        | 1     |
|  | 12    | 2         | 0        | 0       | 0        | 2     |
|  | 14    | 0         | 0        | 0       | 1        | 1     |
|  | Total |           | 36       | 7       | 7        | 25    |

<sup>1</sup> Immediately prior to field operations, the numerical order of questions in Part A were organized to be consistent with the numerical order in the Household Survey data tables, as shown in Appendix B.

### Crosstabs: Age Distribution - All Communities

|                                      | Cases |         |         |         |       |         |
|--------------------------------------|-------|---------|---------|---------|-------|---------|
|                                      | Valid |         | Missing |         | Total |         |
|                                      | N     | Percent | N       | Percent | N     | Percent |
| A.3. HH member #1<br>Age * Community | 75    | 97.4%   | 2       | 2.6%    | 77    | 100.0%  |

#### A.3. HH member #1 Age \* Community Crosstabulation

|                          |    | Community |          |         |          | Total |
|--------------------------|----|-----------|----------|---------|----------|-------|
|                          |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| A.3. HH member<br>#1 Age | 0  | 0         | 1        | 0       | 0        | 1     |
|                          | 29 | 1         | 0        | 0       | 0        | 1     |
|                          | 33 | 2         | 0        | 0       | 0        | 2     |
|                          | 34 | 1         | 0        | 0       | 2        | 3     |
|                          | 37 | 1         | 0        | 0       | 0        | 1     |
|                          | 38 | 0         | 0        | 1       | 0        | 1     |
|                          | 39 | 1         | 0        | 0       | 0        | 1     |
|                          | 40 | 1         | 0        | 0       | 0        | 1     |
|                          | 42 | 0         | 0        | 1       | 1        | 2     |
|                          | 43 | 1         | 0        | 0       | 2        | 3     |
|                          | 44 | 1         | 1        | 0       | 0        | 2     |
|                          | 45 | 0         | 0        | 1       | 0        | 1     |
|                          | 46 | 1         | 1        | 0       | 0        | 2     |
|                          | 47 | 1         | 0        | 1       | 2        | 4     |
|                          | 48 | 1         | 0        | 0       | 0        | 1     |
|                          | 49 | 1         | 0        | 0       | 1        | 2     |
|                          | 50 | 1         | 0        | 0       | 0        | 1     |
|                          | 51 | 0         | 0        | 0       | 1        | 1     |
|                          | 52 | 1         | 0        | 0       | 0        | 1     |
|                          | 53 | 3         | 0        | 0       | 1        | 4     |
|                          | 54 | 0         | 0        | 0       | 1        | 1     |
|                          | 55 | 2         | 0        | 0       | 1        | 3     |
|                          | 56 | 2         | 0        | 0       | 0        | 2     |
|                          | 57 | 2         | 0        | 1       | 0        | 3     |
|                          | 58 | 1         | 0        | 0       | 0        | 1     |
|                          | 59 | 1         | 0        | 0       | 1        | 2     |
|                          | 60 | 1         | 0        | 1       | 3        | 5     |
|                          | 61 | 3         | 1        | 0       | 0        | 4     |
|                          | 63 | 0         | 0        | 1       | 1        | 2     |
|                          | 64 | 0         | 1        | 0       | 0        | 1     |
|                          | 65 | 0         | 0        | 0       | 1        | 1     |
|                          | 67 | 1         | 0        | 0       | 1        | 2     |
| 69                       | 1  | 0         | 0        | 1       | 2        |       |
| 70                       | 0  | 0         | 0        | 3       | 3        |       |
| 71                       | 0  | 1         | 0        | 0       | 1        |       |
| 72                       | 0  | 0         | 0        | 1       | 1        |       |
| 74                       | 2  | 0         | 0        | 0       | 2        |       |
| 76                       | 0  | 0         | 0        | 1       | 1        |       |
| 77                       | 2  | 0         | 0        | 0       | 2        |       |
| 82                       | 0  | 1         | 0        | 0       | 1        |       |
| Total                    |    | 36        | 7        | 7       | 25       | 75    |

### Crosstabs: Gender - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| A.4. HH member #1<br>Gender * Community | 75    | 97.4%   | 2       | 2.6%    | 77    | 100.0%  |

#### A.4. HH member #1 Gender \* Community Crosstabulation

|                             |        | Community |          |         |          | Total |
|-----------------------------|--------|-----------|----------|---------|----------|-------|
|                             |        | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| A.4. HH member<br>#1 Gender | Male   | 36        | 7        | 7       | 24       | 74    |
|                             | Female | 0         | 0        | 0       | 1        | 1     |
| Total                       |        | 36        | 7        | 7       | 25       | 75    |

### Crosstabs: Ethnicity - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| A.5. HH member #1<br>Ethnicity * Community | 75    | 97.4%   | 2       | 2.6%    | 77    | 100.0%  |

#### A.5. HH member #1 Ethnicity \* Community Crosstabulation

|                                |                      | Community |          |         |          | Total |
|--------------------------------|----------------------|-----------|----------|---------|----------|-------|
|                                |                      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| A.5. HH member<br>#1 Ethnicity | Iñupiat              | 36        | 7        | 7       | 0        | 50    |
|                                | Bering Straits Yupik | 0         | 0        | 0       | 25       | 25    |
| Total                          |                      | 36        | 7        | 7       | 25       | 75    |

### Crosstabs: Education (Whaling Captains) All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| A.6. HH member #1<br>Education * Community | 73    | 94.8%   | 4       | 5.2%    | 77    | 100.0%  |

#### A.6. HH member #1 Education \* Community Crosstabulation

|                                |                      | Community |          |         |          | Total |
|--------------------------------|----------------------|-----------|----------|---------|----------|-------|
|                                |                      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| A.6. HH member<br>#1 Education | No Formal education  | 2         | 1        | 0       | 0        | 3     |
|                                | Elementary School    | 2         | 2        | 1       | 2        | 7     |
|                                | Middle School        | 2         | 2        | 1       | 8        | 13    |
|                                | High School / GED    | 11        | 2        | 3       | 12       | 28    |
|                                | VOC/Tech Graduate    | 5         | 0        | 2       | 0        | 7     |
|                                | Some College         | 12        | 0        | 0       | 2        | 14    |
|                                | Baccalaureate Degree | 0         | 0        | 0       | 1        | 1     |
| Total                          |                      | 34        | 7        | 7       | 25       | 73    |



### Crosstabs: Years of Residency (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| A.7. HH member #1<br>Years Resident *<br>Community | 75    | 97.4%   | 2       | 2.6%    | 77    | 100.0%  |

#### A.7. HH member #1 Years Resident \* Community Crosstabulation

|                                  |    | Community |          |         |          | Total |
|----------------------------------|----|-----------|----------|---------|----------|-------|
|                                  |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| A.7. HH member #1 Years Resident | 22 | 0         | 0        | 1       | 0        | 1     |
|                                  | 24 | 0         | 0        | 1       | 0        | 1     |
|                                  | 29 | 1         | 0        | 0       | 0        | 1     |
|                                  | 30 | 1         | 1        | 0       | 0        | 2     |
|                                  | 31 | 0         | 0        | 5       | 0        | 5     |
|                                  | 33 | 2         | 1        | 0       | 0        | 3     |
|                                  | 34 | 1         | 0        | 0       | 2        | 3     |
|                                  | 37 | 1         | 0        | 0       | 0        | 1     |
|                                  | 39 | 1         | 0        | 0       | 0        | 1     |
|                                  | 40 | 3         | 0        | 0       | 0        | 3     |
|                                  | 42 | 1         | 0        | 0       | 1        | 2     |
|                                  | 43 | 0         | 1        | 0       | 2        | 3     |
|                                  | 44 | 1         | 1        | 0       | 0        | 2     |
|                                  | 45 | 0         | 0        | 0       | 1        | 1     |
|                                  | 46 | 1         | 1        | 0       | 0        | 2     |
|                                  | 47 | 1         | 0        | 0       | 2        | 3     |
|                                  | 48 | 1         | 0        | 0       | 2        | 3     |
|                                  | 49 | 1         | 0        | 0       | 0        | 1     |
|                                  | 50 | 1         | 0        | 0       | 0        | 1     |
|                                  | 51 | 1         | 0        | 0       | 1        | 2     |
|                                  | 52 | 3         | 0        | 0       | 0        | 3     |
|                                  | 53 | 3         | 0        | 0       | 1        | 4     |
|                                  | 54 | 0         | 0        | 0       | 1        | 1     |
|                                  | 55 | 2         | 0        | 0       | 0        | 2     |
|                                  | 56 | 1         | 0        | 0       | 0        | 1     |
|                                  | 57 | 1         | 0        | 0       | 0        | 1     |
|                                  | 58 | 1         | 0        | 0       | 0        | 1     |
|                                  | 59 | 1         | 0        | 0       | 1        | 2     |
|                                  | 60 | 1         | 0        | 0       | 2        | 3     |
|                                  | 61 | 1         | 0        | 0       | 0        | 1     |
|                                  | 62 | 0         | 0        | 0       | 1        | 1     |
|                                  | 63 | 0         | 0        | 0       | 1        | 1     |
|                                  | 65 | 0         | 0        | 0       | 2        | 2     |
|                                  | 66 | 1         | 0        | 0       | 0        | 1     |
|                                  | 67 | 1         | 0        | 0       | 2        | 3     |
|                                  | 68 | 0         | 0        | 0       | 1        | 1     |
|                                  | 69 | 1         | 0        | 0       | 1        | 2     |
|                                  | 70 | 0         | 0        | 0       | 1        | 1     |
|                                  | 71 | 0         | 1        | 0       | 0        | 1     |
|                                  | 74 | 1         | 0        | 0       | 0        | 1     |
|                                  | 82 | 0         | 1        | 0       | 0        | 1     |
| Total                            |    | 36        | 7        | 7       | 25       | 75    |

### Crosstabs: Villages Organizational Membership (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| A.8. HH member #1 Village Corporation * Community | 72    | 93.5%   | 5       | 6.5%    | 77    | 100.0%  |

#### A.8. HH member #1 Village Corporation \* Community Crosstabulation

|                                       |                       | Community |          |         |          | Total |
|---------------------------------------|-----------------------|-----------|----------|---------|----------|-------|
|                                       |                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| A.8. HH member #1 Village Corporation | Kuupik                | 1         | 0        | 4       | 0        | 5     |
|                                       | UIC                   | 33        | 1        | 3       | 0        | 37    |
|                                       | Kaktovik Iñupiat      | 0         | 6        | 0       | 0        | 6     |
|                                       | Savoonga Native Corp. | 0         | 0        | 0       | 24       | 24    |
| Total                                 |                       | 34        | 7        | 7       | 24       | 72    |

### Crosstabs: Regional Organizational Membership (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| A.9. HH member #1 Regional Profit Corp. * Community | 52    | 67.5%   | 25      | 32.5%   | 77    | 100.0%  |

#### A.9. HH member #1 Regional Profit Corp. \* Community Crosstabulation

|   |                                   | Community |          |         |          | Total |
|---|-----------------------------------|-----------|----------|---------|----------|-------|
|   |                                   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| A.9. HH member #1 Regional Profit Corp. | AHTNA, Inc.                       | 0         | 0        | 1       | 0        | 1     |
|   | Arctic Slope Regional Corporation | 35        | 7        | 6       | 0        | 48    |
|   | Bering Straits Native Corporation | 0         | 0        | 0       | 3        | 3     |
| Total                                   |                                   | 35        | 7        | 7       | 3        | 52    |

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**PART B: EMPLOYMENT & INCOME**

## PART B: EMPLOYMENT & INCOME<sup>2</sup>

### Crosstabs: WC Employment and Unemployment - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| B.1 HH Member #1 Employment Status? * Community                                     | 74    | 94.9%   | 4       | 5.1%    | 78    | 100.0%  |
| B.2 HH Member #1 Employer? * Community  | 49    | 62.8%   | 29      | 37.2%   | 78    | 100.0%  |
| B.4 Was HH Member #1 unemployed during last 12 months * Community                   | 61    | 78.2%   | 17      | 21.8%   | 78    | 100.0%  |
| B.4a How many months was HH Member #1 Unemployed during last 12 months? * Community | 75    | 96.2%   | 3       | 3.8%    | 78    | 100.0%  |
| B.5 HH Member #1 if unemployed - what is the reason? * Community                    | 20    | 25.6%   | 58      | 74.4%   | 78    | 100.0%  |

#### B.1 HH Member #1 Employment Status? \* Community Crosstabulation

|                                     |                     | Community |          |         |          | Total |
|-------------------------------------|---------------------|-----------|----------|---------|----------|-------|
|                                     |                     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B.1 HH Member #1 Employment Status? | Permanent/Full-time | 20        | 3        | 2       | 2        | 27    |
|                                     | Temporary/Seasonal  | 1         | 0        | 2       | 10       | 13    |
|                                     | Part-time           | 3         | 0        | 0       | 1        | 4     |
|                                     | Job sharing         | 0         | 1        | 1       | 0        | 2     |
|                                     | Unemployed          | 6         | 0        | 2       | 5        | 13    |
|                                     | Retired             | 6         | 3        | 0       | 6        | 15    |
| Total                               |                     | 36        | 7        | 7       | 24       | 74    |

#### B.2 HH Member #1 Employer? \* Community Crosstabulation

|                            |  | Community |          |         |          | Total |
|----------------------------|--|-----------|----------|---------|----------|-------|
|                            |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B.2 HH Member #1 Employer? | Federal Government                       | 0         | 1        | 2       | 8        | 11    |
|                            | Private Firm                             | 0         | 0        | 0       | 1        | 1     |
|                            | Regional Corporation or Subsidiary       | 1         | 0        | 1       | 0        | 2     |
|                            | NSB CIP                                  | 1         | 0        | 0       | 0        | 1     |
|                            | NSB Government                           | 15        | 4        | 0       | 0        | 19    |
|                            | NSBSD/REAA Schools                       | 0         | 1        | 0       | 0        | 1     |
|                            | Village Corporation or Subsidiary        | 2         | 1        | 2       | 0        | 5     |
|                            | Tribal/IRA Council/Native Govt.          | 3         | 0        | 0       | 4        | 7     |
|                            | Regional Non-Profit Corp.                | 0         | 0        | 0       | 1        | 1     |
|                            | Other: Retired, Homemaker, Student, etc. | 1         | 0        | 0       | 0        | 1     |
| Total                      |  | 23        | 7        | 5       | 14       | 49    |

<sup>2</sup> Immediately prior to field operations, the ordering of numbers for Part B changed to facilitate subsequent analysis. Additional employment questions consistent with the Household Survey were provided for comparison.

**B.4 Was HH Member #1 unemployed during last 12 months? \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B.4 Was HH Member #1 unemployed during last 12 months? | Yes | 6         | 0        | 3       | 8        | 17    |
|  | No  | 20        | 5        | 3       | 16       | 44    |
| Total  |     | 26        | 5        | 6       | 24       | 61    |

**B.4a How many months was HH Member #1 Unemployed during last 12 months? \* Community Crosstabulation**

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B.4a How many months was HH Member #1 Unemployed during last 12 months? | 0  | 29        | 7        | 4       | 17       | 57    |
|   | 2  | 0         | 0        | 0       | 1        | 1     |
|   | 3  | 2         | 0        | 1       | 2        | 5     |
|   | 5  | 1         | 0        | 0       | 0        | 1     |
|   | 6  | 0         | 0        | 1       | 1        | 2     |
|   | 10 | 0         | 0        | 0       | 1        | 1     |
|   | 12 | 4         | 0        | 1       | 2        | 7     |
|   | 99 | 0         | 0        | 0       | 1        | 1     |
| Total   |    | 36        | 7        | 7       | 25       | 75    |

**B.5 HH Member #1 if unemployed - what is the reason? \* Community Crosstabulation**

|  |                                      | Community |         |          | Total |
|--|--------------------------------------|-----------|---------|----------|-------|
|  |                                      | Barrow    | Nuiqsut | Savoonga |       |
| B.5 HH Member #1 if unemployed - what is the reason? | Does not want a job                  | 1         | 0       | 1        | 2     |
|  | Could not get a job                  | 4         | 3       | 4        | 11    |
|  | Disability                           | 1         | 0       | 0        | 1     |
|  | Conflict with subsistence activities | 0         | 0       | 3        | 3     |
|  | Other                                | 1         | 0       | 2        | 3     |
| Total  |                                      | 7         | 3       | 10       | 20    |

## PART B(2): EMPLOYMENT

### Crosstabs: Satisfaction with Current Job (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| B1 Satisfaction with current job * Community | 46    | 59.7%   | 31      | 40.3%   | 77    | 100.0%  |

#### B1 Satisfaction with current job \* Community Crosstabulation

|                                  |                                      | Community |          |         |          | Total |
|----------------------------------|--------------------------------------|-----------|----------|---------|----------|-------|
|                                  |                                      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B1 Satisfaction with current job | Very happy                           | 17        | 3        | 2       | 6        | 28    |
|                                  | Like the job, but would take another | 6         | 1        | 3       | 7        | 17    |
|                                  | Do not like the job                  | 0         | 1        | 0       | 0        | 1     |
| Total                            |                                      | 23        | 5        | 5       | 13       | 46    |

### Crosstabs: Why feelings about current job (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| B1a Why feelings about current job * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

#### B1a Why feelings about current job \* Community Crosstabulation

|                                    |   | Community |          |         |          | Total |
|------------------------------------|---|-----------|----------|---------|----------|-------|
|                                    |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B1a Why feelings about current job | <b>No additional comments offered</b>   | 17        | 0        | 0       | 17       | 34    |
|                                    | Answered for his last seasonal job, working on the natural gas project in the village. This job ended in March [so why he indicated 6 months of being unemployed is not clear]. He is a seasonal worker and takes jobs as they are available. There are no permanent jobs available in the community. | 0         | 0        | 1       | 0        | 1     |
|                                    | Because he is a general foreman.  | 1         | 0        | 0       | 0        | 1     |
|                                    | Will be laid off at the end of the month  | 1         | 0        | 0       | 0        | 1     |
|                                    | Can have his own crew to work with.   | 0         | 0        | 0       | 1        | 1     |
|                                    | Carpentry is my trade, I build houses.  | 0         | 0        | 0       | 1        | 1     |
|                                    | Co-workers - my staff are my children   | 1         | 0        | 0       | 0        | 1     |
|                                    | Creates programs for the environment. Likes being the steward of the environment.   | 1         | 0        | 0       | 0        | 1     |
|                                    | Enjoys working for the shareholders   | 1         | 0        | 0       | 0        | 1     |
|                                    | Enjoys working with the people in his office.   | 1         | 0        | 0       | 0        | 1     |
|                                    | Happy but retiring next week.   | 1         | 0        | 0       | 0        | 1     |
|                                    | He enjoys the work and thinks that he will be able to still work part-time (if he wants to) after he retires. He will work at this job until he retires, and then maybe work part-time, either here or elsewhere.   | 0         | 1        | 0       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| He is doing what interests him - hunting-related work that integrates traditional knowledge and science.  | 1         | 0        | 0       | 0        | 1     |
| High paying job - would not change unless for at least the same pay for the same amount of work. However, the job has too much time in the office and not enough in the field or onsite, and also there is too much paperwork.  | 0         | 1        | 0       | 0        | 1     |
| If a better offer came, would probably take it. The biggest concern is the number of jobs with the NSB - if both my wife and myself have to travel for our job, it would effect the family; would need to take another job.   | 1         | 0        | 0       | 0        | 1     |
| If the pay was better   | 1         | 0        | 0       | 0        | 1     |
| Job entails traveling to other villages   | 1         | 0        | 0       | 0        | 1     |
| Job is in the village, so respondent can stay at home. Respondent likes that seasonally he can sometimes work quite a bit of overtime and earn a good amount of money. If there were no jobs locally, respondent might be willing to work outside of the village. VECO wanted to hire the respondent at one point (his wife had sent in his resume to VECO by mistake) but his boss in the village would not let him go and he was not anxious to do so anyway. If there were no jobs in the village, then he would go out. | 0         | 0        | 1       | 0        | 1     |
| Job would be fine if the salary were larger and the benefits were better -- but respondent says that he is okay where he is now. Has been working there 3 years.  | 0         | 0        | 1       | 0        | 1     |
| Likes it very much and has stayed with it for 19 years (1 more for 20).   | 0         | 1        | 0       | 0        | 1     |
| Likes to fix things, TVs, VCRs, very good at this type of thing.  | 0         | 0        | 0       | 1        | 1     |
| Likes to write and can do so in job.  | 0         | 0        | 0       | 1        | 1     |
| Long working hours, bigger pay.   | 0         | 0        | 0       | 1        | 1     |
| Not applicable -- not employed [history of seasonal jobs, construction and heavy equipment related].  | 0         | 0        | 1       | 0        | 1     |
| Not applicable -- not employed at present.  | 0         | 0        | 1       | 0        | 1     |
| Not applicable -- retired.  | 0         | 2        | 0       | 0        | 2     |
| Not enough hours, as it is a half-time (job sharing) job. Job is also hot healthy for him, as it is working at the fuel station and there are too many fumes. Being outside so much also aggravates his arthritis. He has to walk several blocks to and from work.  | 0         | 1        | 0       | 0        | 1     |
| Pay is good.  | 1         | 0        | 0       | 0        | 1     |
| Respondent enjoys what he is doing.   | 1         | 0        | 0       | 0        | 1     |
| Retired -- NA   | 1         | 0        | 0       | 0        | 1     |
| Same pay and longer hours.  | 0         | 0        | 0       | 1        | 1     |
| Temporary - there are some job opportunities but I am mainly focusing on subsistence harvesting, purposely focusing on subsistence.   | 0         | 0        | 0       | 2        | 2     |
| Temporary one month job.  | 1         | 0        | 0       | 0        | 1     |



|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | The job has many challenges and many sources of satisfaction -- making money for the corporation and providing employment opportunities for shareholders. For example, 60% of the workforce on the ice road project was Native hire. | 0         | 0        | 1       | 0        | 1     |
|       | The job location is very noisy and he does not like the frequent oil changes he has to do -- they are messy and a potential health hazard, he thinks. The pay and the benefits are good.   | 0         | 1        | 0       | 0        | 1     |
|       | Travels for work, loves the ocean and can spend time on the ocean.   | 1         | 0        | 0       | 0        | 1     |
|       | Travels to the villages and is doing something worthwhile.   | 1         | 0        | 0       | 0        | 1     |
|       | Typically jobs up on the NS are 35 hrs a week, and people get paid for 35 hrs. He gets paid for 40 hrs, 5 more than others get.  | 1         | 0        | 0       | 0        | 1     |
|       | Working with the NSB for 27 years; likes it.   | 1         | 0        | 0       | 0        | 1     |
|       | Would change jobs for the additional experience.   | 1         | 0        | 0       | 0        | 1     |
|       | Would like to return to a construction job.  | 1         | 0        | 0       | 0        | 1     |
|       | Would prefer a less stressful job. The pay and benefits are okay, but the job is too stressful.  | 0         | 0        | 1       | 0        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Reasons (Coded) for Opinions about Job (WC) - All Communities

|                                    | Cases |         |         |         |       |         |
|------------------------------------|-------|---------|---------|---------|-------|---------|
|                                    | Valid |         | Missing |         | Total |         |
|                                    | N     | Percent | N       | Percent | N     | Percent |
| Why opinions about job * Community | 38    | 49.4%   | 39      | 50.6%   | 77    | 100.0%  |

### Why opinions about job \* Community Crosstabulation

|                        |                           | Community |          |         |          | Total |
|------------------------|---------------------------|-----------|----------|---------|----------|-------|
|                        |                           | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Why opinions about job | Helping others            | 4         | 0        | 0       | 0        | 4     |
|                        | Responsibilities          | 1         | 0        | 0       | 0        | 1     |
|                        | Rate of pay               | 2         | 0        | 0       | 0        | 2     |
|                        | General comments          | 8         | 3        | 2       | 4        | 17    |
|                        | Stress or not enough work | 5         | 2        | 3       | 4        | 14    |
| Total                  |                           | 20        | 5        | 5       | 8        | 38    |

### Crosstabs: Household Income Whaling Captains - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| B2 Annual current household income * Community | 64    | 83.1%   | 13      | 16.9%   | 77    | 100.0%  |

#### B2 Annual current household income \* Community Crosstabulation

|                                    |                     | Community |          |         |          | Total |
|------------------------------------|---------------------|-----------|----------|---------|----------|-------|
|                                    |                     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B2 Annual current household income | < \$15,000          | 0         | 0        | 1       | 10       | 11    |
|                                    | \$15,000-\$29,999   | 4         | 3        | 1       | 3        | 11    |
|                                    | \$30,000-\$59,999   | 6         | 2        | 1       | 10       | 19    |
|                                    | \$60,000-\$99,999   | 8         | 1        | 1       | 1        | 11    |
|                                    | \$100,000-\$149,999 | 4         | 1        | 2       | 0        | 7     |
|                                    | \$150,000-\$199,999 | 2         | 0        | 0       | 0        | 2     |
|                                    | \$200,000+          | 2         | 0        | 1       | 0        | 3     |
| Total                              |                     | 26        | 7        | 7       | 24       | 64    |

### Crosstabs: Changes in HH Financial Situation (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| B3 During the past 5 years, change in household's financial situation * Community | 68    | 88.3%   | 9       | 11.7%   | 77    | 100.0%  |

#### B3 During the past 5 years, change in household's financial situation \* Community Crosstabulation

|   |                 | Community |          |         |          | Total |
|---|-----------------|-----------|----------|---------|----------|-------|
|   |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B3 During the past 5 years, change in household's financial situation | Getting better  | 4         | 1        | 2       | 2        | 9     |
|   | Stayed the same | 22        | 5        | 2       | 16       | 45    |
|   | Getting worse   | 7         | 1        | 3       | 3        | 14    |
| Total   |                 | 33        | 7        | 7       | 21       | 68    |

## Crosstabs: Explanations for Changes in Household Financial Situation (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| B3a Why status of household's financial situation * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### B3a Why status of household's financial situation \* Community Crosstabulation

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B3a Why status of household's financial situation                                   | <b>No additional comments offered</b>  | 25        | 0        | 0       | 19       | 44    |
|   | Although the HH income is lower than when his wife was working, they are getting by. Had to cut back.    | 0         | 1        | 0       | 0        | 1     |
|   | Arthritis - cannot do any work due to disability.  | 1         | 0        | 0       | 0        | 1     |
|   | Bills are higher, maybe especially electricity.  | 0         | 0        | 1       | 0        | 1     |
|   | Budget cuts and declining economy.   | 1         | 0        | 0       | 0        | 1     |
|   | Can't find a job.  | 1         | 0        | 0       | 0        | 1     |
|   | Depends  | 1         | 0        | 0       | 0        | 1     |
|   | Experience doing work for the community is paying off.   | 1         | 0        | 0       | 0        | 1     |
|   | Family has become larger and children are growing up.  | 1         | 0        | 0       | 0        | 1     |
|   | Has just been pretty stable  | 0         | 0        | 1       | 0        | 1     |
|   | Have had the same job for a while, but have had some recent large expenses.                              | 0         | 0        | 1       | 0        | 1     |
|   | He has been working steady but sometimes has been the only one working in the HH.                        | 0         | 1        | 0       | 0        | 1     |
|   | HH finances fluctuate. No jobs in community at present so HH income down, own health a little bad.       | 0         | 0        | 1       | 0        | 1     |
|   | High price of gas, need new snow machine, high price of groceries, water bills, etc.                     | 1         | 0        | 0       | 0        | 1     |
|   | High prices - everything is going up.  | 0         | 0        | 0       | 1        | 1     |
|   | Husband passed away, he brought the income into the family.  | 0         | 0        | 0       | 1        | 1     |
|   | Is getting better. The house now has a new heating system and a new boiler but needs remodeling.         | 0         | 1        | 0       | 0        | 1     |
|   | Jobs - prices are going up, store prices are high.   | 0         | 0        | 0       | 1        | 1     |
|   | Last 5 years up and down. Costs up (and 2 new kids) and income down -- job ended and no new one evident. | 0         | 0        | 1       | 0        | 1     |
|   | Prices are higher - short on everything. \$280 gas - \$10.00 gallon/60 gallons at whaling camp.          | 0         | 0        | 0       | 1        | 1     |
| Prices went up, didn't get any discounts from the stores, and prices were inflated. | 1  | 0         | 0        | 0       | 1        |       |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Respondent has had health problems. Plus he has had to take leave to visit relatives in poor health.  | 1         | 0        | 0       | 0        | 1     |
|       | Respondent is working part-time only.   | 1         | 0        | 0       | 0        | 1     |
|       |   | 0         | 0        | 1       | 0        | 1     |
|       |   | 0         | 1        | 0       | 0        | 1     |
|       | Some years it's worse.  | 0         | 0        | 0       | 1        | 1     |
|       | They can pay their bills, save some money, and have what they need.                                   | 0         | 1        | 0       | 0        | 1     |
|       | They do not have enough income, but he has finally swallowed his pride and has asked for social help. | 0         | 1        | 0       | 0        | 1     |
|       | Varies  | 0         | 0        | 0       | 1        | 1     |
|       | We started adopting and now have 5 adopted children.  | 1         | 0        | 0       | 0        | 1     |
|       | Wife - we plan what we want to do - budget out.   | 1         | 0        | 0       | 0        | 1     |
|       | Wife received a big raise. Respondent's income goes up and down, depending on the job and the pay.    | 0         | 0        | 1       | 0        | 1     |
|       | Will be laid off soon.  | 1         | 0        | 0       | 0        | 1     |
|       | Work has been steady and expenses have been the same.   | 0         | 1        | 0       | 0        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Explanations (coded) for Changes in Household Financial Situation (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Reasons for changes in household finances * Community | 27    | 35.1%   | 50      | 64.9%   | 77    | 100.0%  |

**B.3a Reasons for changes in household finances \* Community Crosstabulation**

|  |                          | Community |          |         |          | Total |
|--|--------------------------|-----------|----------|---------|----------|-------|
|  |                          | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| B.3a Reasons for changes in household finances | Family or health changes | 5         | 2        | 1       | 1        | 9     |
|  | Prices                   | 2         | 1        | 2       | 3        | 8     |
|  | Employment               | 4         | 1        | 1       | 0        | 6     |
|  | Wages                    | 1         | 2        | 1       | 0        | 4     |
| Total  |                          | 12        | 6        | 5       | 4        | 27    |

## **PART C: PARTICIPATION IN BOWHEAD WHALING**

## PART C: PARTICIPATION IN BOWHEAD WHALING

### Crosstabs: How Many Years on Whaling Crew (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C1 How many years on a whaling crew? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### C1 How many years on a whaling crew? \* Community Crosstabulation

|                                      |    | Community |          |         |          | Total |
|--------------------------------------|----|-----------|----------|---------|----------|-------|
|                                      |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C1 How many years on a whaling crew? | 1  | 1         | 0        | 0       | 0        | 1     |
|                                      | 5  | 1         | 0        | 0       | 0        | 1     |
|                                      | 6  | 0         | 0        | 0       | 1        | 1     |
|                                      | 10 | 0         | 0        | 1       | 0        | 1     |
|                                      | 14 | 0         | 0        | 0       | 1        | 1     |
|                                      | 17 | 1         | 0        | 0       | 0        | 1     |
|                                      | 18 | 1         | 0        | 0       | 2        | 3     |
|                                      | 20 | 0         | 1        | 0       | 4        | 5     |
|                                      | 21 | 1         | 0        | 0       | 0        | 1     |
|                                      | 23 | 1         | 0        | 0       | 0        | 1     |
|                                      | 24 | 0         | 0        | 0       | 1        | 1     |
|                                      | 25 | 1         | 1        | 0       | 2        | 4     |
|                                      | 26 | 1         | 1        | 0       | 0        | 2     |
|                                      | 27 | 1         | 0        | 0       | 2        | 3     |
|                                      | 28 | 1         | 0        | 1       | 3        | 5     |
|                                      | 30 | 1         | 0        | 0       | 0        | 1     |
|                                      | 31 | 0         | 0        | 0       | 2        | 2     |
|                                      | 32 | 1         | 0        | 0       | 3        | 4     |
|                                      | 33 | 1         | 0        | 0       | 0        | 1     |
|                                      | 34 | 2         | 0        | 0       | 2        | 4     |
|                                      | 35 | 2         | 0        | 0       | 1        | 3     |
|                                      | 37 | 1         | 0        | 2       | 0        | 3     |
|                                      | 38 | 1         | 0        | 0       | 0        | 1     |
|                                      | 40 | 2         | 2        | 0       | 0        | 4     |
|                                      | 41 | 1         | 0        | 0       | 0        | 1     |
|                                      | 43 | 2         | 0        | 0       | 1        | 3     |
|                                      | 44 | 2         | 0        | 0       | 0        | 2     |
|                                      | 46 | 1         | 0        | 0       | 0        | 1     |
|                                      | 47 | 2         | 0        | 1       | 0        | 3     |
|                                      | 50 | 4         | 0        | 1       | 0        | 5     |
| 51                                   | 1  | 1         | 1        | 0       | 3        |       |
| 52                                   | 2  | 0         | 0        | 0       | 2        |       |
| 54                                   | 0  | 1         | 0        | 0       | 1        |       |
| 60                                   | 1  | 0         | 0        | 0       | 1        |       |
| 70                                   | 1  | 0         | 0        | 0       | 1        |       |

### Crosstabs: How many years been captain of crew (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C2 How many years captain of own whaling crew? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### C2 How many years captain of own whaling crew? \* Community Crosstabulation

|  |    | Community |          |         |          | Total |
|--|----|-----------|----------|---------|----------|-------|
|  |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C2 How many years captain of own whaling crew? | 0  | 0         | 0        | 1       | 0        | 1     |
|  | 1  | 0         | 0        | 1       | 2        | 3     |
|  | 2  | 0         | 0        | 0       | 2        | 2     |
|  | 3  | 1         | 0        | 0       | 1        | 2     |
|  | 4  | 2         | 0        | 0       | 4        | 6     |
|  | 5  | 2         | 0        | 1       | 3        | 6     |
|  | 6  | 1         | 1        | 0       | 1        | 3     |
|  | 7  | 1         | 0        | 0       | 0        | 1     |
|  | 8  | 3         | 0        | 0       | 0        | 3     |
|  | 9  | 2         | 0        | 0       | 1        | 3     |
|  | 10 | 3         | 1        | 1       | 3        | 8     |
|  | 12 | 1         | 0        | 0       | 0        | 1     |
|  | 14 | 4         | 0        | 1       | 0        | 5     |
|  | 15 | 3         | 0        | 1       | 2        | 6     |
|  | 17 | 1         | 1        | 0       | 0        | 2     |
|  | 18 | 2         | 2        | 0       | 0        | 4     |
|  | 19 | 1         | 0        | 0       | 0        | 1     |
|  | 20 | 1         | 0        | 0       | 4        | 5     |
|  | 21 | 0         | 0        | 1       | 0        | 1     |
|  | 23 | 1         | 0        | 0       | 0        | 1     |
|  | 24 | 0         | 0        | 0       | 1        | 1     |
|  | 27 | 1         | 0        | 0       | 0        | 1     |
|  | 28 | 0         | 0        | 0       | 1        | 1     |
|  | 30 | 2         | 1        | 0       | 0        | 3     |
|  | 32 | 1         | 0        | 0       | 0        | 1     |
|  | 33 | 1         | 1        | 0       | 0        | 2     |
|  | 34 | 1         | 0        | 0       | 0        | 1     |
| 35   | 1  | 0         | 0        | 0       | 1        |       |
| 50   | 1  | 0         | 0        | 0       | 1        |       |
| 60   | 1  | 0         | 0        | 0       | 1        |       |
| Total  |    | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Captain this Year? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C2a Was a captain this year? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### C2a Was a captain this year? \* Community Crosstabulation

|                              |     | Community |          |         |          | Total |
|------------------------------|-----|-----------|----------|---------|----------|-------|
|                              |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C2a Was a captain this year? | Yes | 34        | 6        | 5       | 23       | 68    |
|                              | No  | 3         | 1        | 2       | 2        | 8     |
|                              | 99  | 1         | 0        | 0       | 0        | 1     |
| Total                        |     | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Last year one was a Captain? (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C2b If not a captain this year, last year that was a captain? * Community | 9     | 11.7%   | 68      | 88.3%   | 77    | 100.0%  |

### C2b If not a captain this year, last year that was a captain? \* Community Crosstabulation

|   |      | Community |          |         |          | Total |
|---|------|-----------|----------|---------|----------|-------|
|   |      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C2b If not a captain this year, last year that was a captain? | 1    | 0         | 0        | 0       | 1        | 1     |
|   | 5    | 0         | 0        | 0       | 1        | 1     |
|   | 98   | 1         | 0        | 0       | 0        | 1     |
|   | 1997 | 0         | 1        | 0       | 0        | 1     |
|   | 1999 | 0         | 0        | 0       | 1        | 1     |
|   | 2000 | 1         | 0        | 1       | 1        | 3     |
|   | 2003 | 1         | 0        | 0       | 0        | 1     |
| Total   |      | 3         | 1        | 1       | 4        | 9     |



### Crosstabs: How many on Crew? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C3 How many are on crew now? * Community | 74    | 96.1%   | 3       | 3.9%    | 77    | 100.0%  |

### C3 How many are on crew now? \* Community Crosstabulation

|                              |    | Community |          |         |          | Total |
|------------------------------|----|-----------|----------|---------|----------|-------|
|                              |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C3 How many are on crew now? | 2  | 0         | 0        | 0       | 3        | 3     |
|                              | 3  | 0         | 0        | 0       | 1        | 1     |
|                              | 4  | 1         | 0        | 0       | 4        | 5     |
|                              | 5  | 1         | 0        | 0       | 8        | 9     |
|                              | 6  | 2         | 1        | 1       | 7        | 11    |
|                              | 7  | 5         | 0        | 2       | 1        | 8     |
|                              | 8  | 5         | 0        | 2       | 1        | 8     |
|                              | 9  | 1         | 0        | 0       | 0        | 1     |
|                              | 10 | 6         | 0        | 2       | 0        | 8     |
|                              | 11 | 2         | 2        | 0       | 0        | 4     |
|                              | 12 | 5         | 0        | 0       | 0        | 5     |
|                              | 13 | 3         | 1        | 0       | 0        | 4     |
|                              | 14 | 2         | 1        | 0       | 0        | 3     |
|                              | 15 | 2         | 0        | 0       | 0        | 2     |
|                              | 16 | 1         | 0        | 0       | 0        | 1     |
|                              | 25 | 1         | 0        | 0       | 0        | 1     |
| Total                        |    | 37        | 5        | 7       | 25       | 74    |

### Crosstabs: Has Number of Crew Changed last 5 Years? (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C3a Has the number changed in the last 5 years? * Community | 74    | 96.1%   | 3       | 3.9%    | 77    | 100.0%  |

### C3a Has the number changed in the last 5 years? \* Community Crosstabulation

|   |            | Community |          |         |          | Total |
|---|------------|-----------|----------|---------|----------|-------|
|   |            | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C3a Has the number changed in the last 5 years? | Yes        | 19        | 1        | 6       | 6        | 32    |
|   | No         | 18        | 5        | 1       | 16       | 40    |
|   | Don't know | 0         | 1        | 0       | 1        | 2     |
| Total   |            | 37        | 7        | 7       | 23       | 74    |

### Crosstabs: Why Changes in Number of Crew? (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C3ai What changes have happened in crew size? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### C3ai What changes have happened in crew size? \* Community Crosstabulation

|   |   | Community |          |         |          | Total |
|---|---|-----------|----------|---------|----------|-------|
|   |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C3ai What changes have happened in crew size? | <b>No additional comments offered</b>   | 15        | 0        | 0       | 14       | 29    |
|   | "I have the best crew; we enjoy what we do. They spoil me-tell me to rest."   | 0         | 0        | 0       | 1        | 1     |
|   | Between 11-15 people - a few passed away. Two new crew members joined from a family that came from another village.   | 1         | 0        | 0       | 0        | 1     |
|   | Four in the fall, 6 - 8 in the spring.  | 0         | 0        | 0       | 1        | 1     |
|   | Added daughter  | 0         | 0        | 0       | 1        | 1     |
|   | Average number is 4 during the fall, 8 - 11 during the spring.  | 0         | 0        | 0       | 1        | 1     |
|   | BUT "no change" because there is NEVER an exact "expected" crew size. The crew size depends on how many other crews are going out and who asks to go along with respondent's crew. He says that he does not know how to say "no" if someone asks to go out with him. His crew can be 5 to 7 people and he never knows for sure until he goes out. There were 2 kids who wanted to go out last year, but they never asked him and thus stayed in NQT when they could have come along. :Never say "No." Talks a bit more and says crew number can be in the range or 4 to 8, and depends on who asks to go along. If he is only taking one boat the maximum # of people is 4 or 5. Minimum is 3 people per boat (need 3 to go out scouting for whales [although it has been done with a boat crew of 2]). People may be "left behind" in NQT if they are employed and need to stay to work, or decide on their own that they need to stay to work and earn money. | 0         | 0        | 1       | 0        | 1     |
|   | Changed boat to a better one.   | 1         | 0        | 0       | 0        | 1     |
|   | Crew got so large it was divided into two.  | 1         | 0        | 0       | 0        | 1     |

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Crew number can change from year-to-year, and average 7 to 9. It depends on a number of factors -- number of boats and space and cabin are two of them. One major change between 2002 and 2003 was that one of his brothers registered as a captain and formed his own crew for 2003. This resulted in a change of 2 crew members (his brother and one of his sons).   | 0         | 0        | 1       | 0        | 1     |
|  | Crew number does include the women involved.   | 1         | 0        | 0       | 0        | 1     |
|  | Crew, including men and women, goes up to 25 people. There is one new crew member. Jobs have changed.  | 1         | 0        | 0       | 0        | 1     |
|  | Decreased  | 3         | 0        | 0       | 0        | 3     |
|  | He says that the crew numbers are pretty much the same, by which he means that the pool of active crew members is about the same. His crew consists of mainly family members or whoever wants to jump on and he says that his nephews from NQT came over one year.   | 0         | 1        | 0       | 0        | 1     |
|  | Had a crew of 4 last year, his first year as a captain. This year will have 8. The total number depends on how well you recruit and changes each year. He wanted a larger crew than last year to provide more help. Last year, as his first year, he did not want to "steal" crew members from other crews.  | 0         | 0        | 1       | 0        | 1     |
|  | He has a big crew -- his entire family (all relatives in all HHs except for those formally on their own crews). Even the kids are part of the crew, even if too young to do anything or to have any responsibilities. At least 4 HHs and 18 people, maybe more. He limits who can go in the boat -- at most 5 or 6. For adults, whoever is not working and shows up can go out. They let the kids take turns going out, when there is room (generally 1 or 2 kids per trip). | 0         | 1        | 0       | 0        | 1     |
|  | His "average" or expected crew is 6, with a normal range of 4 to 8. He thinks that as many as 12 may ask to go and can be accommodated some how. He can take 8 at most on the boat but others could go out to Cross Island by other means, or help in Nuiqsut.   | 0         | 0        | 1       | 0        | 1     |

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | His crew is mostly family members. He will usually send 6 in the boat (4 minimum). He will try to change it around to give more people a chance to go out, but has found that the same people usually end up going out. [As with the other crews, there may be specific personnel changes from year-to-year, but the general pool of potential members and the organization of the crew are pretty similar from one year to the next]. | 0         | 1        | 0       | 0        | 1     |
|  | In some years more people join.  | 1         | 0        | 0       | 0        | 1     |
|  | In the fall I use 4-5 people, in the spring, 3-4 people. I have to make sure that the 4 individuals who have families get their share.   | 0         | 0        | 0       | 2        | 2     |
|  | Increased  | 4         | 0        | 0       | 0        | 4     |
|  | Increased - nephews have participated more meaningfully.   | 1         | 0        | 0       | 0        | 1     |
|  | Increased (crew number only includes the men involved -- many wives, daughters, and other women also participate).   | 1         | 0        | 0       | 0        | 1     |
|  | It is hard to say "no" when young guys ask to go out, but there is limited room on the boat and in the cabin. Having 2 boats would help. Some "regulars" may not go due to work or other commitments in town, so the number of expected crew members varies each year. Crew is mainly relatives. Crew is usually 6 or 7 (one boat, one cabin).   | 0         | 0        | 1       | 0        | 1     |
|  | Left Savoonga to live in Anchorage.  | 0         | 0        | 0       | 1        | 1     |
|  | More crew members joined - both male and female  | 1         | 0        | 0       | 0        | 1     |
|  | Number of crew varies each year and depends on how many want to go and other variables -- the number of boats among them. Last year the respondent did not actually go, but sent his boat with (and lent his equipment to) another captain so that he could whale.   | 0         | 0        | 1       | 0        | 1     |
|  | One in the group becomes employed or something.  | 0         | 0        | 0       | 1        | 1     |
|  | People come and go -- but my crew is a family-oriented enterprise.   | 1         | 0        | 0       | 0        | 1     |
|  | Respondent is in his eighties and has been on a crew since he was 12 or 13 years old. He became a captain when he was 17. His crew is his entire family (17 plus members). He recruits his family members because he trusts them.  | 1         | 0        | 0       | 0        | 1     |

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | <p>Respondent is thinking of forming his own crew. For his old captain, crew size was at least 10 to man the captains boats (typically this captain fielded 2 or 3 boats each year). An additional 10 people help with preparations and processing in Nuiqsut. If the respondent whales on his own, at least 11 members of his own family will participate, plus at least 9 other relatives in Nuiqsut for a total of 20. There is a significant overlap with his own captain -- at least 5 or 6 -- but this would not have a great effect upon either of them. Crew sizes vary every year anyway. Some people may just want to take a year off from whaling, and some may need to stay in the village and work. Some people may not have enough money to go whaling (either to buy needed items, or to pay bills while they are out whaling and thus not working), and others who do go out whaling may open up a wage job (even if only temporarily) for someone in the community who needs a job.</p> | 0         | 0        | 1       | 0        | 1     |
|  | <p>Respondent says that he always "keeps all the crew." Those who do not go out in the boat (and not everyone can go out in the boat) help with other tasks. The crew is composed mostly of family, cousins, and in-laws. This is a large pool of people, and they have hardly any crew members who are not related in this way. [The "default" is that anyone on those categories is a crew member -- unless they are an active member of another crew. Thus 11 is an approximate number and is the more active members of his crew. This number varies from year-to-year and is thus not exact, not could he be expected to give an exact figure.]</p>   | 0         | 1        | 0       | 0        | 1     |
|  | <p>Same crew husband had prior to death.</p>   | 0         | 0        | 0       | 1        | 1     |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Says he has 6 on his crew every year as he does not want to overload the boat. He may be counting only the boat crew and his wife, as there are others who help with his crew that he does not list. They are all shore support people; however, (and there would also be more people who help with butchering). [He is one of the few Kaktovik captains who focuses on the boat crew rather than the total crew, however.] It is almost certain that there are personnel changes from one year to the next BUT overall pool of potential crew members is pretty constant, as are people in the "skill" positions. His driver is an in-law who provides the boat (a major expense the captain thus avoids).   | 0         | 1        | 0       | 0        | 1     |
|  | See A8 for information on crew. Is mainly a family crew and crew size can vary -- even though he says "no changes" in the last 5 years. There have been no changes in the POOL of potential crew members and the organization of the crew, and maybe not in the senior ["skill position"] people BUT there have clearly been some changes in specific personnel from year-to-year. Appears to be a similar situation to whaling captain in HH4. More specific remarks from this respondent: Crew is 10 to 12. Most people are family members (siblings, children, in-laws). He has been asking which one wants to take over as captain, as he will be stepping down as an active captain at some point. He would then mainly help make bomb and stay home [and give advice when asked]. He might even still follow once in a while, to make sure that they are doing. | 0         | 1        | 0       | 0        | 1     |
|  | See end note block for C1-3. Respondent said that crew numbers change from year-to-year. He gave the specific example of when in 1970 or so there were too many crew members for the boat he was a crew member of, so that one of his brothers formed his own crew that year. Most of their siblings and direct relatives are considered members of this other crew.  | 0         | 1        | 0       | 0        | 1     |
|  | Some die, new ones come in, get replaced by young ones.   | 1         | 0        | 0       | 0        | 1     |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Some of respondent's crew has moved to another crew.  | 1         | 0        | 0       | 0        | 1     |
|       | There are more whaling crews - they can (now) buy the equipment to start their own crews.   | 1         | 0        | 0       | 0        | 1     |
|       | Up and down.  | 1         | 0        | 0       | 0        | 1     |
|       | Varies, depends on who wants to go.   | 0         | 0        | 0       | 1        | 1     |
|       | When someone does not show up the number goes down to 3 whaling crewmembers.  | 1         | 0        | 0       | 0        | 1     |
|       | Whoever wants to can hop on. Take them in the boat, girls too. Every year there are different crewmembers. My son, nephew, brothers, daughter, they are always there. | 0         | 0        | 0       | 1        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: What changes have occurred (coded)? (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| What changes have occurred? * Community | 48    | 62.3%   | 29      | 37.7%   | 77    | 100.0%  |

### What changes have occurred? \* Community Crosstabulation

|                             |                               | Community |          |         |          | Total |
|-----------------------------|-------------------------------|-----------|----------|---------|----------|-------|
|                             |                               | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| What changes have occurred? | Seasonal variations           | 0         | 0        | 1       | 4        | 5     |
|                             | Family changes                | 11        | 7        | 5       | 7        | 30    |
|                             | Changes in boats or equipment | 1         | 0        | 0       | 0        | 1     |
|                             | Changes in number of crew     | 11        | 0        | 1       | 0        | 12    |
| Total                       |                               | 23        | 7        | 7       | 11       | 48    |

**Crosstabs: Why have there been fluctuations in Size of Crew? (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C3aii Why changes have happened in crew size? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

**C3aii Why changes have happened in crew size? \* Community Crosstabulation**

|   |   | Community |          |         |          | Total |
|---|---|-----------|----------|---------|----------|-------|
|   |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C3aii txt                               | <b>No additional comments offered</b>   | 23        | 5        | 1       | 20       | 49    |
| Why changes have happened in crew size? | As nephews get older they start "following" with the crew into the ocean [for hunting marine mammals and then for whaling]. The crew is all direct family members. Some other young people may possibly also work as crew members [most often less direct relatives who for some reason could not hook up with another crew].   | 0         | 0        | 1       | 0        | 1     |
|   | Because of his big and fast boat. But his motor is broken and probably will not be fixed in time for whaling. Hence, his crew is only his "core" right now (4 or 5), but if he fixes the motor in time he expects his crew would be much larger.  | 0         | 0        | 1       | 0        | 1     |
|   | Because of the work responsibilities of crew and other matters.   | 1         | 0        | 0       | 0        | 1     |
|   | Cousins give a lot of excuses before they go.   | 0         | 0        | 0       | 1        | 1     |
|   | Depending on who registers as a captain and who wants to actually use his boat to whale, some captains may in effect be incorporating other whaler's boats into their crews for one or more years. Captains who do not go out for one reason or another may lend out their equipment -- but only in the most unusual of cases will this include boats and motors. Respondent figures on up to 5 crew member per boat. | 0         | 0        | 1       | 0        | 1     |
|   | Factors cited by respondent: better recruiting, need for more help, and his desire to help teach the younger generation how to whale in order to pass on the culture [last year's crew were all adults -- crew for 2004 would include several high school or younger people].   | 0         | 0        | 1       | 0        | 1     |
|   | Family members has passed away.   | 1         | 0        | 0       | 0        | 1     |
|   | Financial hardship is sinking in - as a result of declining revenues.   | 1         | 0        | 0       | 0        | 1     |



|   | Community |          |          |           | Total     |
|---|-----------|----------|----------|-----------|-----------|
|   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
| He says that the boat crew is the same every year -- his son is the co-captain and the driver, and he has a regular harpooner who is qualified to be a whaling captain if he desired but does not have the financial means or the desire to do so. He sometimes will go out in the boat, but no longer on a regular basis. He does not detail the rest of the boat crew or indicate the total number. [It is almost certain that the boat crew is NOT always the same other than for the driver and harpooner.] | 0         | 1        | 0        | 0         | 1         |
| I add people that grow up and want to whale.  | 0         | 0        | 0        | 1         | 1         |
| I want to give a chance to whoever wants to go out; I'll let them hop on. Everyone is treated equally.  | 0         | 0        | 0        | 1         | 1         |
| If a guy is working he sometimes cannot go out whaling, so that someone else would be needed for his spot. There has not been any problem recruiting people to go, as his own HH would be enough in terms of REQUIRED manpower. There are always more young guys.   | 0         | 0        | 1        | 0         | 1         |
| Just want to join.  | 1         | 0        | 0        | 0         | 1         |
| Lack of transportation on the south side of the island - limits who can go.   | 0         | 0        | 0        | 1         | 1         |
| More people want to be on the crew.   | 1         | 0        | 0        | 0         | 1         |
| More people want to join in order to receive a share of the food.   | 1         | 0        | 0        | 0         | 1         |
| One member moved to another crew.   | 1         | 0        | 0        | 0         | 1         |
| People come and ask to join.  | 1         | 0        | 0        | 0         | 1         |
| People get married, have families, start working, have health problems.   | 1         | 0        | 0        | 0         | 1         |
| People want to join.  | 1         | 0        | 0        | 0         | 1         |
| People want to join his crew and more young people are participating in whaling.  | 1         | 0        | 0        | 0         | 1         |
| Respondent says that it has always been like that. If 30 people go whaling [30 is not an unusual figure for the number of NQT whalers at Cross Island during any given season], their jobs will be filled by others in NQT who were not working.  | 0         | 0        | 1        | 0         | 1         |
| Snowmachines are broken, this is a problem.   | 0         | 0        | 0        | 1         | 1         |
| Some crew members have jobs and other family responsibilities.  | 1         | 0        | 0        | 0         | 1         |
| The driver and the harpooner are generally the same for all trips (captain is the driver) -- the others take turns. The general pool of crew members has remained the same, and the dynamics of crew membership based on family ties have remained the same.  | 0         | 1        | 0        | 0         | 1         |
| The relatives of some crew members made a new crew and the related crew members moved.  | 1         | 0        | 0        | 0         | 1         |
| They are willing to participate.  | 1         | 0        | 0        | 0         | 1         |
| To be safer, the other boat was not stable.   | 1         | 0        | 0        | 0         | 1         |
| <b>Total</b>  | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

**Crosstabs: Why changes in crew sizes (coded) [WC] All Communities**

|                                       | Cases |         |         |         |       |         |
|---------------------------------------|-------|---------|---------|---------|-------|---------|
|                                       | Valid |         | Missing |         | Total |         |
|                                       | N     | Percent | N       | Percent | N     | Percent |
| Why changes in crew sizes * Community | 32    | 41.6%   | 45      | 58.4%   | 77    | 100.0%  |

**Why changes in crew sizes (coded) \* Community Crosstabulation**

|                           |                           | Community |          |         |          | Total |
|---------------------------|---------------------------|-----------|----------|---------|----------|-------|
|                           |                           | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Why changes in crew sizes | Family circumstances      | 2         | 1        | 1       | 3        | 7     |
|                           | Equipment or boat changes | 0         | 1        | 1       | 2        | 4     |
|                           | Other obligations         | 5         | 0        | 1       | 1        | 7     |
|                           | Individual choices        | 9         | 0        | 2       | 2        | 13    |
|                           | Financial constraints     | 1         | 0        | 0       | 0        | 1     |
| Total                     |                           | 17        | 2        | 5       | 8        | 32    |

**Crosstabs: Has number of Bowhead Whales Struck & Landed Changed in last 5 Years? (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C4 During the past 5 years, how has the number of Bowhead struck and landed changed? * Community | 68    | 88.3%   | 9       | 11.7%   | 77    | 100.0%  |

**C4 During the past 5 years, how has the number of Bowhead struck and landed changed? \* Community Crosstabulation**

|  |                   | Community |          |         |          | Total |
|--|-------------------|-----------|----------|---------|----------|-------|
|  |                   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C4 During the past 5 years, how has the number of Bowhead struck and landed changed? | Increased         | 6         | 0        | 0       | 8        | 14    |
|  | Remained the same | 17        | 7        | 7       | 7        | 38    |
|  | Decreased         | 14        | 0        | 0       | 2        | 16    |
| Total  |                   | 37        | 7        | 7       | 17       | 68    |

## Crosstabs: Why Changes in Bowhead Harvests (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C4a All of the reasons for changes in Bowhead harvest * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### C4a All of the reasons for changes in Bowhead harvest \* Community Crosstabulation

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C4a txt All of the reasons for changes in Bowhead harvest                                  | <b>No additional comments offered</b>   | 11        | 0        | 0       | 10       | 21    |
|  | Can't say (if it's increased or decreased) because some years cannot go out due to weather; weather is the determinant. In the fall, there seems to be more whales, migration is early.                       | 0         | 0        | 0       | 1        | 1     |
|  |   | 1         | 0        | 0       | 0        | 1     |
|  | Barrow is different because we get the whales coming and going - the whale population has increased.  | 1         | 0        | 0       | 0        | 1     |
|  | Captains are careless.  | 1         | 0        | 0       | 0        | 1     |
|  | Constrained by the quota -- can ask for additional strikes but generally NQT does not.  | 0         | 0        | 1       | 0        | 1     |
|  | Crews are more conscious of what they are doing. Also, there are good harpooners.   | 1         | 0        | 0       | 0        | 1     |
|  | Crews have been going out earlier (April).  | 1         | 0        | 0       | 0        | 1     |
|  | Crews start using outboard motors to hunt whales too early in the Spring.   | 1         | 0        | 0       | 0        | 1     |
|  | Decreased in spring - early migration - the first pod goes by before the crews are ready to go out, due to poor ice conditions, may be too windy or foggy.  | 1         | 0        | 0       | 0        | 1     |
|  | Depends on ice conditions -- decreased in 2004.   | 1         | 0        | 0       | 0        | 1     |
|  | Depends on migration. Some years we don't see any whales, nowadays it is windy. Caught 0 in spring, 3 in the fall. Next year, we go out the first part of March. We used to go out the first of April to May. | 0         | 0        | 0       | 1        | 1     |
|  | Depends on weather - cannot tell because of weather.  | 0         | 0        | 0       | 1        | 1     |
|  | Due to weather and ice conditions. Young ice is not thick enough, get holes in the ice, we have to be careful not to fall right through. It is not safe to stay.  | 1         | 0        | 0       | 0        | 1     |
|  | Fall increased.   | 0         | 0        | 0       | 1        | 1     |
|  | Going up and down because of changing ice conditions in the spring. Whales are going further out due to disturbance from ships doing research in the Bering Sea and Arctic Ocean.                             | 1         | 0        | 0       | 0        | 1     |
| He did not want to give any reasons for his answer [probably because "why" is so obvious]. | 0   | 1         | 0        | 0       | 1        |       |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | The number fluctuates with ice and weather conditions.  | 1         | 0        | 0       | 0        | 1     |
|  | Ice condition - weather warming up - open lead.   | 1         | 0        | 0       | 0        | 1     |
|  | In the fall we get more.  | 0         | 0        | 0       | 1        | 1     |
|  | In the fall, they are getting whale a quarter mile away offshore. Hunting whales from the beach is a new thing.   | 0         | 0        | 0       | 1        | 1     |
|  | In the spring it's the weather. In the fall, we are starting to catch whales on the north side of the island (didn't happen before).  | 0         | 0        | 0       | 2        | 2     |
|  | In the spring, they don't get enough whales, the weather is effecting climate change.   | 1         | 0        | 0       | 0        | 1     |
|  | Increased in terms of fall whaling. Spring whaling has decreased; weather has played a major role, averaging 5-7 days for spring whaling.   | 0         | 0        | 0       | 1        | 1     |
|  | Mostly weather conditions and ice conditions - these are the problems.  | 0         | 0        | 0       | 1        | 1     |
|  | Never get the quota - 1-3 whales; weather never cooperates.   | 0         | 0        | 0       | 1        | 1     |
|  | NQT whalers stay within the quota, pretty much, which caps the number taken. NQT whalers have very few struck and lost whales.  | 0         | 0        | 1       | 0        | 1     |
|  | Practice and experience of crews has increased.   | 1         | 0        | 0       | 0        | 1     |
|  | Quota caps the harvest, and Kaktovik whalers almost always fill the quota.  | 0         | 1        | 0       | 0        | 1     |
|  | Quota caps the harvest, and they usually fill the quota. How long it takes can vary from year-to-year. Last year (2003) they had bad weather. The first whale was struck and then sank. The weather then turned very bad and they had to wait for a week before they could go out and look for it. They found it and brought it in. Usually they butcher the 1st whale and divide it up before they go out for the 2nd and so on. If there is ice, harvest may be more difficult or even prevented altogether [whales are harder to see, more difficult to approach, and can more easily escape by diving and swimming under the ice.] When there is drilling to the east there have been years with no harvest because the whales were diverted too far out from the shore. Even when conditions are good, if there is lots of ice and it is getting dark, Kaktovik whalers will call a cease fire until the next day. [In general Kaktovik Whaling Captains Association rules have a cutoff time after which a captain should not strike a whale for the first time -- a whale that has already been struck will of course continue to be followed, killed and towed in even after this cutoff time.] | 0         | 1        | 0       | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Quota caps the take and NQT whalers have few struck and lost [this captain said "never" but that is not quite true].   | 0         | 0        | 1       | 0        | 1     |
| Quota caps what we can catch, and Kaktovik usually catches all 3 whales of the quota. Most of the time the quota can be filled pretty quick [in a relatively short period of time], BUT last year the first whale struck sank and was not found until several days later. It sank when they first struck it. It had stayed underwater too long then and drank water, so that it lost buoyancy and it sank. | 0         | 1        | 0       | 0        | 1     |
| Quota puts a cap on the harvest, and Kaktovik has landed 100% of quota for 10 or 12 years. Quota of 3 whales is plenty for the village. Kaktovik whalers know how to work together well.   | 0         | 1        | 0       | 0        | 1     |
| Quota serves as a cap, and NQT whalers do not have many struck and lost whales.  | 0         | 0        | 1       | 0        | 1     |
| Spring whaling is poor because of ice changes. Ice conditions are unfavorable.   | 0         | 0        | 0       | 1        | 1     |
| Stayed the same because of quota.  | 1         | 0        | 0       | 0        | 1     |
| The crews are working together.  | 0         | 0        | 0       | 1        | 1     |
| The ice to the west was too far out and made the whales go out further in the ocean.   | 1         | 0        | 0       | 0        | 1     |
| The lead kept changing and the whales went by.   | 1         | 0        | 0       | 0        | 1     |
| The new projectile that has been given to us by AEWC - the superbomb - 10 yrs it increased the kill efficiency. Training (on the superbomb) demonstrates where to strike for maximum efficiency. We train the whaling captains to identify the anatomy.  | 1         | 0        | 0       | 0        | 1     |
| The quota caps the harvest and Kaktovik whales can usually fill the quota. There was only one time, the respondent said, when they did not get anything. This was because there was a big vessel anchored "this side" of the Jago River drilling in the open water.  | 0         | 1        | 0       | 0        | 1     |
| The quota caps the harvest, and NQT whalers have few struck and lost whales. The quota did increase from 3 to 4 in 1997 or 1998.   | 0         | 0        | 1       | 0        | 1     |
| The quota limits the number of strikes, and NQT whalers have few struck and lost whales. When there is thick ice around they lose whales more often, but since the ice stopped coming up they have caught more whales more often.  | 0         | 0        | 1       | 0        | 1     |
| The season is getting shorter and shorter every year.  | 0         | 0        | 0       | 1        | 1     |
| The weather holds us back, not good to go out.   | 0         | 0        | 0       | 1        | 1     |
| There has been a better struck/landed ratio because of strict IWC regulations.   | 1         | 0        | 0       | 0        | 1     |
| They are doing better each time.   | 1         | 0        | 0       | 0        | 1     |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | They only take what they think they need, and the quota for Kaktovik (3 whales/year) pretty much reflects the level of community need. The community is not really growing that much so 3 or 4 whales is about right. | 0         | 1        | 0       | 0        | 1     |
|       | Use of new bomb.  | 1         | 0        | 0       | 0        | 1     |
|       | Varies yearly with conditions. What we don't catch in the Spring, we make up in the Fall.   | 1         | 0        | 0       | 0        | 1     |
|       | Various things will change, but NQT whalers almost always fill their quota -- and the quota limits what they can harvest. NQT whalers have become better, boats are faster, and so on.                                | 0         | 0        | 1       | 0        | 1     |
|       | Weather - ice conditions, water current is getting stronger and more dangerous. The weather is unpredictable. Years ago the ice was 8-12 feet thick, now it is 3-4 feet thick.  | 1         | 0        | 0       | 0        | 1     |
|       | Weather condition.  | 1         | 0        | 0       | 0        | 1     |
|       | Weather factors.  | 1         | 0        | 0       | 0        | 1     |
|       | Weather, offshore seismic activities and other oil-related activities, ice breakers and general noise from ships, airplanes, and helicopters.   | 1         | 0        | 0       | 0        | 1     |
|       | Whale quota.  | 1         | 0        | 0       | 0        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Explanations (coded) for changes in Bowhead Harvest (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Explanations for changes in Bowhead Whaling * Community | 52    | 67.5%   | 25      | 32.5%   | 77    | 100.0%  |

### C.4a Explanations for changes in Bowhead Whaling \* Community Crosstabulation

|  |                                     | Community |          |         |          | Total |
|--|-------------------------------------|-----------|----------|---------|----------|-------|
|  |                                     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.4a Explanations for changes in Bowhead Whaling | Crews or leadership                 | 5         | 0        | 0       | 1        | 6     |
|  | Technological changes/Quota         | 2         | 6        | 7       | 1        | 16    |
|  | Climate change/Weather              | 14        | 0        | 0       | 7        | 21    |
|  | Development activities              | 4         | 0        | 0       | 0        | 4     |
|  | Oil and gas activities              | 1         | 0        | 0       | 0        | 1     |
|  | Increase in (Fall season) from past | 0         | 0        | 0       | 6        | 6     |
| Total  |                                     | 26        | 6        | 7       | 15       | 54    |

### Crosstabs: Participates in Fall Whaling (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C5 Participates in Fall Whaling? * Community | 75    | 97.4%   | 2       | 2.6%    | 77    | 100.0%  |

### C5 Participates in Fall Whaling? \* Community Crosstabulation

|                                  |     | Community |          |         |          | Total |
|----------------------------------|-----|-----------|----------|---------|----------|-------|
|                                  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C5 Participates in Fall Whaling? | Yes | 30        | 7        | 7       | 24       | 68    |
|                                  | No  | 7         | 0        | 0       | 0        | 7     |
| Total                            |     | 37        | 7        | 7       | 24       | 75    |

### Crosstabs: Have Bowhead Fall Migration Paths Changed in last 5 years? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C5a Have fall migration paths of Bowhead Whales changed over past 5 years? * Community | 69    | 89.6%   | 8       | 10.4%   | 77    | 100.0%  |

### C5a Have fall migration paths of Bowhead Whales changed over past 5 years? \* Community Crosstabulation

|  |                       | Community |          |         |          | Total |
|--|-----------------------|-----------|----------|---------|----------|-------|
|  |                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C5a Have fall migration paths of Bowhead Whales changed over past 5 years? | Changed significantly | 19        | 2        | 3       | 8        | 32    |
|  | Remained the same     | 17        | 5        | 3       | 12       | 37    |
| Total  |                       | 36        | 7        | 6       | 20       | 69    |

**Crosstabs: Reasons for Changes in Fall Migration Paths (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C5b All of the reasons for changes in fall migration paths? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

**C5b All of the reasons for changes in fall migration paths? \* Community Crosstabulation**

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C5b All of the reasons for changes in fall migration paths? | <b>No additional comments offered</b>  | 12        | 0        | 0       | 8        | 20    |
|   | Three years ago they started coming on to the northern side of the island; whales come in early.   | 0         | 0        | 0       | 1        | 1     |
|   | Activities such as offshore oil and gas have changed the whales' migration pattern and the whales' behavior. More industry activity means more and greater whale diversion. Respondent cited examples of activity such as seismic, exploration, drilling (during open water) -- Hammerhead, Kuuvlum (the CID unit). Respondent says that they year when actual drilling occurred that NQT whalers had to go far to the north to scout and find whales. Respondent said that as recently as 2000/01 the oil companies did some open water seismic work. | 0         | 0        | 1       | 0        | 1     |
|   | Barges going to Prudhoe may change the path.   | 1         | 0        | 0       | 0        | 1     |
|   | Coming in closer.  | 0         | 0        | 0       | 1        | 1     |
|   | Currents change - polar studies show whales follow; migration is later in the fall than normal, noticed the difference in the last 5-10 years, the ice is thawing early and freezing late.   | 1         | 0        | 0       | 0        | 1     |
|   | Depends on whales - it's different every year.   | 0         | 0        | 0       | 1        | 1     |
|   | Did not really want to choose "change" or "no change." Respondent said that the migration is essentially the same from year-to-year, but can be diverted by natural and artificial factors -- that each year NQT find whales in almost the same places BUT that each year is different. Some years they need to go out further to find whales (but in the same general direction). If there are activities such as barges hauling fuel to Kaktovik, oil and gas seismic, etc. the whale migration will be deflected.                                   | 0         | 0        | 1       | 0        | 1     |
|   | Don't know   | 0         | 0        | 0       | 1        | 1     |



|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Each year is different depending on offshore activity such as seismic, oil rig and barge activity.  | 1         | 0        | 0       | 0        | 1     |
| Essentially the same but the migration can be affected by industry activities – (see previous answer). Respondent repeated the sister/wind warning story again.   | 0         | 1        | 0       | 0        | 1     |
| Getting more whales in the fall because they come in closer to the shore.   | 0         | 0        | 0       | 1        | 1     |
| Has changed depending on offshore human activity.   | 1         | 0        | 0       | 0        | 1     |
| He said that each year it seems like the whales go a little farther out offshore -- some of them, anyway. Some are still close to shore, where they have always been. There has hardly been any ice the last few years, and he suggests that the lack of ice may be why some whales are going farther offshore. There has been no ice nearby. | 0         | 1        | 0       | 0        | 1     |
| Ice conditions have changed; as a result, crews have to go out farther.   | 1         | 0        | 0       | 0        | 1     |
| Ice conditions to the west.   | 1         | 0        | 0       | 0        | 1     |
| In between, changed significantly and remained essentially the same. Offshore oil development activities have disrupted route.  | 1         | 0        | 0       | 0        | 1     |
| In the east whales have been close to shore because offshore oil activity has stopped.  | 1         | 0        | 0       | 0        | 1     |
| In the last 30 years, there are now planes, boats, etc. In the past, people went to the Point and waited for the whales. They didn't have to go 15-20 miles off shore, at that time whales traveled right to the point.   | 1         | 0        | 0       | 0        | 1     |
| Increase in the number of whales. More new whales, more and more yearlings (young).   | 0         | 0        | 0       | 1        | 1     |
| Increasing in number.   | 0         | 0        | 0       | 1        | 1     |
| Last fall it was different. Migration was further to the north than usual. It was 25 miles further than normal.   | 1         | 0        | 0       | 0        | 1     |
| Longer delay in opening of season. When hunt begins water is rougher than in summer months.   | 1         | 0        | 0       | 0        | 1     |
| Migration route changes when there are activities east of Cross Island. One season they had to look for whales 35 miles NW of Cross Island before they could find any (due to oil and gas activities). Since such activities east of Cross Island have been curtailed, the migration has been pretty much the same and as expected.           | 0         | 0        | 1       | 0        | 1     |
| More activities within Barrow; (i.e., Coast Guard, commercial tug boats, and offshore drilling).  | 1         | 0        | 0       | 0        | 1     |
| More whales during the fall.  | 1         | 0        | 0       | 0        | 1     |
| More whales in the fall, more abundance of food in the fall, climate change.  | 0         | 0        | 0       | 1        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Never used to see whales in the fall, started 10 years ago for the first time.  | 0         | 0        | 0       | 1        | 1     |
| Noise disturbance from offshore drilling and construction of islands has caused whales to go further out. They can be pursued with outboard motor boats but only on calm days. These motorboats can also contribute to the noise disturbance. His crew had to go out 26 miles to strike a whale. It took 10 hrs to tow it in. Up to 6 boats may come together to tow a whale in as quickly as possible.   | 1         | 0        | 0       | 0        | 1     |
| Noise pollution from seismic activity, ship traffic, etc.   | 1         | 0        | 0       | 0        | 1     |
| Population is growing - we see more whales.   | 0         | 0        | 0       | 1        | 1     |
| Respondent did not want to say "change" or "no change" because he is not sure what is meant by "change" in the question. He does state that when Endicott causeway and development went in, the whales went farther out. When the oil companies do seismic in the area the migration changes rapidly and the whales went way out from Cross Island. When there is no seismic activity in the area, whales come very close to Cross Island during their migration.   | 0         | 0        | 1       | 0        | 1     |
| Seeing a lot more whales in the fall.   | 0         | 0        | 0       | 1        | 1     |
| Seismic activity changes the path that the whales take -- it makes them go out much farther. He thinks there may be some drilling this summer, maybe. He also talks about the agreement between the whalers and the oil companies [and the researchers involved in the most recent Whale Feeding Study] whereby after the Kaktovik whalers get a whale and during the period when they are onshore for a few days butchering and dividing it the oil companies could work for a few days -- and then when the whalers were ready to go out again the oil companies would hold up their work again until another whale was taken. Respondent said that this worked for both the whalers and the oil companies. He also said that since Kaktovik people have started to whale again that the oil companies have started to listen to them (the whalers). They usually just wait until the whalers fill the quota [as this makes for a faster whaling season and means that they do not have to stop and start, and have idle periods, as much]. The agreement between the whalers and the oil companies is negotiated through the AEW. Respondent says that the whalers still need to obtain observers on all industry boats and rigs during industry activities. | 0         | 1        | 0       | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Seismic activity. Since they started drilling, since oil drilling in Prudhoe bay, this pushed whales farther out.  | 1         | 0        | 0       | 0        | 1     |
| Starting to see whales here now, never used to see the whales off Savoonga.  | 0         | 0        | 0       | 1        | 1     |
| The ice is very late in the fall. Earth break up / warm up in April. Came back early from camp because the ice broke up early.   | 0         | 0        | 0       | 1        | 1     |
| The last time the migration was significantly different was in 1995 or 1996, when the whales went significantly farther offshore than normal. Otherwise the whales have always been 3 to 15 miles offshore or so.  | 0         | 1        | 0       | 0        | 1     |
| The migration did change when there were seismic crews out in the area, but for the last five years it has been okay. Ice conditions have been good [not too much ice] and the only problem has been weather [stormy and fog]. If there is no [industry] activity there is no real problem with finding whales [or change in the whale migration pattern] near Kaktovik. The whales are not far out in a "normal" year, and are found in the same places every year [unless disturbed by industry activities]. | 0         | 1        | 0       | 0        | 1     |
| The migration is pretty much the same when things are normal. When there are [industry] activities, the whales change their migration route -- they get "spooky" and swim farther out from shore. They are harder to approach and surface quite a few times in a rush to dive [do not stay on the surface as much as they normally would].   | 0         | 1        | 0       | 0        | 1     |
| The migration path has been the same ever since the drilling rig to the east stopped drilling. When this rig was active the whales went 15 miles out [note that most other sources say 30 miles]. Normally, respondent says whales can be as close as 1 mile offshore.   | 0         | 1        | 0       | 0        | 1     |
| The ocean has considerably warmed up and they came earlier last year.  | 1         | 0        | 0       | 0        | 1     |
| The only difference is that the migration is a little further out (offshore) than in the past. He thinks this is due to "too much activity going on in the ocean."   | 0         | 0        | 1       | 0        | 1     |
| The whales are going farther offshore -- 15 to 20 miles. As a result crews are no longer hunting in their usual areas, which were a maximum of 5 miles from shore. The whales have been disturbed by offshore industrial activity and vessel traffic which create noise disturbance.   | 1         | 0        | 0       | 0        | 1     |
| The whales come later now.   | 0         | 0        | 0       | 1        | 1     |
| They are increasing in the fall - more than they used to see.  | 0         | 0        | 0       | 1        | 1     |

|   | Community |          |          |           | Total     |
|---|-----------|----------|----------|-----------|-----------|
|   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
| This will be her first whale.   | 0         | 0        | 0        | 1         | 1         |
| Traveled a little further out than in past years.   | 1         | 0        | 0        | 0         | 1         |
| Unless there is OCS activity or a man-made drilling platform.   | 1         | 0        | 0        | 0         | 1         |
| Used to be colder. The migration is starting early because water is warmer due to climate change.   | 1         | 0        | 0        | 0         | 1         |
| Weather, offshore seismic activities and other oil-related activities, ice breakers and general noise from ships, airplanes, and helicopters.   | 1         | 0        | 0        | 0         | 1         |
| Whales are further out. Wainwright crews started using outboards a few years ago and since then the whales have been spooked. Also, maybe the environment is changing.  | 1         | 0        | 0        | 0         | 1         |
| Whales are now closer to Cross Island than they have been in the recent past. This is a resumption of the "normal" or expected pattern observed from the historical past. Industrial activities such as seismic exploration had pushed the migration further out than the normal pattern, but now that such activity has been ended for several years the whales have resumed their normal migration route. | 0         | 0        | 1        | 0         | 1         |
| Whales are out further, a lot of whales are traveling farther out than before. 5 years ago, they would go right off the point, now it is 20-30 miles. Too noisy, there has been a big change since seismic activity.  | 1         | 0        | 0        | 0         | 1         |
| When I first started, there were hardly any whales, and now there are a lot. There were hardly any, never used to see bowheads passing by.  | 0         | 0        | 0        | 1         | 1         |
| When seismic activity is conducted they go out further. When this activity stops they come closer.  | 1         | 0        | 0        | 0         | 1         |
| When there is seismic activity the whales go further out. When it stops they come in close as usual.  | 1         | 0        | 0        | 0         | 1         |
| When there was activity (seismic or drilling) to the east of Cross Island, the whales were diverted farther away from Cross Island. As soon as this activity stopped (or rather, the year after it stopped) whales once again came close to Cross Island -- some within a mile. This is the normal pattern -- that pattern which was historically observed by whalers since at least the 1920s and before.  | 0         | 0        | 1        | 0         | 1         |
| <b>Total</b>  | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

**Crosstabs: Explanations (coded) for changes in Fall Migration Paths (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| Explanation categories for changes in Fall migration * Community | 55    | 71.4%   | 22      | 28.6%   | 77    | 100.0%  |

**C.5b Explanation categories for changes in Fall migration \* Community Crosstabulation**

|   |                                  | Community |          |         |          | Total |
|---|----------------------------------|-----------|----------|---------|----------|-------|
|   |                                  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.5b Explanation categories for changes in Fall migration | Seismic/Development: Oil and Gas | 14        | 4        | 4       | 0        | 22    |
|   | Climate                          | 6         | 1        | 0       | 3        | 10    |
|   | General Human Development        | 2         | 0        | 1       | 0        | 3     |
|   | Observation without Comment      | 4         | 1        | 2       | 14       | 21    |
| Total   |                                  | 26        | 6        | 7       | 17       | 56    |

**Crosstabs: Participate in Spring Whaling (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C.6 Participates in Spring Whaling? * Community | 74    | 96.1%   | 3       | 3.9%    | 77    | 100.0%  |

**C.6 Participates in Spring Whaling? \* Community Crosstabulation**

|                                     |     | Community |          |         |          | Total |
|-------------------------------------|-----|-----------|----------|---------|----------|-------|
|                                     |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.6 Participates in Spring Whaling? | Yes | 35        | 1        | 4       | 22       | 62    |
|                                     | No  | 1         | 6        | 3       | 2        | 12    |
| Total                               |     | 36        | 7        | 7       | 24       | 74    |

**Crosstabs: Have Bowhead Spring Migration Paths Changed? (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C6a Have spring migration paths of Bowhead Whales changed over past 5 years? * Community | 64    | 83.1%   | 13      | 16.9%   | 77    | 100.0%  |

**C6a Have spring migration paths of Bowhead Whales changed over past 5 years? \* Community Crosstabulation**

|  |                       | Community |          |         |          | Total |
|--|-----------------------|-----------|----------|---------|----------|-------|
|  |                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C6a Have spring migration paths of Bowhead Whales changed over past 5 years? | Changed significantly | 20        | 0        | 0       | 6        | 26    |
|  | Remained the same     | 17        | 1        | 4       | 16       | 38    |
| Total  |                       | 37        | 1        | 4       | 22       | 64    |

### Crosstabs: Reasons Spring Migration Paths Have Changed (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C6b All of the reasons for changes in spring migration paths? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### C6b All of the reasons for changes in spring migration paths? \* Community Crosstabulation

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C6b All of the reasons for changes in spring migration paths? | <b>No additional comments offered</b>  | 12        | 1        | 2       | 13       | 28    |
|   | Again, the only potential problem is seismic activity -- whale migration remains the same as long as there is no local disturbance like seismic activity. The only problem over in Barrow in the spring is that the water is too warm and the new ice is too thin. There has been no old [stable] ice for the last 5 years, and there have not even been any large ice bergs -- only young ice. The whales have not really changed. Ice conditions and the currents determine where the whales are found and when. | 0         | 1        | 0       | 0        | 1     |
|   | Ambivalent and not too sure. At first says that he thinks it is changing, because Barrow is growing -- but he is not sure. Then he thinks a bit more and says that it depends on Mother Nature, and is pretty much the same as it has always been -- that it is variable and is different from year-to-year.   | 0         | 0        | 1       | 0        | 1     |
|   | As a result of climate change migration has started earlier.   | 1         | 0        | 0       | 0        | 1     |
|   | Climate has changed.   | 1         | 0        | 0       | 0        | 1     |
|   | Decreased a little. Some years they decrease, some they don't.   | 0         | 0        | 0       | 1        | 1     |
|   | Depends on the ice.  | 1         | 0        | 0       | 0        | 1     |
|   | Depends on the main shore ice, (i.e., if the lead is farther out or in), but no significant changes.   | 1         | 0        | 0       | 0        | 1     |
|   | Depends on weather.  | 0         | 0        | 0       | 1        | 1     |
|   | Due to ice conditions. They follow the lead where there is open water. We go way out in open water where it is rough.  | 1         | 0        | 0       | 0        | 1     |
|   | Global warming (climate change) has led to warmer temperatures and changing ice conditions. Ocean currents are faster.   | 1         | 0        | 0       | 0        | 1     |
|   | Global warming causes ice to go out earlier. As a result, whales pass by before crews go out on the ice.   | 1         | 0        | 0       | 0        | 1     |
|   | Hard to say -- has not whaled in the spring for over 5 years.  | 0         | 0        | 1       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| He and his family travel to Barrow by snowmachine in the spring to whale -- but the most recent year they did so was in 2000. He says that ice conditions really determine the spring migration route, and that ice conditions are changing. The ice is not as thick as is used to be, which he attributed to global warming.             | 0         | 0        | 1       | 0        | 1     |
| Research ships can affect the number of whales on a particular path.  | 1         | 0        | 0       | 0        | 1     |
| Ice goes out more quickly now, less whales in spring.   | 0         | 0        | 0       | 1        | 1     |
| Ice is not as thick, more open leads, whales are further out and are coming earlier (March).  | 1         | 0        | 0       | 0        | 1     |
| It might change if there were oil and gas activities or if ice conditions changed. Spring whaling really depends on the ice conditions.   | 0         | 0        | 1       | 0        | 1     |
| More sightings - there are now 3 pulses of whales. The small come first, then the second, which are larger, then females and calves. Beluga always come first.  | 0         | 0        | 0       | 1        | 1     |
| Not applicable  | 0         | 4        | 0       | 0        | 4     |
| Not applicable -- last whaled in the spring in 1986.  | 0         | 1        | 0       | 0        | 1     |
| Outboard motor use has increased in the past 6-7 years. Also, the WCs voted for an early whale hunt start date.   | 1         | 0        | 0       | 0        | 1     |
| Pack ice going too far north.   | 1         | 0        | 0       | 0        | 1     |
| Research ships/ice breakers have changed the paths.   | 1         | 0        | 0       | 0        | 1     |
| Seems like more are passing on the east; didn't see much this year, but have seen a lot on the east side. Camp is on the south. Migration used to go to the south and west but this is changing.  | 0         | 0        | 0       | 1        | 1     |
| Smaller whales come in first, larger ones after.  | 0         | 0        | 0       | 1        | 1     |
| Some years you see lots of whales.  | 0         | 0        | 0       | 1        | 1     |
| The ice conditions have played a factor (tracking whales traveling from point to point). "In the past few years, the ice has gotten a lot younger than in the past" (refers to ice getting thinner). The ice moves toward the point, the point holds the older ice. The coast is eroding, making different points where ice is piling up. | 1         | 0        | 0       | 0        | 1     |
| The ice has changed. The old anchored ice is missing. The early warm up leads to ice break-up. The whales are coming earlier (mid-April). Both human activity and natural causes (global warming) are responsible.  | 1         | 0        | 0       | 0        | 1     |
| The migration pattern is the same but the time they migrate has changed, the whales are migrating very early - one month earlier than before.   | 0         | 0        | 0       | 1        | 1     |

|              |   | Community |          |          |           | Total     |
|--------------|---|-----------|----------|----------|-----------|-----------|
|              |   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | The question assumes change over 5 years. 5 years does not tell the whole story, if you restrict it to that. For example, it was 7 or 8 years ago that a rig was put up, there were big changes from 10 years ago, but not necessarily within the last 5 years. | 1         | 0        | 0        | 0         | 1         |
|              | The whales are further offshore more often. The main migration passes by in May, out side the reach of crews. As a result, crews spend more idle days.  | 1         | 0        | 0        | 0         | 1         |
|              | The whales arrive 1 week earlier than the normal due date, the width of the route is changing. Normally there is an opening. From Barrow there is a big bubble so the whales have a big open lead where they can go. The whales are more spread out.            | 1         | 0        | 0        | 0         | 1         |
|              | The whales come earlier every year.   | 1         | 0        | 0        | 0         | 1         |
|              | The whales come earlier.  | 1         | 0        | 0        | 0         | 1         |
|              | The whales have been farther away from the shore ice -- whalers in Wainwright started using outboard motors during the spring hunt.   | 1         | 0        | 0        | 0         | 1         |
|              | The whales know the path they need to take -- each animal knows.  | 0         | 0        | 1        | 0         | 1         |
|              | They are coming earlier than usual; mostly coming in March.   | 0         | 0        | 0        | 1         | 1         |
|              | They are gradually changing - the sun would rise and melt all the snow; can't get back to snow machines.  | 0         | 0        | 0        | 1         | 1         |
|              | They are migrating earlier. It is the same pattern, same whales along with the Belugas.   | 1         | 0        | 0        | 0         | 1         |
|              | They come to Barrow earlier; missed the first group we like to catch, migration path is the same but timing is earlier/different than before.   | 1         | 0        | 0        | 0         | 1         |
|              | They move up north too soon.  | 0         | 0        | 0        | 1         | 1         |
|              | Wainwright whalers are using outboard motors and are scaring whales farther out with their noise.   | 1         | 0        | 0        | 0         | 1         |
|              | We go out to the camp but don't go out hunting because of wind and ice conditions.  | 0         | 0        | 0        | 1         | 1         |
|              | Whales are further out due to disturbance by research boats.  | 1         | 0        | 0        | 0         | 1         |
|              | Whales are migrating earlier. The young ones went by earlier.   | 1         | 0        | 0        | 0         | 1         |
|              | Whales go out more - do not come close to shore.  | 1         | 0        | 0        | 0         | 1         |
| <b>Total</b> |   | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |



**Crosstabs: Explanations (coded) for changes Spring Migration (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| Explanation categories for changes in Spring Migration * Community | 42    | 54.5%   | 35      | 45.5%   | 77    | 100.0%  |

**C.6b Explanation categories for changes in Spring Migration \* Community Crosstabulation**

|   |                                  | Community |          |         |          | Total |
|---|----------------------------------|-----------|----------|---------|----------|-------|
|   |                                  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.6b Explanation categories for changes in Spring Migration | Seismic/Development: Oil and Gas | 1         | 1        | 0       | 0        | 2     |
|   | Climate                          | 9         | 0        | 1       | 4        | 14    |
|   | General Human Development        | 6         | 0        | 0       | 2        | 8     |
|   | Observations without Comment     | 9         | 0        | 2       | 8        | 19    |
| Total   |                                  | 25        | 1        | 3       | 14       | 43    |

**Crosstabs: Change in Hunting Strategies (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C.7 Over the last 5 years, have whalers had to change hunting strategies? * Community | 69    | 89.6%   | 8       | 10.4%   | 77    | 100.0%  |

**C.7 Over the last 5 years, have whalers had to change hunting strategies? \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.7 Over the last 5 years, have whalers had to change hunting strategies? | Yes | 17        | 0        | 4       | 10       | 31    |
|   | No  | 16        | 7        | 2       | 13       | 38    |
| Total   |     | 33        | 7        | 6       | 23       | 69    |

## Crosstabs: Hunting Strategy Changes (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C7a Changes in hunting strategies? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### C7a Changes in hunting strategies? \* Community Crosstabulation

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C7a<br>Changes in<br>hunting<br>strategies? | <b>No additional comments offered</b>  | 17        | 0        | 0       | 13       | 30    |
|   | After May 15th, outboard motors are allowed to be used. After May 15th, the big whales start running.  | 1         | 0        | 0       | 0        | 1     |
|   | Again, the respondent did not want to make the determination whether the whalers had changed, and if so, if they had changed in order to increase their success. Instead, he described some of the things that had changed in NQT whaling. He said that improved communications is now a big part of whaling, and GPS navigation units. They have better radios (and a system tied both to Deadhorse and to Cross Island) and GPS units that they can use to find their way even when it is foggy or windy and they cannot see. These GPS units are not as affected by weird conditions as the old ones were. The whalers can get places faster using the GPS systems than they could in the old days, especially in situations like when the wind comes up out in the ocean when there is no ice. | 0         | 0        | 1       | 0        | 1     |
|   | Be more efficient in the method of killing -- weapon improvements.   | 1         | 0        | 0       | 0        | 1     |
|   | Crews are using motorboats, but what they should be doing is changing the location of their base camps. People are only thinking about chasing whales, but they should have patience. They should use the experience of the past. Motorboats scare whales into the slush ice where they can't be caught.   | 1         | 0        | 0       | 0        | 1     |
|   | Crews are using outboard motors to chase the whales.   | 1         | 0        | 0       | 0        | 1     |
|   | Crews have to go out earlier because leads open earlier (mid-April instead of May).  | 1         | 0        | 0       | 0        | 1     |

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Do things pretty much the same way -- travel slowly while one member of the crew watches in each direction for any sign of whales. We also listen so that we can hear if there are any close whale blows that we may not see. When a whale is spotted the boat that sees it will call the other boats on the CB (or radio) and all the boats will come together to chase the whale until it gets tired and one boat can strike it. All will help to chase and kill it. Through this cooperation a captain gets to know where the other boats will be.  | 0         | 1        | 0       | 0        | 1     |
|  | Harpoon heads have changed - the new ones stay in, as opposed to dropping out.   | 0         | 0        | 0       | 1        | 1     |
|  | He said that there had been no real changes and that they do things pretty much the same way. There are now some big fiberglass boats with cabins. The crew of which he considered a member (and used to be captain) has a bad motor so they may in fact need to use the respondent's boat to whale this year. It is a bit small for Kaktovik and has only a 79 HP motor (which is why they just cannot put it on the bigger boat -- that boat really needs a 125 to 175 HP motor). He also later indicated some of the things he has been taught that he in turned passed on to his crew members about following and hunting the whale: 1)Don't ever cross the whale's wake, where its flippers move; 2) Don't cross behind the whale; 3) Don't disturb other boats; 4) Don't pass other boats. | 0         | 1        | 0       | 0        | 1     |
|  | He said that they whale pretty much the same as they have in the past. He did not choose any of the choices, but clearly indicated there had been no real changes that he could think of.  | 0         | 1        | 0       | 0        | 1     |
|  | Weapon improvements are proposed by the AEWG.  | 1         | 0        | 0       | 0        | 1     |
|  | Ice conditions and low tide.   | 1         | 0        | 0       | 0        | 1     |
|  | Improved weapon skills and stronger bombs.   | 1         | 0        | 0       | 0        | 1     |
|  | In the spring the ice is thinner now. Crews must go out earlier (April when it is still dark).   | 1         | 0        | 0       | 0        | 1     |
|  | Instead of using skin boats the whalers use aluminum boats; even in the spring.  | 0         | 0        | 0       | 1        | 1     |
|  | Kaktovik whalers still whale the same way as before. It has to be the same every year, and we teach the young people to whale this same way so that everyone works together and we remain successful [with little or no struck and lost].  | 0         | 1        | 0       | 0        | 1     |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Kaktovik whalers use the same number of boats and look for whales in the same way as in the past. When there is less ice it is easier to spot whales, but the waves can be bigger than normal since the presence of ice tends to damp the magnitude of the waves.   | 0         | 1        | 0       | 0        | 1     |
|  | Leads are much wider and crews have to go farther out. They have to start earlier, 2 to 3 weeks ahead of normal.  | 1         | 0        | 0       | 0        | 1     |
|  | More captains want to be like those in Wainwright and use outboards. I'm still trying to use traditional methods but those are being eroded.  | 1         | 0        | 0       | 0        | 1     |
|  | Motorized boats are now allowed during the spring in the most northern area around Point Barrow.  | 1         | 0        | 0       | 0        | 1     |
|  | Move around to find the right spot, each captain moves around.  | 1         | 0        | 0       | 0        | 1     |
|  | Need to prepare for the hunt earlier each year.   | 1         | 0        | 0       | 0        | 1     |
|  | NQT whalers have been successful with their quota, especially under conditions of open water and little or no ice. When there is ice in the fall, whales are hard to find.  | 0         | 0        | 1       | 0        | 1     |
|  | Once we found out how to do it with success, we stuck with it and success has been pretty constant.   | 0         | 1        | 0       | 0        | 1     |
|  | Prepare earlier, go out earlier, harder to find the right path because of younger ice.  | 1         | 0        | 0       | 0        | 1     |
|  | Respondent discussed not so much changes in hunting strategies as changes or advances in technology. He said that once you stop a whale you just chase it -- but did say that crews now commonly use more than one boat (but not all crews use more than one boat).   | 0         | 0        | 1       | 0        | 1     |
|  | Respondent may have misunderstood the question. He says that they actually hunt whales pretty much as they always have. However, since he is out of work he has had to forego whaling [hence his change of strategy] so that he can earn enough to go out eventually. He has been scrounging for work ever since his motor broke. | 0         | 0        | 1       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Respondent really answered two aspects of this question. In terms of activities of the hunt, he stated that they still use the same weapons, but that in the fall they have to go farther out to find (and harvest) whales. He spoke far longer about the MOTIVATION of whaling captains, however. Paraphrasing him, he said that in the past a good hunter was someone who would get all the meat back home, and would consider himself rich by doing so -- but now it is all about money. That is, he contrasts the "rich in meat" whaling captain of the past with the "rich in money" whaling captain of the present. Paraphrasing again, he stated that people go out whaling to prove that they can do it [they have the resources to do so] and not necessarily because they want to provide for the community. Respect for other people, even Elders, is gone when compared to what it was in the old days. His whaling captain (in 1957) taught him what to do and what not to do, and why -- but [at least some] present whaling captains are failing to teach this, and may not have ever learned it themselves. |           | 0        | 1       | 0        | 1     |
| Respondent said that it was more of an adaptation on how NQT whalers approach the whales they see. Because of industry activities [or possibly for other reasons] whales are "spooky" or can be very skittish, so NQT whalers had to figure out a way to get close enough to them to strike them with the darting gun. The method they devised is to go hard at the whale and force them to dive, and then to let them come up and repeat the process -- go hard at them so the whale will dive, and then wait for it to come up and go at it again. After a few times the whale starts to get tired and the dives get shorter and shorter, so that the whale has to stay on the surface longer. Eventually the whale stays on the surface long enough for a boat to be in position to strike it [or they lose the whale by not being able to spot it when it resurfaces before this stage is reached].   | 0         | 0        | 1       | 0        | 1     |
| Respondent said that NQT whalers pretty much did things as they always have.  | 0         | 0        | 1       | 0        | 1     |
| Strategy depends on ice conditions. Young captains wait for the spring outboard motor season to go out.   | 1         | 0        | 0       | 0        | 1     |
| Trying to make a better bomb; but the bombs are too expensive. Go out earlier to the camp than in the past.   | 0         | 0        | 0       | 1        | 1     |
| We are successful because it is a lot of team work - we are a big family.   | 0         | 0        | 0       | 1        | 1     |
| We are trying to find ways to instant kill.   | 0         | 0        | 0       | 1        | 1     |

|   | Community |          |          |           | Total     |
|---|-----------|----------|----------|-----------|-----------|
|   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
| We are using our Lund boats, the Lund boat helps us a lot, the Lund boats help cut through the young ice - it helps to avoid wearing out the skin boats.  | 0         | 0        | 0        | 1         | 1         |
| We have to go further out. Migration is farther out.  | 0         | 0        | 0        | 1         | 1         |
| We used to have ice from October to June. We didn't have ice this year until February. We need to travel lighter, be quicker. We need to pay attention to how the ice thickens, to make judgments for the spring. We never worried about this before. It melts from the bottom up; it is melting faster.  | 1         | 0        | 0        | 0         | 1         |
| We work as a whole - whatever the methods are, they are spread throughout.  | 0         | 0        | 0        | 2         | 2         |
| Weather   | 1         | 0        | 0        | 0         | 1         |
| Weather - we have to take greater risk, having to hunt in more dangerous weather, more windy conditions.  | 0         | 0        | 0        | 1         | 1         |
| We're holding lots of workshops; AEWG is teaching how to become efficient in landing whales, to create a shorter time to strike and land.   | 0         | 0        | 0        | 1         | 1         |
| Whaling crews have to go farther out.   | 1         | 0        | 0        | 0         | 1         |
| Whaling is about the same as in the past. There would be changes maybe if the bomb or other equipment were to change. The rules for whaling are about the same from year-to-year (may have changed a bit last year due to some younger participants as whalers, but they try to keep the rules the same). There was some discussion of whether Kaktovik whalers will adopt the new "superbomb." He said that Kaktovik whalers did not like the first two superbombs that they had tried (in the past -- year uncertain) [and that they will have to see successful results in Barrow before they are much interested in trying them in Kaktovik again]. | 0         | 1        | 0        | 0         | 1         |
| When disruption in migration has occurred, whaling crews have to go further out   | 1         | 0        | 0        | 0         | 1         |
| When whales were closer crews could just use skin boats. Now they must use powerboats that create noise and disturb the whales. The use of snow machines instead of dog teams also increases the noise.   | 1         | 0        | 0        | 0         | 1         |
| Working on a new bomb - one for each captain - superbomb.   | 0         | 0        | 0        | 1         | 1         |
| <b>Total</b>  | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

### Crosstabs: Coded Changes in Hunting Strategies (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Changes in Hunting Strategies * Community | 31    | 40.3%   | 46      | 59.7%   | 77    | 100.0%  |

#### Changes in Hunting Strategies \* Community Crosstabulation

|                               |               | Community |          |         |          | Total |
|-------------------------------|---------------|-----------|----------|---------|----------|-------|
|                               |               | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Changes in Hunting Strategies | Technological | 9         | 2        | 1       | 6        | 18    |
|                               | Timing        | 5         | 0        | 0       | 1        | 6     |
|                               | Distances     | 3         | 0        | 1       | 1        | 5     |
|                               | Locations     | 2         | 0        | 0       | 0        | 2     |
| Total                         |               | 19        | 2        | 2       | 8        | 31    |

### Crosstabs: Coded Explanations for Change in Hunting Strategies (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Coded explanations of why changes in strategies * Community | 15    | 19.2%   | 63      | 80.8%   | 78    | 100.0%  |

#### Coded explanations of why changes in strategies \* Community Crosstabulation

|   |                                 | Community |          |         |          | Total |
|---|---------------------------------|-----------|----------|---------|----------|-------|
|   |                                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Coded explanations of why changes in strategies | Climate                         | 2         | 2        | 0       | 1        | 5     |
|   | Human Development               | 1         | 1        | 3       | 1        | 6     |
|   | Observation without Explanation | 1         | 0        | 0       | 3        | 4     |
| Total   |                                 | 4         | 3        | 3       | 5        | 15    |

### Crosstabs: Why changes in hunting strategies? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C7b Why changes in hunting strategies? * Community | 77    | 100.0%  | 0       | .0%     | 77    | 100.0%  |

### C7b Why changes in hunting strategies? \* Community Crosstabulation

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C7b Why changes in hunting strategies? | <b>No additional comments offered</b>   | 26        | 4        | 4       | 20       | 54    |
|  | Applicant discussed the TIMING of whaling and the need for STORAGE here. He said that it is now too warm in the fall and they want it to cool off. They need cool weather to whale, because if they whale too early (when it is too warm) the muktuk and especially the meat will spoil. There are no or few ice cellars in Kaktovik, since the village has been moved several times and the DEW-Line took some of the prime land and the bluff is eroding [there are some ice cellars of course]. He says that the community needs more freezers to keep the meat and muktuk. It is hard to make ice cellars and hard to maintain them in Kaktovik Respondent uses his own freezer as he does not trust the freezer vans provided by the oil companies under the Oil-Whalers Agreement. They have only been provided a year or two now, but sometimes they lose power so that the contents are subject to spoiling. Some other whaling captains think that the oil companies should help in this way (with freezers) but has his doubts, because no one really makes sure that they are on all the time. He also prefers using an ice cellar (and his family also has an ice cellar). An ice cellar gives the meat and muktuk a special flavor -- just the right flavor -- that a freezer cannot. Ice cellars require a certain kind of management (need to stack the food inside it in the proper order and way -- layer it). The "common-use" freezers tend not to be cleaned as well as they should be and impart a different taste to the meat and muktuk. |           |          |         |          |       |
|  |   | 0         | 1        | 0       | 0        | 1     |
|  | Climate change  | 1         | 0        | 0       | 0        | 1     |
|  | For the reasons described above.  | 1         | 0        | 0       | 0        | 1     |
|  | Global warming has changed the weather patterns.  | 1         | 0        | 0       | 0        | 1     |
|  | Global warming. It usually gets -100 degrees. This year it didn't get near that.  | 1         | 0        | 0       | 0        | 1     |



|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| His dad started whaling in Kaktovik in 1964. They now have CB radios, better communications, and so on -- but everyone is still helping each other out.   | 0         | 1        | 0       | 0        | 1     |
| Ice conditions are bad in springtime. There haven't been more than 10 whales in the spring. We see the same amount as we used to but the ice conditions have changed.   | 1         | 0        | 0       | 0        | 1     |
| Ice conditions, weather (storms and fog), and wind direction.   | 0         | 1        | 0       | 0        | 1     |
| In some cases, the environmental interference has been imposed intentionally by MMS in order to make oil development impacts appear negligible.   | 1         | 0        | 0       | 0        | 1     |
| Length of time should be shorter for the whale, less suffering.   | 0         | 0        | 0       | 1        | 1     |
| No wind or tide.  | 1         | 0        | 0       | 0        | 1     |
| Now we use outboard motors, which is faster than the skinboats.   | 1         | 0        | 0       | 0        | 1     |
| Research ships may disrupt whale stocks.  | 1         | 0        | 0       | 0        | 1     |
| Respondent replies with one word -- "Technology," and then explicates it some more. He says that now, using GPS, boats can go straight to points where whales had been sighted before (days or years before). In the old days they had only compasses. A compass does not tell you how far, only which way to go (if you know how to use it). GPS much easier to use, much more precise.  | 0         | 0        | 1       | 0        | 1     |
| Respondent says that increased industry and other activity has modified whale behavior so that this strategy needed to be developed. Respondent said that the whaling boats and larger motors and such were not factors in this change.   | 0         | 0        | 1       | 0        | 1     |
| Respondent spoke to the same two aspects. To the first he simply said that "the whales are out farther." About the second he spoke much longer and was to some degree uncertain -- almost as if he were thinking out loud. He said at first he did not know why this change in motivation/attitude was taking place, and then generalized it to Western culture, and the clash of Western culture and Iñupiat culture. The Iñupiat were living the "simple" life but now have been Westernized. It is difficult for the young to understand the conflict between the two cultures. He said that he could go back to the old values [and life style] but that the young did not seem to understand how to mesh Iñupiat values with Western influences [with his HH and perhaps a few others being exceptions]. He says that the Elders predicted this would be what happened and that the Iñupiat would be | 0         | 0        | 1       | 0        | 1     |

|              |   | Community |          |          |           | Total     |
|--------------|---|-----------|----------|----------|-----------|-----------|
|              |   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | forced to go back to the old ways if they wanted to survive as a people. He then got a little more specific in comparing the past to the present. He said that in the past the intent of a whaling captain (and what the community expected of him) was to provide food year-round for his HH and others, but that currently there are few ("hardly any") whaling captains that hunt year-round. His HH gives most of what they harvest away to other HHs, because that is the way he was taught. He says that his HH is capable of doing things and some other HHS are not. His HH has the people and equipment to do all subsistence activities, and few other HHs have these capabilities. |           |          |          |           |           |
|              | The whole North Slope climate is changing.  | 1         | 0        | 0        | 0         | 1         |
|              | There are more whales.  | 0         | 0        | 0        | 1         | 1         |
|              | Too many whalers in Barrow.   | 1         | 0        | 0        | 0         | 1         |
|              | Trying to promote humane killing - at one point, we had to use 20+ bombs to kill one whale.   | 0         | 0        | 0        | 1         | 1         |
|              | Using Lund boats out of necessity; if you turn over, have to be able to take home the wet ones right away; this happens! The elders would come out and look, tell us if it was okay to go out in the Lund - they look for thin ice; a lot of open water. Skin boats cannot get to it right away.  | 0         | 0        | 0        | 1         | 1         |
|              | Weather - more adjustments will need to be tried. Migration is happening a few weeks earlier than in the past. We'll have to adjust by going earlier. In the fall, we are going later and later in the last 5 years. We used to go in November, now we go in December.  | 0         | 0        | 0        | 1         | 1         |
|              | Whales are further out.   | 1         | 0        | 0        | 0         | 1         |
| <b>Total</b> |   | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

**C7b Open Ended Questions - Coded by Four General Topics - Explanations of why changes in strategies \* Community Crosstabulation**

|   |                                  | Community |          |          |          | Total     |
|---|----------------------------------|-----------|----------|----------|----------|-----------|
|   |                                  | Barrow    | Kaktovik | Nuiqsut  | Savoonga |           |
| Coded explanations of why changes in strategies | Seismic/Development: Oil and Gas | 1         | 0        | 0        | 0        | 1         |
|   | Climate                          | 7         | 2        | 0        | 1        | 10        |
|   | General Human Development        | 3         | 1        | 3        | 1        | 8         |
|   | Observation without Explanation  | 1         | 0        | 0        | 3        | 4         |
| <b>Total</b>                                    |                                  | <b>12</b> | <b>3</b> | <b>3</b> | <b>5</b> | <b>23</b> |

**Crosstabs: Over last 5 years, number of whales observed same as what expected? (WC) ALL Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C.8 Over the last 5 years, has the number of whales observed been the same as expected? * Community | 67    | 85.9%   | 11      | 14.1%   | 78    | 100.0%  |

**C.8 Over the last 5 years, has the number of whales observed been the same as expected? \* Community Crosstabulation**

|   |             | Community |          |        |          | Total |
|---|-------------|-----------|----------|--------|----------|-------|
|   |             | Barrow    | Kaktovik | Nuqsut | Savoonga |       |
| C.8 Over the last 5 years, has the number of whales observed been the same as expected? | More        | 19        | 0        | 3      | 11       | 33    |
|   | Same number | 10        | 7        | 3      | 6        | 26    |
|   | Fewer       | 5         | 0        | 0      | 2        | 7     |
| Total   |             | 34        | 7        | 6      | 19       | 66    |

**Crosstabs: Why Changes in expected number? (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C8a Why the change from expected number of whales? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**C8a Why the change from expected number of whales? \* Community Crosstabulation**

|  |  | Community |          |        |          | Total |
|--|--|-----------|----------|--------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuqsut | Savoonga |       |
| C8a Why the change from expected number of whales? | <b>No additional comments offered</b>  | 11        | 7        | 7      | 14       | 25    |
|  | 2.5% increase a year - increase in populations.  | 1         | 0        | 0      | 0        | 1     |
|  | According to the elders, population has increased.   | 1         | 0        | 0      | 0        | 1     |
|  | After we get the quota, the whales seem to come in closer, just like they know we will not be hunting them anymore. They are smart. How many the whalers actually see depends on the ice conditions. If there is no ice, the whalers can see lots of whales. If there is loose ice the whales are harder to see and they may even lose a whale (as it can dive under the ice). [So basically the answer seems to be that the number of whales seen DOES differ from year-to-year BUT respondent may have meant that they always see enough to fill the quota and may feel that there are always about the same number of whales (since they all have to migrate past Kaktovik) but | 0         | 1        | 0      | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| that the whalers may not see them all each year, especially since they are really only looking for whales until they fill the quota and they have no interest in counting whales or the number that they see.]   |           |          |         |          |       |
| As long as there is no interference [oil and gas activity, etc.] they expect to see the same number of whales, as they [the Iñupiat] are the only ones taking them. but he knows that the number of whales they see from year-to-year can vary, and probably depends on what the whales encounter elsewhere, weather conditions, ice and open water, and so on. Every winter he says he has the same nagging question -- will the whales come back? In the back of his mind is the thought that something drastic could happen.  | 0         | 0        | 1       | 0        | 1     |
| Fluctuations have occurred.  | 1         | 0        | 0       | 0        | 1     |
| The whales are off in the distance.  | 1         | 0        | 0       | 0        | 1     |
| Change in migration -- there were more whales surveyed. WC annual meeting informed the group that the survey indicates an increase in population but they are not seeing them, so it must be a change in migration due to changes in the weather.  | 0         | 0        | 0       | 1        | 1     |
| Climate, pushed north more   | 0         | 0        | 0       | 1        | 1     |
| Depends on ice/migration. Cannot see a pattern.  | 0         | 0        | 0       | 1        | 1     |
| Depends on if there is an open lead.   | 1         | 0        | 0       | 0        | 1     |
| Depends on where crews are located. Those in the west are not seeing as many, while those in the east are seeing more but this is a dangerous area for hunting because of the currents.  | 1         | 0        | 0       | 0        | 1     |
| Did not want to make a judgment one way or the other, but described what he has observed. 2003 and 2002 were good years for the number of whales seen. There have been only a few years when it was hard to see whales, because there was lots of ice those years. In 2001 the whales were very "spooky" (hard to approach and skittish) -- maybe because the lead was too narrow or there was too much activity some where or there were some killer whales near by (NQT whalers did not see any killer whales but it was like that 15 years ago near Barrow, when there were killer whales around and hardly any bowheads) | 0         | 0        | 1       | 0        | 1     |
| He said that they see at least the same number of whales as in the past. They see all sizes of whales, A 30 foot whale is just right to catch. A 45 footer is too big.   | 0         | 1        | 0       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| He said they see pretty much the same number of whales every year. They do seem to see more mother whales with calves than they used to. The whalers leave mothers with calves alone and try to stay away from them [for two reasons -- they do not want to harm the reproductive capability of the population, and if they strike one the other may become very protective and then be a danger to the boats]. | 0         | 1        | 0       | 0        | 1     |
| High tide   | 1         | 0        | 0       | 0        | 1     |
| In bad weather, don't see the whales.   | 0         | 0        | 0       | 1        | 1     |
| Kaktovik whalers always see a lot of whales every year. Every year, after the quota is filled and whaling is over, there are still a lot of whales that they see passing by.  | 0         | 1        | 0       | 0        | 1     |
| Managing the whales through the quota makes a difference.   | 1         | 0        | 0       | 0        | 1     |
| More calves are reported by NSB wildlife and whaling captains.  | 1         | 0        | 0       | 0        | 1     |
| More females with calves.   | 1         | 0        | 0       | 0        | 1     |
| More whales are traveling through the offshore ice, the pack ice. This is another sign of stress.   | 1         | 0        | 0       | 0        | 1     |
| No elaboration  | 0         | 1        | 0       | 0        | 1     |
| No elaboration  | 0         | 1        | 0       | 0        | 1     |
| NQT whalers saw more younger whales 2 years ago (2002) because they started going out to Cross Island earlier than usual (by about 2 weeks). They did this so that they could target smaller whales and have better weather -- it is less windy then. After about 9/15 respondent says that it starts to get "rough, really rough."   | 0         | 0        | 1       | 0        | 1     |
| Open lead is larger - the main pack ice is moving too far north early in the spring.  | 1         | 0        | 0       | 0        | 1     |
| Outboard motor noise has caused whales to stay further out.   | 1         | 0        | 0       | 0        | 1     |
| Population is growing.  | 0         | 0        | 0       | 2        | 2     |
| Population is growing.  | 1         | 0        | 0       | 0        | 1     |
| Population is growing.  | 0         | 0        | 0       | 1        | 1     |
| Population is increasing.   | 1         | 0        | 0       | 0        | 1     |
| Population-wise, bowheads are strong. 300 whales are born every year.   | 0         | 0        | 0       | 1        | 1     |
| Pretty much the same -- but varies from year-to-year. When there is lots of activity [industry and other] the whalers see fewer whales. When there is no activity, then whalers see more whales and they are right on the expected migration path.  | 0         | 0        | 1       | 0        | 1     |
| Probably because of early migration and water temperature. A lot more big whales now.   | 1         | 0        | 0       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Respondent at first indicated "same number" and then changed to "more." But his discussion casts doubt on whether he wanted to choose any of the choices given. It really seems he wanted to say "there are always enough" and leave it at that. He started by explaining that the crew just has to see one whale, or "enough" and then catch it. Sometimes there are just a few whales, and sometimes a whole bunch (like 2 years ago -- 2002?). Last year (2003) they also saw quite a few whales. He first went whaling in NQT 1990-1993, and there was more ice then, and they saw fewer whales. So it appears that he was saying they are sometimes seeing more whales now, at least in part because there is less ice than in the past, but that he does not want to be too explicit about expectations or comparisons -- the whales that they see will be enough for their purposes. | 0         | 0        | 1       | 0        | 1     |
| Respondent says that they see about the same number of whales, but that the distance from Cross Island that they have to travel is different from year-to-year. He said that they are "always" running into pods of whales, but that it can vary from year-to-year -- some years the whales may be far out, and some years closer.  | 0         | 0        | 1       | 0        | 1     |
| Seen more in the fall and the spring climate.   | 0         | 0        | 0       | 1        | 1     |
| Since the quota crews have stopped catching whales with calves and have targeted smaller (30-ft) whales.  | 1         | 0        | 0       | 0        | 1     |
| Since the quota was imposed the number has been steady.   | 1         | 0        | 0       | 0        | 1     |
| The end of commercial whaling has led to a population increase.   | 1         | 0        | 0       | 0        | 1     |
| The whales come early before the crews go out. Also, ice conditions have changed.   | 1         | 0        | 0       | 0        | 1     |
| Too noisy now, seismic testing, airplanes, snow machines.   | 1         | 0        | 0       | 0        | 1     |
| Varies year to year.  | 1         | 0        | 0       | 0        | 1     |
| Visually, we see more, we have had good ice conditions (links the good conditions with why they are seeing an increase).  | 1         | 0        | 0       | 0        | 1     |
| We haven't been able to go out earlier, whales are migrating further out.   | 1         | 0        | 0       | 0        | 1     |
| Weather - ice is closed, too windy.   | 0         | 0        | 0       | 1        | 1     |
| Weather, maybe.   | 0         | 0        | 0       | 1        | 1     |
| Whale population increase.  | 1         | 0        | 0       | 0        | 1     |
| Whale population is increasing due to quota.  | 1         | 0        | 0       | 0        | 1     |

|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Whalers see a lot of whales, especially after the quota is filled. It seems they see even more after they stop whaling, even though they are not out looking for them anymore. They may be even closer then. Respondent says the whales are smart, as if they know they are safe once the quota is filled. | 0         | 1        | 0       | 0        | 1     |
|       | Whales have been seeing more whales, and more small whales.  | 0         | 0        | 1       | 0        | 1     |
|       | Whaling crews go out earlier because of ice conditions.  | 1         | 0        | 0       | 0        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Coded explanations for difference in expectations and behavior (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Coded explanation of why difference in expectations and results * Community | 50    | 64.1%   | 28      | 35.9%   | 78    | 100.0%  |

#### C.8a Coded explanation of why difference in expectations and results \* Community Crosstabulation

|   |                           | Community |          |         |          | Total |
|---|---------------------------|-----------|----------|---------|----------|-------|
|   |                           | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.8a Coded explanation of why difference in expectations and results - # whales | Oil and Gas Activities    | 1         | 0        | 2       | 0        | 3     |
|   | Climate                   | 5         | 1        | 2       | 7        | 15    |
|   | General Human Development | 7         | 0        | 0       | 0        | 7     |
|   | Observation               | 14        | 4        | 3       | 4        | 25    |
| Total   |                           | 27        | 5        | 7       | 11       | 50    |

### Crosstabs: Last 5 years number of whaling crews changed? (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C.9 Last 5 years, has the number of whaling crews in village changed? * Community | 73    | 93.6%   | 5       | 6.4%    | 78    | 100.0%  |

#### C.9 Last 5 years, has the number of whaling crews in village changed? \* Community Crosstabulation

|   |                   | Community |          |         |          | Total |
|---|-------------------|-----------|----------|---------|----------|-------|
|   |                   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.9 Last 5 years, has the number of whaling crews in village changed? | Increased         | 31        | 0        | 1       | 17       | 49    |
|   | Remained the same | 4         | 4        | 2       | 7        | 17    |
|   | Decreased         | 1         | 2        | 4       | 0        | 7     |
| Total   |                   | 36        | 6        | 7       | 24       | 73    |

## Crosstabs: Reasons for Changes in Whaling Crews (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C9a Reasons for changes in the number of whaling crews? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### C9a Reasons for changes in the number of whaling crews? \* Community Crosstabulation

|   |   | Community |          |         |          | Total |
|---|---|-----------|----------|---------|----------|-------|
|   |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C9a   | <b>No additional comments offered</b>   | 6         | 1        | 0       | 14       | 21    |
| Reasons for changes in the number of whaling crews? | The number of whaling crews is income related. If a captain does not have an income, he can't go out. [respondent said "if no income, can't go out" and NOT "if not enough income, can't go out" although he may well have meant the second rather than the first]. | 0         | 0        | 1       | 0        | 1     |
|   | Baby boomers - encouraged people to create captains - family has a better chance to get shares. It's good because some years we get the whole quota.  | 1         | 0        | 0       | 0        | 1     |
|   | Barrow population is growing. Also more crews are created so that members get a larger share. Young captains like me sometimes get out of hand and have to be straightened out. In the past older captains would use the radio to keep the younger ones in line.    | 1         | 0        | 0       | 0        | 1     |
|   | Barrow population is increasing and young people want to join the hunt.   | 1         | 0        | 0       | 0        | 1     |
|   | Because some want to become whaling captains.   | 1         | 0        | 0       | 0        | 1     |
|   | Cash economy- younger crews can afford to buy the necessary equipment to start their own crew. Back then, it was intergenerational. The larger the crew, the smaller the share.   | 1         | 0        | 0       | 0        | 1     |
|   | Couldn't say exactly. We split off. The crew used to be his father's crew. He separated because a lot of problems with the way things were done; wanted to keep the family together.  | 1         | 0        | 0       | 0        | 1     |
|   | Don't know.   | 1         | 0        | 0       | 0        | 1     |
|   | Don't know, maybe population change.  | 1         | 0        | 0       | 0        | 1     |
|   | Economic considerations - younger people can buy guns, equipment, but the more traditional whalers don't agree that they should necessarily be whaling captains.  | 1         | 0        | 0       | 0        | 1     |
|   | Everyone wants to get involved - the more boats, the more chance there is to land it (a whale).   | 0         | 0        | 0       | 1        | 1     |
|   | Families are getting larger.  | 1         | 0        | 0       | 0        | 1     |



|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Hardly see whales, spread out the groups to increase the chances to catch them.   | 1         | 0        | 0       | 0        | 1     |
| He said that young people are getting more interested, and that generally any young person interested in whaling can find a crew to serve on/work for.  | 0         | 1        | 0       | 0        | 1     |
| More crews have been created so that each member receives a fair share of the food.   | 1         | 0        | 0       | 0        | 1     |
| More money to buy their own equipment, and the equipment is affordable now.   | 1         | 0        | 0       | 0        | 1     |
| More people are crewing - some families split their crew in two because the number of people in the boat increased (over what the boat could hold).   | 0         | 0        | 0       | 1        | 1     |
| More people can afford to buy whaling gear and the Barrow population is growing.  | 1         | 0        | 0       | 0        | 1     |
| More people can afford to put a crew together.  | 1         | 0        | 0       | 0        | 1     |
| More people can afford to put a crew up.  | 1         | 0        | 0       | 0        | 1     |
| More people hungry for the muktuk.  | 1         | 0        | 0       | 0        | 1     |
| More people in Barrow.  | 2         | 0        | 0       | 0        | 2     |
| More people want to be involved for many reasons.   | 1         | 0        | 0       | 0        | 1     |
| More people want to become captains. Population has been growing.   | 1         | 0        | 0       | 0        | 1     |
| More people want to go whaling themselves; but I discourage it. Young guys, they try to get it right away, without much thinking. If they strike, it's bad.   | 0         | 0        | 0       | 1        | 1     |
| More people want to participate in the hunt. This is a subsistence village.   | 0         | 0        | 0       | 1        | 1     |
| More young men becoming of-age.   | 1         | 0        | 0       | 0        | 1     |
| More young people that want to go whaling.  | 0         | 0        | 0       | 1        | 1     |
| More younger people with jobs.  | 1         | 0        | 0       | 0        | 1     |
| New crews were formed.  | 1         | 0        | 0       | 0        | 1     |
| No.   | 1         | 0        | 0       | 0        | 1     |
| People want to go.  | 1         | 0        | 0       | 0        | 1     |
| Population increase.  | 1         | 0        | 0       | 0        | 1     |
| Population increases. Savoonga is one of the fastest growing villages in the region. More people are participating.   | 0         | 0        | 0       | 1        | 1     |
| Pretty much the same -- crews may have actually increased in number but because of motor problems and such, preventing some crews from going out, he thinks that the growth has been balanced out so that the end result is about the same level of whaling effort. Last year (2003) he says the fewest crews went out whaling from NQT ever. | 0         | 0        | 1       | 0        | 1     |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Respondent did not choose one of the fixed choices but said that there used to be 9 or 12 crews, but now were 8 [and maybe one of them may not go out]. Factors he cited for this decrease were crew problems [not really specified, but generally individuals who have not been as responsible and dependable as would be liked], family problems [ranging from death in the family to health problems to other unspecified personal problems], and money concerns, since going whaling costs quite a bit. He listed some of the past crews that would not be whaling.   | 0         | 1        | 0       | 0        | 1     |
|  | Respondent gave a rather extended answer to this question. He said that there had been about 10 crews at one time, but now that fewer crews were going out. He cited several factors: 1) Financial problems -- it is expensive to go whaling. When the worker(s) of a family go whaling it means that they must forego work (and income) for that period of time, and they must be able to afford to do this. 2) Related to financial problems is the need for expensive equipment -- some of the inactive crews need new boats or motors. 3) Also related is that some inactive captains have lost employment and income. 4) Lack or failure of recruitment may be a factor. 5) Loss of family life while the whalers are away on Cross Island may also be a factor for some people. The respondent then talked a bit about why, despite the expense and sacrifices whaling requires, it is so important. The importance of whaling is such that Iñupiat whaling captains (and others) will give up anything for it. Whaling captains go whaling to try to be a provider for the community, because it is needed. When they go whaling the captain cannot do it all himself -- he has to rely on the support of the people, and the captain in return helps provide for them. The whaling captain is nothing without a crew. If a man's girl or wife says to go whaling, then he will go. But, the respondent says, if the crew member has to give up a job it is hard to do so. | 0         | 0        | 1       | 0        | 1     |
|  | Respondent said that people want to go out whaling and satisfy the need for meat and blubber. They love to hunt, and love to feed people. [Respondent may have been talking more about the number of people who go whaling rather than the number of formal crews as such].   | 0         | 0        | 1       | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Respondent said that there used to be 11 crews in NQT, but now are about 5 [active] crews. Some captains passed away [and no one took over the crew], while others have no motor and no jobs and cannot afford to go whaling.  | 0         | 0        | 1       | 0        | 1     |
| Some captains are joining together (to combat the financial hardship of whaling). This has happened more this year than in the past.   | 1         | 0        | 0       | 0        | 1     |
| Spring whaling is fewer than in the fall.  | 0         | 0        | 0       | 1        | 1     |
| The number of crews in the village has decreased. There used to be 10 boats that went out, and now there are maybe 7. There has not been a reduction in the number of people whaling -- all those who were crew members of boats that no longer go out simply moved to boats that still are going out. There are fewer boats but the same number of people, which means that crews are larger. [This seems to be at least in part due to economic or financial factors, as the respondent then starts to talk about examples of how different crews pay for or afford to go whaling]. For the crew the respondent is associated with, he says that the captain has too many kids to be able to fully afford all the financial responsibilities of being a whaling captain. The captain still has to provide all the food and gas for the crew. Thus the respondent and his wife help this captain out all they can. Will help with the motor repair and even lend them a boat if they need to. The corporation helps all crews by providing some gas [he says 4 drums of gas/boat, but this may not be accurate]. Respondent also said that crews need to listen to the Elders, and need to pray before going out to look for whales. He says that there is usually no problem looking for whales, but that a crew does need to pray first -- and that usually they ask the oldest person associated with the crew to do so. He mentioned another crew that had not taken a whale for some years and had also not been praying before they went out for some years. They did pray finally, and then got a whale. Crews sometimes even ask Elders associated with other crews to lead the pray for their crew before they go out (especially if they do not have an Elder member or their Elders are all out of town or unavailable for some reason). | 0         | 1        | 0       | 0        | 1     |
| The same people are going out.   | 0         | 1        | 0       | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| There are several reasons that respondent gave: 1) Some captains/crews have financial problems, especially younger captains or those with young adults in their HH (and mentions recurring costs such as bombs, groceries, gas, replacing equipment such as ropes and floats and maybe a darting gun); 2) combined with this is potential equipment problems (broken motors or boats in need of repair especially, as the largest cost items); 3) some crews are no longer going out due to the lack of anyone taking on the role of captain (Tukle, Taalak) [no logical successor in the family with the necessary resources and/or knowledge] after the death of these captains]. Respondent then cites at least two crews that need new motors but have not been able to buy them due to financial constraints. | 0         | 0        | 1       | 0        | 1     |
| There are 4-5 more on the crew. The town is getting bigger. At the same time, each crew's share is getting smaller, so more want to go out on one's own.   | 1         | 0        | 0       | 0        | 1     |
| There are more people on the island.   | 0         | 0        | 0       | 1        | 1     |
| There have been nine crews or so.  | 0         | 1        | 0       | 0        | 1     |
| There used to be 10 crews, now 7 or 8 at most. Combination of reasons, and each person [whaling captain] makes his own decisions. He has lots of reasons why he has not been out whaling recently. [He does not detail them here, but later in this talk and in other talks he mentions several factors: cost (he and other HH members are not working); equipment problems (motor needs repair, has borrowed boat in the past and no longer wants to do so, but his boat needs work); prefers not to whale with all of the crews that have been going out regularly; health has been a little problematic]. He implies that some or all of these reasons may apply to other potential whaling captains as well.]  | 0         | 0        | 1       | 0        | 1     |
| There used to be 10, but now are 7 [did not give any reason(s) for the decrease in number] [factors known to surveyor -- one captain recently deceased and family still uncertain as to the status of his crew, one captain has not whaled for several years due to finances and may in fact have relocated to Fairbanks].   | 0         | 1        | 0       | 0        | 1     |
| We started our crew because there were too many people on the crew we were on, and we could hardly get a share. We had the equipment already to start a crew, and did.   | 1         | 0        | 0       | 0        | 1     |

|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | When the WCA started buying, we replaced bombs, block and tackle, this made things easier. Replacing the bombs that were used caused an increase because the bombs were being given to the whaling crews via WCA funding. Fundraising went to purchasing whaling equipment, buy bombs, darting bombs, etc. This made it easy for the village to whale. More whales, more food to distribute. | 0         | 0        | 0       | 1        | 1     |
|       | Whenever a boat gets a whale, it involves a lot of work, the more crews the less time working on a whale.  | 0         | 0        | 0       | 1        | 1     |
|       | Young captains making crews.   | 1         | 0        | 0       | 0        | 1     |
|       | Younger captains are coming on, more want to get into it. But they are having difficulties because they don't have the knowledge or language skills.   | 1         | 0        | 0       | 0        | 1     |
|       | Younger generation joining.  | 0         | 0        | 0       | 1        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

## Crosstabs: Effects of Crew Changes (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C9b Effects of number of crews on ability to recruit and retain crew members?<br>* Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### C9b Effects of number of crews on ability to recruit and retain crew members? \* Community Crosstabulation

|   |  | Community |          |        |          | Total |
|---|--|-----------|----------|--------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuqsut | Savoonga |       |
| C9b Effects of number of crews on ability to recruit and retain crew members? | <b>No additional comments offered</b>  | 7         | 0        | 0      | 12       | 19    |
|   | Has really had no real affect on crew recruitment -- about the same. As the number of crews decreased, the remaining crews tended to increase the number of boats that they were using, so that the overall number of boats used for scouting for whales at Cross Island in recent years has been about the same, and the boats are using bigger motors. | 0         | 0        | 1      | 0        | 1     |
|   | He has never had a problem recruiting enough crew members. He thinks that maybe the fact that he does not "scold" his crew members as much as some other captains do is one reason he has no problems recruiting crew members.   | 0         | 0        | 1      | 0        | 1     |
|   | It has an effect -- some men go from crew to crew for the change, but most are long-term. They are family members.   | 1         | 0        | 0      | 0        | 1     |
|   | It is better to have more whaling crews.   | 1         | 0        | 0      | 0        | 1     |
|   | It's good, because they want to help feed the community, that's why they become captains.  | 1         | 0        | 0      | 0        | 1     |
|   | Negative effect - there are more less-experienced captains and crews that do not follow the traditions. Positive effects - there are more people available for butchering harvested whales.  | 1         | 0        | 0      | 0        | 1     |
|   | Negative effect -- too many crews and too few whales in the quota (the quota hasn't increased over the past few years but the number of crews has).  | 1         | 0        | 0      | 0        | 1     |
|   | Negative. There used to be less than 30 crews, now there are 48-50. Everyone wants to get a whale but no one wants to butcher. The value of sharing is being eroded due to the cash economy.   | 1         | 0        | 0      | 0        | 1     |
|   | New crew members went for one year and then quit.  | 0         | 0        | 0      | 1        | 1     |
|   | No.  | 5         | 0        | 0      | 8        | 13    |
|   | No.  | 0         | 1        | 1      | 0        | 2     |
|   | No - got a whale in '94 last time.   | 1         | 0        | 0      | 0        | 1     |

|   |   | Community |          |         |          | Total |
|---|---|-----------|----------|---------|----------|-------|
|   |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| No - more young kids are asking. Bring a TV, generator, games; but they want to learn how to hunt. We explain and teach, fix their snow machine.  | 0 | 0         | 0        | 1       | 1        |       |
| No - mostly family  | 1 | 0         | 0        | 0       | 1        |       |
| No - same for the last 10 yrs   | 1 | 0         | 0        | 0       | 1        |       |
| No - we welcome more crews, we need all the help we can get.  | 0 | 0         | 0        | 1       | 1        |       |
| No effect   | 9 | 0         | 0        | 0       | 9        |       |
| No effect -- crew composed of family members and not affected by the dynamics of other crews  | 0 | 1         | 0        | 0       | 1        |       |
| No effect -- everyone helps each other to find crew   | 1 | 0         | 0        | 0       | 1        |       |
| No effect -- he welcomes new captains and crews   | 1 | 0         | 0        | 0       | 1        |       |
| No effect -- his crew is the same and recruitment has been the same   | 0 | 1         | 0        | 0       | 1        |       |
| No effect -- if he were to go out whaling he would have no problem recruiting a crew. He "can pick and choose" who he wants on his crew.  | 0 | 0         | 1        | 0       | 1        |       |
| No effect because of family participation   | 1 | 0         | 0        | 0       | 1        |       |
| No effects  | 1 | 0         | 0        | 0       | 1        |       |
| No, no effect since all crew members are family members.  | 0 | 1         | 0        | 0       | 1        |       |
| no.   | 1 | 0         | 0        | 0       | 1        |       |
| No. The crew stays together; they go hunting, fishing, barbeque, no change.   | 1 | 0         | 0        | 0       | 1        |       |
| Not really  | 0 | 2         | 0        | 0       | 2        |       |
| Not really -- he has had no problem finding crew members.   | 0 | 1         | 0        | 0       | 1        |       |
| Positive  | 1 | 0         | 0        | 0       | 1        |       |
| Positive - the more, the merrier  | 1 | 0         | 0        | 0       | 1        |       |
| positive - two nephews are coming on the crew   | 0 | 0         | 0        | 1       | 1        |       |
| Positive - we're becoming more efficient in butchering whales.  | 0 | 0         | 0        | 1       | 1        |       |
| Respondent does not give a direct answer to this. Rather, he talked about the factors influencing crew membership again. 1) Family connections -- the crew he is on is composed mainly of (pretty direct) family members. 2) Income -- a whaling captain needs a good income in order to afford to go whaling, or needs the support of family members with good incomes. The whale gives itself from the spirit to provide for the people, BUT the Iñupiat are living in a monetary situation now too, and money is important. 3) Leadership of the captain is important, to provide crew motivation. 4) Some crew members like to go whaling with a captain who has been successful in the past. Respondent seemed to list these factors to explain why there has been change in the membership of the crew of which he is part -- but also to explain | 0 | 0         | 1        | 0       | 1        |       |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | why the people who joined were chosen. Nearly all are family relations, and not all relatives who want to go can be accommodated. There is also the dynamic that the respondent cites (along with many other captains) that "a captain won't say 'no' to a crew member" [who asks to go out whaling with him].  |           |          |         |          |       |
|       | Respondent said that people and crews have their ups and downs. Usually there is no problem getting more people than you need who want to go out whaling. One recent year respondent's old captain wanted only his old crew to go (was the last year that one of this captain's respected crew members was to go out with him). Respondent said that to have a stable crew a captain needed to be constantly expanding it in terms of new people, and bringing in young crew members and teaching them. There is always some turnover in a crew, due to illness and personality and work/employment -- and not all crew members can be there all the time. Any number of things can happen -- accidents and so on. So a captain has to be able to form a crew larger than he really needs, to take care of these eventualities. His old captain had few problems in this regard, and he would anticipate that he would have no problems in this regard. | 0         | 0        | 1       | 0        | 1     |
|       | This has not affected him or his crew. If he goes out he knows that there will be many people who will want to go out on his crew. He always asks his brother to be on his crew (as driver). His sons are also always part of his crew, if they are in NQT. Then he looks for people who like to work and don't just sit around. He watches people in the village and what they do so that when they ask if they can go out whaling with them he will know who are the workers and who are not. Crew members usually ask the captain if they can go out with his crew, and the captain will ask the Elders for advice on who to accept. The Elders know who is most experienced [and what crews are best for the young to learn on].  | 0         | 0        | 1       | 0        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |



### Crosstabs: Difficulty of Putting Crew Together (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C.10 Over the last 5 years, difficulty in putting a crew together? * Community | 73    | 93.6%   | 5       | 6.4%    | 78    | 100.0%  |

#### C.10 Over the last 5 years, difficulty in putting a crew together? \* Community Crosstabulation

|  |                | Community |          |         |          | Total |
|--|----------------|-----------|----------|---------|----------|-------|
|  |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.10 Over the last 5 years, difficulty in putting a crew together? | Easier         | 10        | 1        | 3       | 4        | 18    |
|  | About the same | 13        | 6        | 4       | 17       | 40    |
|  | Harder         | 12        | 0        | 0       | 3        | 15    |
| Total  |                | 35        | 7        | 7       | 24       | 73    |

### Crosstabs: Why Change in Difficulty Putting Crews Together? (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C10a Why change in difficulty in putting a crew together? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### C10a Why change in difficulty in putting a crew together? \* Community Crosstabulation

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C10a Why change in difficulty in putting a crew together? | <b>No additional comments offered</b>  | 13        | 2        | 0       | 16       | 31    |
|   | <b>About the same</b>  | 1         | 0        | 0       | 0        | 1     |
|   | After they see how his boat performs they are willing to tag along with him. In the past people did not think his boat and crew could handle whaling, but went out in 2001 and did well. In the old days his crew (actually his dad's crew) had a smaller and slower boat.   | 0         | 0        | 1       | 0        | 1     |
|   | Costs are increasing, especially gas.  | 1         | 0        | 0       | 0        | 1     |
|   | Crew members are committed to a captain.   | 0         | 0        | 0       | 1        | 1     |
|   | Did not have to put one together.  | 1         | 0        | 0       | 0        | 1     |
|   | Everything is usually already to go from one year to the next, so he does not need to find anybody. The last 2 years he has not even gone out in the boat (and the crew has taken whales for him). His brother is the harpooner. He has no problems putting a crew together. | 0         | 1        | 0       | 0        | 1     |
|   | Every year has been about the same.  | 0         | 1        | 0       | 0        | 1     |
|   | Expenses are going up.   | 1         | 0        | 0       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Fewer jobs and less income make it more difficult to purchase gas and other supplies.   | 1         | 0        | 0       | 0        | 1     |
| Getting easier or staying about the same.   | 1         | 0        | 0       | 0        | 1     |
| Getting equipment that is better.   | 0         | 0        | 0       | 1        | 1     |
| Hard to convince people to participate.   | 1         | 0        | 0       | 0        | 1     |
| He said that it has always been easy for him to recruit crew members -- in fact, they come and ask him (rather than the reverse) and he says that he never says "no." He then says that he can take 7 crew members in 1 boat if it has a 90 HP or greater motor [a further revision of the "crew member number" answer].  | 0         | 0        | 1       | 0        | 1     |
| However, more expensive to put a crew together.   | 1         | 0        | 0       | 0        | 1     |
| Ice conditions are making it more difficult to make roads to whaling camps.   | 1         | 0        | 0       | 0        | 1     |
| It has always been fairly easy for him to recruit a crew -- and it is hard to hurt someone's feelings by saying "no" if they ask to go -- even if there is no room on the boat or in the cabin.   | 0         | 0        | 1       | 0        | 1     |
| It is easier to acquire equipment because of improved shipping services and communications (Internet). The downside is that money is flowing to outside firms rather than local businesses.   | 1         | 0        | 0       | 0        | 1     |
| It's a cash economy. There are less jobs and the gas prices are so high.  | 1         | 0        | 0       | 0        | 1     |
| More jobs/income, together with donations from charitable organizations (e.g., UAAA, Esk. Inc.), have made it easier to put a crew together.  | 1         | 0        | 0       | 0        | 1     |
| More people want to join the crew.  | 0         | 0        | 0       | 1        | 1     |
| Mostly family members and relatives.  | 0         | 1        | 0       | 0        | 1     |
| Nephews have crew and joined crew.  | 1         | 0        | 0       | 0        | 1     |
| No change because of family participation.  | 1         | 0        | 0       | 0        | 1     |
| No further elaboration from the respondent.   | 0         | 0        | 1       | 0        | 1     |
| No reason.  | 1         | 0        | 0       | 0        | 1     |
| People have the money to participate.   | 1         | 0        | 0       | 0        | 1     |
| People like to go out whaling. His boat can generally take a boat crew of 5 or 6 -- a 24 foot Carolina skiff with 130 HP Honda. Generally a person who wants to go out and who has not been out before (or has no crew affiliation in Kaktovik already) will ask the captain he wants to go with if he can be on the crew. Some captains say "yes" more than others. He says that he tends to say "yes" a lot [maybe more than other captains] since he likes to have extra "spotters" [people looking for whales or whale-sign] in the boat. Some crew members are much better at spotting whales than are others. | 0         | 1        | 0       | 0        | 1     |

|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Respondent has to call crew members every day to get them ready; in the past crews did not have to be continually asked.   | 1         | 0        | 0       | 0        | 1     |
|       | Respondent said crew recruitment was easy "cause we [his family members] already learn how [to whale] -- hardly need to teach them how [to whale]." That is, there are so many family members who know how to whale and want to go out that there is no problem. | 0         | 0        | 1       | 0        | 1     |
|       | Same crew.   | 0         | 0        | 0       | 1        | 1     |
|       | See above  | 0         | 1        | 1       | 0        | 2     |
|       | Some people are not that interested. It depends on the cost of gas to go down to the camp in the spring.   | 0         | 0        | 0       | 1        | 1     |
|       | The equipment is more expensive and supplies make it difficult.  | 1         | 0        | 0       | 0        | 1     |
|       | There are a lot more whaling captains, more people go out whaling.   | 1         | 0        | 0       | 0        | 1     |
|       | There are always more people who want to go whaling than there are places in boats for them. Some may need to stay in town to work, or because of lack of money, or for health reasons -- but there are plenty of others who will want to go out whaling.        | 0         | 0        | 1       | 0        | 1     |
|       | There are more men who want to go out because of Barrow's increasing population and increasing interest.   | 1         | 0        | 0       | 0        | 1     |
|       | They are able to buy the equipment - sleds, gas, guns.   | 1         | 0        | 0       | 0        | 1     |
|       | To start up a crew, it's financially expensive. \$15K - \$20K; or \$5K-\$10K.  | 1         | 0        | 0       | 0        | 1     |
|       | Whale hunting expenses have increased dramatically.  | 1         | 0        | 0       | 0        | 1     |
|       | When we first started, no one wanted to go out because they did not know anything about whaling.   | 0         | 0        | 0       | 1        | 1     |
|       | You have to spend a lot of money; it is more expensive, used all the equipment.  | 1         | 0        | 0       | 0        | 1     |
|       | You need a lot of cash in your pocket to buy and maintain equipment.   | 1         | 0        | 0       | 0        | 1     |
|       | Young kids don't like to hunt, and they stay up too late.  | 0         | 0        | 0       | 1        | 1     |
|       | Young people are growing up more experienced.  | 0         | 0        | 0       | 1        | 1     |
|       | Younger people don't care much about it, some are scared to handle darting gun.  | 0         | 0        | 0       | 1        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

**Crosstabs Coded-Why Changes in Difficulty Putting Crews Together? (WC)  
- All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| Why Change in Difficulty Putting Crew Together * Community | 38    | 48.7%   | 40      | 51.3%   | 78    | 100.0%  |

**C.10a Why Change in Difficulty Putting Crew Together \* Community Crosstabulation**

|  |                                | Community |          |         |          | Total |
|--|--------------------------------|-----------|----------|---------|----------|-------|
|  |                                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C.10a Why Change in Difficulty Putting Crew Together | Easier-Economic Factors        | 7         | 0        | 0       | 1        | 8     |
|  | Harder-Economic Factors        | 4         | 3        | 6       | 4        | 17    |
|  | Easier-family or Crew Dynamics | 9         | 0        | 0       | 1        | 10    |
|  | Harder-family or Crew Dynamics | 1         | 0        | 0       | 2        | 3     |
| Total  |                                | 21        | 3        | 6       | 8        | 38    |

**Crosstabs: Annual Costs of Whaling (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C11 Amount of money spent to prepare for a Bowhead hunt? * Community | 66    | 84.6%   | 12      | 15.4%   | 78    | 100.0%  |

**C11 Amount of money spent to prepare for a Bowhead hunt? \* Community Crosstabulation**

|  |                    | Community |          |         |          | Total |
|--|--------------------|-----------|----------|---------|----------|-------|
|  |                    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C11 Amount of money spent to prepare for a Bowhead hunt? | < \$5,000          | 4         | 1        | 0       | 18       | 23    |
|  | \$5,001-\$7,500    | 5         | 3        | 0       | 1        | 9     |
|  | \$7,501-\$9,999    | 7         | 1        | 1       | 0        | 9     |
|  | \$10,000-\$12,500  | 5         | 0        | 0       | 1        | 6     |
|  | \$12,501-\$15,000  | 5         | 0        | 1       | 0        | 6     |
|  | \$15,001-\$17,500  | 4         | 0        | 0       | 0        | 4     |
|  | More than \$17,500 | 5         | 1        | 3       | 0        | 9     |
| Total  |                    | 35        | 6        | 5       | 20       | 66    |

**Crosstabs: Have Whaling Costs Changed from what Expected to Spend? (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C12 Has the amount changed from what you usually expect to pay? * Community | 68    | 87.2%   | 10      | 12.8%   | 78    | 100.0%  |

**C12 Has the amount changed from what you usually expect to pay? \* Community Crosstabulation**

|   |                 | Community |          |         |          | Total |
|---|-----------------|-----------|----------|---------|----------|-------|
|   |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C12 Has the amount changed from what you usually expect to pay? | More than usual | 14        | 2        | 3       | 13       | 32    |
|   | About the same  | 14        | 5        | 2       | 6        | 27    |
|   | Less than usual | 5         | 0        | 2       | 2        | 9     |
| Total   |                 | 33        | 7        | 7       | 21       | 68    |

**Crosstabs: Why Differences in Costs? (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C12a Why the difference in preparation costs? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**C12a Why the difference in preparation costs? \* Community Crosstabulation**

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C12a Why the difference in preparation costs? | <b>No additional comments offered</b>  | 11        | 0        | 0       | 2        | 13    |
|   | \$1K - darting guns and bombs, depends on price of gas.  | 0         | 0        | 0       | 1        | 1     |
|   | \$1K-\$2K - real expensive to go out in spring time; fall hunt is from the village.  | 0         | 0        | 0       | 1        | 1     |
|   | \$2K-\$3K - moving everything back and forth. Gas is going up, fuel oil is going up, we use fuel for heat at camp.                                 | 0         | 0        | 0       | 1        | 1     |
|   | \$2K. \$700-\$800 - gas, groceries, lube oil. Bombs are given separately (WCA), block and tackle is given (WCA), and large webbing is given (WCA). | 0         | 0        | 0       | 1        | 1     |
|   | \$2K. More times going back and forth for fuel to camp. Gas and stove oil prices go up.  | 0         | 0        | 0       | 1        | 1     |
|   | \$3K-\$4K per captain. WCA helps pay for gas, groceries, bingo, pool tab. Bingo and pool tab pays for expenses.                                    | 0         | 0        | 0       | 1        | 1     |
|   | \$500 - WCA provides.  | 0         | 0        | 0       | 1        | 1     |
|   | \$500.00 from the Whaling Captain's Association, then \$2K-\$3K beyond that. Prices at the store are increasing, there are daily increases.        | 0         | 0        | 0       | 1        | 1     |
|   | \$5K-\$7K. Prices are rising – gas.  | 0         | 0        | 0       | 1        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Already purchased most of the equipment needed but still needed some replacements.  | 1         | 0        | 0       | 0        | 1     |
| Bought new equipment.   | 1         | 0        | 0       | 0        | 1     |
| May have to spend more for equipment during some years.   | 1         | 0        | 0       | 0        | 1     |
| Respondent qualified this answer. Expected expenses would be "3" without the in-kind assistance received from the oil companies under the "Oil-Whalers Agreement" and would be "6" if the crew experienced a major breakdown [if the boat or motor needed major repair or replacement]. Respondent said that sometimes other crews need help so that they can whale, which often takes the form of borrowing equipment (maybe even motors). Respondent says it is much better to have ones own whaling equipment, as the "share" expected to be allocated to borrowed equipment tended to be quite large. Respondent recalled that one year he had to buy a motor just before whaling season (as his motor broke just before whaling) and the choice was to pay a premium price for a new motor (because was short notice and quick shipping) or not go whaling. He paid the premium price. Respondent concluded with that this is a simple question with a complicated answer. Fresh food is also expensive, and is an important part of what the captain provides for his crew. | 0         | 1        | 0       | 0        | 1     |
| Cost of gas has increased.  | 1         | 0        | 0       | 0        | 1     |
| Depends on how many crew members you got, with a lot of crew members, more money is spent. You have to provide food, gas, oil for the crew.   | 1         | 0        | 0       | 0        | 1     |
| Depends on how many times you go back and forth to camp during the spring and the cost of gas.  | 0         | 0        | 0       | 1        | 1     |
| Depends on the equipment that needs replacing.  | 1         | 0        | 0       | 0        | 1     |
| Depends on when the umiak needs new skins.  | 1         | 0        | 0       | 0        | 1     |
| Did not go out last year since his motor was broken. He says it costs at least \$8,000 just to go out for food and gas, and if a captain successfully takes a whale he can easily spend \$50,000.   | 0         | 0        | 1       | 0        | 1     |
| Don't keep track - whaling captains buy gas \$700-\$900, we get help from WCA.  | 0         | 0        | 0       | 1        | 1     |
| Everything cost more at the store and gas station, fuel and oil.  | 1         | 0        | 0       | 0        | 1     |
| Expenses decrease after the initial purchase of gear.   | 1         | 0        | 0       | 0        | 1     |

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Fuel prices went sky high. Discounts for food went away this year. One of the organizations behind coordination and sponsorship of the discounts with the local stores is not doing well.  | 1         | 0        | 0       | 0        | 1     |
|  | Fuel prices, grocery prices.   | 0         | 0        | 0       | 1        | 1     |
|  | Gas is going up.   | 0         | 0        | 0       | 1        | 1     |
|  | Gas price increases.   | 1         | 0        | 0       | 0        | 1     |
|  | Had to buy a new motor, and the prices of everything keeps going up -- especially groceries, and airline tickets for transportation and sending supplies.  | 0         | 0        | 1       | 0        | 1     |
|  | Had to rebuild motor last year (\$3,000). This was still cheap, but still a significant expense. This boat is also used for duck hunting, marine mammals, caribou, and so on. They have not broken down during whaling yet, but that would also be extra expense. Other regular expenses include bombs @ \$95, at least \$500 for groceries, gas (over and above what is given to each crew). Crew and others often help with part of the support needed for the crew. He has learned to depend on the gas provided by the corporation and oil companies. Nulukatuq is a set of additional expenses -- need propane and the subsistence foods to cook (ducks, geese, caribou, seal, etc. -- things in addition to whale). Other crews may need to spend even more, especially if they are bigger or have a bigger boat or motor. | 0         | 1        | 0       | 0        | 1     |
|  | He estimates cost as over \$15,000/year. More than \$100/shot, \$300/day for food. You need money to go whaling. He gave examples of two men who tried to have crews but since they were not working could not afford to do so (one did whale one year, but could not continue). Costs kept going up. 10 years ago it cost \$45/shot, now it is \$100/shot. The captain has to spend that much, or else be supported by his crew and other community people. Such support is then acknowledged by giving them all shares.  | 0         | 1        | 0       | 0        | 1     |
|  | He remarked that this has been about the same as in the recent past, but is less than it would be if the oil companies did not help with gas and oil. The help from the oil companies is a relatively recent thing, and they never used to provide this help [until the negotiation of the Oil-Whalers Agreement]. They give each crew 3 drums of gas [may since have been reduced], which may be barely enough for the season -- but usually he has to buy some additional gas on his own as well.  | 0         | 1        | 0       | 0        | 1     |
|  | Higher prices.   | 0         | 0        | 0       | 1        | 1     |

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | In the spring, spend a lot of money, but don't go out hunting. Buy gas and grub but weather ends up too bad to go out. Have to buy parts for the snow machine, prices go up.   | 0         | 0        | 0       | 1        | 1     |
|  | Increasing cost.   | 0         | 0        | 0       | 1        | 1     |
|  | Maybe more this year because there is no discount for food. Still receives a 30% discount on gas up to 6 drums (however, more gas than this is needed during the whaling season).  | 1         | 0        | 0       | 0        | 1     |
|  | Merchandise at the store is going up, oil increases, changed snow machine parts, need to go 40-50 miles away to camp, parts are sometimes hard to get, and gas is increasing.  | 0         | 0        | 0       | 1        | 1     |
|  | Most is spent on food and propane. He has changed his way of shopping, from mostly local to ordering from Sam's Club.  | 0         | 1        | 0       | 0        | 1     |
|  | Never went out for spring whaling.   | 1         | 0        | 0       | 0        | 1     |
|  | New outboard motor, gasoline is very expensive, also food and cigarettes.  | 1         | 0        | 0       | 0        | 1     |
|  | New snow machines had to be purchased.   | 1         | 0        | 0       | 0        | 1     |
|  | No discount received as in previous years for groceries, etc.-- only received a discount for fuel.   | 1         | 0        | 0       | 0        | 1     |
|  | Price of goods rising.   | 1         | 0        | 0       | 0        | 1     |
|  | Prices.  | 0         | 0        | 0       | 2        | 2     |
|  | Prices are increasing, especially gas.   | 1         | 0        | 0       | 0        | 1     |
|  | Prices have increased for snow machine parts, gas, food, ammunition, etc.  | 1         | 0        | 0       | 0        | 1     |
|  | Replaced gear, snow machines, sleds, bombs (\$100 per bomb). Seven shoulder guns, seven darting guns, clothing, etc.   | 1         | 0        | 0       | 0        | 1     |
|  | Respondent did not want to give the amount he spent in the last year. Rather, he talked about what expected costs would be. He said that in 1983 (the first year he whaled as a captain from NQT) he spent between \$10,000 and \$12,000 getting ready. Currently he says that it costs a captain between \$10,000 and \$15,000 a year IF HE ALREADY HAS ALL THE EQUIPMENT (boat, motor, floats and lines, darting gun, shoulder gun, etc.). If you need to fix something, or happen to take a whale and need to host Nulukatuq, expenses will be more (jackets alone for the crew for Nulukatuq can cost \$2000 or more). Respondent's expenses the last year he went whaling were more than usual because the crew was larger than usual [he used 2 boats instead of 1]. | 0         | 0        | 1       | 0        | 1     |



|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Respondent does not want to say. He says that much is given to the whaling captains to help them whale. The store has given them a discount on all that they buy for whaling (which he says is different from in Barrow, where all captains pay full price). The oil companies and the city provide some gas and oil. His cost is mainly groceries and such. Nuluqatuq is also a large expense, but sometimes people help out a lot, and the crew often chips in as well. His share from the whale certainly helps out and is distributed. If he (or someone else) breaks down there are additional expenses, as people usually help each other out with such expenses (say for a motor repair) if it is an emergency. [Helping to BUY a new motor for another crew would probably NOT be a thing that would be expected to happen]. He also says that costs last year were about the same as usual, and that now that he is sitting at home more than in the past he has more [Native] food than ever before when he was a very active hunter, especially whale and sheep. | 0         | 1        | 0       | 0        | 1     |
|  | Respondent gives an estimate of \$25,000 to \$30,000 -- and others present say it was even more. This is just what the whaling captain spent. He says that contributions from other family members may have been as much again. He spent over \$10,000 just on gear and grub for the crew. He also had to buy bombs, another harpoon, make motor payments, pay off the boat, and in addition sometimes need supplies sent out during the season while they are at Cross Island. Because of inflation costs keep going up, so last year was more expensive than previous years. In-kind donations are also acceptable to whaling crews and even crew members will chip in.   | 0         | 0        | 1       | 0        | 1     |
|  | Respondent loses annual leave to hunt. The NSB has become more strict in the use of leave.  | 1         | 0        | 0       | 0        | 1     |
|  | Respondent said "less than \$20,000.00" and said that this was a normal amount -- but that he/they may need to buy a new outboard, which would be an additional expense.  | 0         | 0        | 1       | 0        | 1     |
|  | Respondent says at least \$20,000.00/year is typical -- his estimate for last year is a minimum number. If a captain has outboard problems (which is not unusual) and regular boat maintenance the \$20,000.00 can be reached pretty quick.   | 0         | 0        | 1       | 0        | 1     |
|  | Respondent's crew harvested a whale early in the season.  | 1         | 0        | 0       | 0        | 1     |

|              |   | Community |          |          |           | Total     |
|--------------|---|-----------|----------|----------|-----------|-----------|
|              |   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | That is the cost if you get a whale, but a captain can not count on taking a whale. When your crew takes a whale you need to go to the store for all those things you will need on short order but probably did not order ahead of time (because a captain cannot count on taking a whale) -- condiments and food and such.   | 0         | 1        | 0        | 0         | 1         |
|              | The (whaling) organization helps us out - \$500 for each boat, and gas, stove oil, the whole village helps out during whaling season. Short season.   | 0         | 0        | 0        | 1         | 1         |
|              | The captain understood the question, but answered the question that he wanted to answer. Last year he did not go out whaling, so that the answer "should" have been "1." However, he gave an answer in terms of the one time he and his wife tried to keep track of the expenses they actually incurred. This was the year when his crew took a whale, and lost track of the expenses once they exceeded \$45,000.00. This counts equipment (boat, motor, crew gear, grub, gas, nuluqatuk -- and then they lost track). Once the money is spent, it is gone -- but it comes back in the form of a whale, which is a good feeling. In a way, he says, this is trading money for meat. Prices have gone up in the years since he took this whale, so he thinks that expenses would probably be more now. If a captain can keep an outboard and boat from year-to-year the expenses would be reduced somewhat. | 0         | 0        | 1        | 0         | 1         |
|              | The cost shown in #10 does not count wife's time and leave from job. With time including wife's time, younger brothers - \$15K-\$21K.   | 1         | 0        | 0        | 0         | 1         |
|              | There are certain pieces of equipment that is kept only for whaling. He had more of the equipment than usual.   | 1         | 0        | 0        | 0         | 1         |
|              | There will be less crews in the future because of declining revenues.   | 1         | 0        | 0        | 0         | 1         |
|              | This changes and fluctuates every year.   | 0         | 0        | 0        | 2         | 2         |
|              | WCA paid for all the gas, anything for whaling \$500 credit and 2 drums of gas. The store gives a \$125 credit.   | 0         | 0        | 0        | 1         | 1         |
|              | We made a boat this year, so the cost of lumber increased the overall cost.   | 1         | 0        | 0        | 0         | 1         |
|              | When you are a successful whaler, you have to buy more things; things to put the whale away, things for the crew, etc.  | 1         | 0        | 0        | 0         | 1         |
| <b>Total</b> |   | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

**Crosstabs: Expectations of Whaling Success in next 5 years? (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C13 In the next 5 years, expectation of whaling success? * Community | 46    | 59.0%   | 32      | 41.0%   | 78    | 100.0%  |

**C13 In the next 5 years, expectation of whaling success? \* Community Crosstabulation**

|  |                 | Community |          |         |          | Total |
|--|-----------------|-----------|----------|---------|----------|-------|
|  |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C13 In the next 5 years, expectation of whaling success? | More successful | 6         | 0        | 1       | 7        | 14    |
|  | About the same  | 12        | 5        | 6       | 6        | 29    |
|  | Less successful | 2         | 0        | 0       | 1        | 3     |
| Total  |                 | 20        | 5        | 7       | 14       | 46    |

**Crosstabs: Why Future Success in Whaling? (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| C13a Why future change in whaling success? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**C13a Why future change in whaling success? \* Community Crosstabulation**

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C13a Why future change in whaling success? | <b>No additional comments offered</b>  | 11        | 0        | 0       | 11       | 22    |
|  | A lot of people are getting proper training and more experience, watching the older whalers.   | 0         | 0        | 0       | 1        | 1     |
|  | All whaling captains want to be successful, and there are hardships that can interfere with harvest success, but all NQT whaling captains work together to achieve the community's quota and their needs. Even if the whalers have to go farther out to find whales, they do so in order to try to fill the quota. NQT whales have been successful in the past with this approach and hope to similarly succeed in the future.   | 0         | 0        | 1       | 0        | 1     |
|  | As long as the quota is a cap, harvest will be about the same. Four is more than enough for a community the size of NQT. That is not to say that some captains do not want the quota raised, but has says that any more would lead to more waste. At present there is sometimes muktuk in the dump, he says -- but it may be from when ice cellars, kunnichuks, and sheds are cleaned out in preparation for whaling. It still represents whale that was not eaten, though. He says that "some whalers are | 0         | 0        | 1       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| just looking for more." [He clearly also believes that NQT whalers are good at what they do, and can be expected in normal years to take whatever their quota is -- but it hesitant to say so explicitly because of cultural modesty -- much less saying NQT whalers could take more if only the quota would allow them to do so].  |           |          |         |          |       |
| Before the Kaktovik whalers go out they hold a meeting of the Kaktovik Whaling Captains Association -- sometimes two meetings -- on how to go out whaling and when (the timing of when they will start). Some captains hear (and act) better than others, but people are supposed to follow the rules, and everybody should be happy - - not get mad at other people. The whales listen to you and know your mind. The whales get together before going to Kaktovik and Barrow and talk about who the good whalers are and who are the ones who are not behaving in the right way. The whales go first to those who are nice to them, who show respect for them. Those who catch whales are those who have no problems with other people and thus show their respect for the whales. Up there (he points up) God talks to them and the whales listen. When things happen in the village and are not exactly right, especially during whaling time, we tell the crew and especially the ladies, not to say anything. You have to keep a positive attitude and not say or feel anything negative -- don't say anything about what is going on or against anyone, even if you know it don't say it. As a captain, just tell them about it as it is -- in terms of what has to be done and not blaming anyone or talking bad about anyone. Don't talk about it. | 0         | 1        | 0       | 0        | 1     |
| Better bombs.   | 0         | 0        | 0       | 1        | 1     |
| Cannot predict.   | 1         | 0        | 0       | 0        | 1     |
| Conditions like the wind and ice change.  | 1         | 0        | 0       | 0        | 1     |
| Crews help each other after striking a whale.   | 1         | 0        | 0       | 0        | 1     |
| Current trend in weather will make it more difficult.   | 0         | 0        | 0       | 1        | 1     |
| Depends on gas prices; how many people will get to go hunting.  | 0         | 0        | 0       | 1        | 1     |
| Depends on ice and weather conditions.  | 1         | 0        | 0       | 0        | 1     |
| Depends on ice conditions.  | 1         | 0        | 0       | 0        | 1     |
| Depends on ice conditions and wind -- Mother Nature.  | 1         | 0        | 0       | 0        | 1     |
| Depends on ice conditions, weather, seasons, could worsen due to ice condition.   | 1         | 0        | 0       | 0        | 1     |
| Depends on nature.  | 1         | 0        | 0       | 0        | 1     |
| Depends on the experience of the crews, weather, etc.   | 1         | 0        | 0       | 0        | 1     |
| Depends on the ice conditions each year.  | 1         | 0        | 0       | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Depends on the weather.  | 0         | 0        | 0       | 2        | 2     |
| Depends on the weather.  | 1         | 0        | 0       | 0        | 1     |
| Depends on the whales; some years they come round more, some years less.   | 0         | 0        | 0       | 1        | 1     |
| Depends on weather.  | 1         | 0        | 0       | 1        | 2     |
| Depends on weather and ice conditions.   | 1         | 0        | 0       | 0        | 1     |
| Do not know the future.  | 1         | 0        | 0       | 0        | 1     |
| Hope it will be the same.  | 0         | 0        | 0       | 1        | 1     |
| If the research vessel traffic stops.  | 1         | 0        | 0       | 0        | 1     |
| If there are no industry activities, success should be about the same as the past, but if there are industry activities expected whale harvest would be less. Respondent says that one year when there was seismic activity in the area NQT whalers did not get any whales. Ice can also be a factor, as in 1983 the ice was so bad that they did not get any whales. Ice has not been a factor in recent years [except by its absence, making the influence of winds and rough seas greater]. | 0         | 0        | 1       | 0        | 1     |
| If we could find the right migration, we'd be more successful.   | 0         | 0        | 0       | 1        | 1     |
| If weapon improvements are made.   | 1         | 0        | 0       | 0        | 1     |
| It all depends on who is working and making money. Those making money get to whale, while those not making money cannot go whaling. A whaling captain needs at least one good boat and motor.  | 0         | 0        | 1       | 0        | 1     |
| It depends -- whales could be deflected by disturbances or not.  | 1         | 0        | 0       | 0        | 1     |
| Kaktovik whalers do things well, and do not anticipate needing to make any big changes to continue doing so. They stress teamwork all the time. No one captain or crew puts himself above the rest.  | 0         | 1        | 0       | 0        | 1     |
| Kaktovik whalers expect to be successful. They have filled the quota for the last, however, many years. Last year they had bad weather and still filled the quota (it just took a longer period of time).  | 0         | 1        | 0       | 0        | 1     |
| Many new captains are unexperienced. They are saying to hell with traditional methods. They try to sneak around the rules by using outboards when they are not supposed to. The whales become spooked. It used to be that outboards were allowed only after May.   | 1         | 0        | 0       | 0        | 1     |
| More successful if weapons are improved, less successful if weather is bad.  | 1         | 0        | 0       | 0        | 1     |
| More workshops, AEWK is telling us to be more efficient in striking, not to strike when too far in order to be more successful, have to think about these things.  | 0         | 0        | 0       | 1        | 1     |
| No elaboration.  | 0         | 1        | 0       | 0        | 1     |
| Outboard motor noise. Also, the quota requires whalers to be more selective.   | 1         | 0        | 0       | 0        | 1     |
| Quota serves as a cap.   | 0         | 0        | 1       | 0        | 1     |

|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Quota will cap the harvest and Kaktovik crews generally seem to fill the harvest. They may work with the new bomb under development fairly soon, and some people say it is very effective and may help kill whales faster.   | 0         | 1        | 0       | 0        | 1     |
|       | Respondent hopes that AEWC will improve hunting techniques.  | 1         | 0        | 0       | 0        | 1     |
|       | Respondent hopes that crews will be more successful, in the sense that he hopes more crews (including his) can go out and NQT whalers can land whales faster [they already take their full quota, and so cannot really increase the number of whales they land].   | 0         | 0        | 1       | 0        | 1     |
|       | Respondent really did not want to answer this question, saying "You never know -- you can't know the future. You don't know if you will even wake up tomorrow." [This may well reflect the cultural norm that you cannot assume future success, even given past].  | 0         | 0        | 1       | 0        | 1     |
|       | Says that he does not know and it is hard to know. What is going to happen will happen and you cannot know the future. If people change, then things can be different. Today he would expect that things would be about the same, but with another mayor [different leadership] things could be different. | 0         | 1        | 0       | 0        | 1     |
|       | Should be a 2-part question. Nuiqsut and Kaktovik. Only do fall whaling. Spring - less, fall -more. Changes by whaling season - average some.  | 1         | 0        | 0       | 0        | 1     |
|       | The 2004 spring season was poor because of ice conditions. Ice break up has a negative effect on crews -- although people can be rescued snow machines and other equipment may be lost.  | 1         | 0        | 0       | 0        | 1     |
|       | They are told to be careful when whale hunting.  | 1         | 0        | 0       | 0        | 1     |
|       | They are trying to be more successful. More boats come to help when whales are struck. Also, super bombs are used.   | 1         | 0        | 0       | 0        | 1     |
|       | We always hope to be more successful. We don't like to be negative.  | 1         | 0        | 0       | 0        | 1     |
|       | We use starting gun and the whale bomb.  | 0         | 0        | 0       | 1        | 1     |
|       | We're comparing our equipment and changing it to eliminate strike and loss - we help with the workshops.   | 0         | 0        | 0       | 1        | 1     |
|       | Whales don't come around as often, it'll be less, if they go further.  | 0         | 0        | 0       | 1        | 1     |
|       | Who can say what will happen? There is no way to tell. All sorts of things could happen one way or the other. There could be all sorts of industrial activity or other changes that may take place.  | 0         | 1        | 0       | 0        | 1     |
|       | With the quota, what the crews don't catch in the spring, they catch in the fall.  | 1         | 0        | 0       | 0        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Coded Reasons for Future Whaling Success (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| Coded Reasons for future success * Community | 53    | 67.9%   | 25      | 32.1%   | 78    | 100.0%  |

**C13a Coded Reasons for future success \* Community Crosstabulation**

|                                       |                                   | Community |          |         |          | Total |
|---------------------------------------|-----------------------------------|-----------|----------|---------|----------|-------|
|                                       |                                   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C13a Coded Reasons for future success | Cannot predict future             | 8         | 5        | 1       | 4        | 18    |
|                                       | Depends on climate                | 11        | 0        | 0       | 4        | 15    |
|                                       | Depends on development activities | 7         | 1        | 5       | 3        | 16    |
|                                       | Depends on behavior of whales     | 1         | 0        | 0       | 3        | 4     |
| Total                                 |                                   | 27        | 6        | 6       | 14       | 53    |

**Crosstabs: Future Importance of Whaling for Youth? (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C14 In the next 5 years, importance of Bowhead Whaling for youth? * Community | 71    | 91.0%   | 7       | 9.0%    | 78    | 100.0%  |

**C14 In the next 5 years, importance of Bowhead Whaling for youth? \* Community Crosstabulation**

|   |                | Community |          |         |          | Total |
|---|----------------|-----------|----------|---------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C14 In the next 5 years, importance of Bowhead Whaling for youth? | More important | 16        | 4        | 2       | 13       | 35    |
|   | About the same | 14        | 2        | 4       | 9        | 29    |
|   | Less important | 5         | 0        | 1       | 1        | 7     |
| Total   |                | 35        | 6        | 7       | 23       | 71    |

**Crosstabs: Why Changes in Importance for Youth?**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| C14a Why change in importance of Bowhead Whaling for youth? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**C14a Why change in importance of Bowhead Whaling for youth? \* Community Crosstabulation**

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| C14a Why change in importance of Bowhead Whaling for youth? |  | 38        | 7        | 7       | 25       | 77    |
| Total   |  | 38        | 7        | 7       | 25       | 77    |

**PART D: SUBSISTENCE AND CULTURAL  
ACTIVITIES OTHER THAN WHALING**





## PART D: SUBSISTENCE AND CULTURAL ACTIVITIES OTHER THAN WHALING

### Crosstabs: During the Last 12 Months, What Land Mammals Hunted? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.1.a.1 Do HH members hunt land mammals - Bison * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.2 Do HH members hunt land mammals - Black Bear * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.3 Do HH members hunt land mammals - Brown Bear * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.4 Do HH members hunt land mammals - Caribou * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.5 Do HH members hunt land mammals - Goat * Community       | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.6 Do HH members hunt land mammals - Moose * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.7 Do HH members hunt land mammals - Sheep * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.8 Do HH members hunt land mammals - Beaver * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.9 Do HH members hunt land mammals - Coyote * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.10 Do HH members hunt land mammals - Fox * Community       | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.11 Do HH members hunt land mammals - Hare * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.12 Do HH members hunt land mammals - Lynx * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.13 Do HH members hunt land mammals - Porcupine * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.14 Do HH members hunt land mammals - Squirrel * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.15 Do HH members hunt land mammals - Wolf * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.16 Do HH members hunt land mammals - Wolverine * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.a.17 Do HH members hunt land mammals - Other * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### D.1.a.1 During last 12 months, what land mammals have you hunted - Bison \* Community Crosstabulation

|   |                | Community |          |        |          | Total |
|---|----------------|-----------|----------|--------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuqsut | Savoonga |       |
| D.1.a.1 Do HH members hunt land mammals - Bison | Not identified | 38        | 7        | 7      | 25       | 77    |
| Total   |                | 38        | 7        | 7      | 25       | 77    |

**D.1.a.4 During last 12 months, what land mammals have you hunted - Caribou \* Community Crosstabulation**

|   |                | Community |          |         |          | Total |
|---|----------------|-----------|----------|---------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.4 Do HH members hunt land mammals - Caribou | Not identified | 5         | 2        | 0       | 22       | 29    |
|   | Yes            | 33        | 5        | 7       | 3        | 48    |
| Total   |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.5 During last 12 months, what land mammals have you hunted - Goat \* Community Crosstabulation**

|  |                | Community |          |         |          | Total |
|--|----------------|-----------|----------|---------|----------|-------|
|  |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.5 Do HH members hunt land mammals - Goat | Not identified | 38        | 7        | 7       | 25       | 77    |
| Total  |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.6 During last 12 months, what land mammals have you hunted - Moose \* Community Crosstabulation**

|   |                | Community |          |         |          | Total |
|---|----------------|-----------|----------|---------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.6 Do HH members hunt land mammals - Moose | Not identified | 36        | 6        | 1       | 25       | 68    |
|   | Yes            | 2         | 1        | 6       | 0        | 9     |
| Total   |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.7 During last 12 months, what land mammals have you hunted - Sheep \* Community Crosstabulation**

|   |                | Community |          |         |          | Total |
|---|----------------|-----------|----------|---------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.7 Do HH members hunt land mammals - Sheep | Not identified | 38        | 5        | 7       | 25       | 75    |
|   | Yes            | 0         | 2        | 0       | 0        | 2     |
| Total   |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.8 During last 12 months, what land mammals have you hunted - Beaver \* Community Crosstabulation**

|  |                | Community |          |         |          | Total |
|--|----------------|-----------|----------|---------|----------|-------|
|  |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.8 Do HH members hunt land mammals - Beaver | Not identified | 38        | 7        | 7       | 25       | 77    |
| Total  |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.9 During last 12 months, what land mammals have you hunted - Coyote \* Community Crosstabulation**

|  |                | Community |          |         |          | Total |
|--|----------------|-----------|----------|---------|----------|-------|
|  |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.9 Do HH members hunt land mammals - Coyote | Not identified | 38        | 7        | 7       | 25       | 77    |
| Total  |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.11 During last 12 months, what land mammals have you hunted - Hare \* Community Crosstabulation**

|   |                | Community |          |         |          | Total |
|---|----------------|-----------|----------|---------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.11 Do HH members hunt land mammals - Hare | Not identified | 37        | 7        | 7       | 25       | 76    |
|   | Yes            | 1         | 0        | 0       | 0        | 1     |
| Total   |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.12 During last 12 months, what land mammals have you hunted - Lynx \* Community Crosstabulation**

|   |                | Community |          |         |          | Total |
|---|----------------|-----------|----------|---------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.12 Do HH members hunt land mammals - Lynx | Not identified | 35        | 7        | 6       | 25       | 73    |
|   | Yes            | 3         | 0        | 1       | 0        | 4     |
| Total   |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.14 During last 12 months, what land mammals have you hunted - Squirrel \* Community Crosstabulation**

|   |                | Community |          |         |          | Total |
|---|----------------|-----------|----------|---------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.14 Do HH members hunt land mammals - Squirrel | Not identified | 35        | 7        | 7       | 25       | 74    |
|   | Yes            | 3         | 0        | 0       | 0        | 3     |
| Total   |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.15 During last 12 months, what land mammals have you hunted - Wolf \* Community Crosstabulation**

|   |                | Community |          |         |          | Total |
|---|----------------|-----------|----------|---------|----------|-------|
|   |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.15 Do HH members hunt land mammals - Wolf | Not identified | 26        | 6        | 1       | 25       | 58    |
|   | Yes            | 12        | 1        | 6       | 0        | 19    |
| Total   |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.16 Do During last 12 months, what land mammals have you hunted - Wolverine \* Community Crosstabulation**

|  |                | Community |          |         |          | Total |
|--|----------------|-----------|----------|---------|----------|-------|
|  |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.16 Do HH members hunt land mammals - Wolverine | Not identified | 25        | 5        | 1       | 25       | 56    |
|  | Yes            | 13        | 2        | 6       | 0        | 21    |
| Total  |                | 38        | 7        | 7       | 25       | 77    |

**D.1.a.17 During last 12 months, what land mammals have you hunted - Other \* Community Crosstabulation**

|  |                | Community |          |         |          | Total |
|--|----------------|-----------|----------|---------|----------|-------|
|  |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.a.17 Do HH members hunt land mammals - Other | Not identified | 37        | 7        | 7       | 25       | 76    |
|  | Yes            | 1         | 0        | 0       | 0        | 1     |
| Total  |                | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: During the Last 12 Months, What Animals Have You Trapped?  
(WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.1.b.1 Do HH Members Trap Animals<br>- Beaver * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.2 Do HH Members Trap Animals<br>- Coyote * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.3 Do HH Members Trap Animals<br>- Fox * Community        | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.4 Do HH Members Trap Animals<br>- Hare * Community       | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.5 Do HH Members Trap Animals<br>- Lynx * Community       | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.6 Do HH Members Trap Animals<br>- Marmot * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.7 Do HH Members Trap Animals<br>- Marten * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.8 Do HH Members Trap Animals<br>- Mink * Community       | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.9 Do HH Members Trap Animals<br>- Muskrat * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.10 Do HH Members Trap Animals<br>- Otter * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.11 Do HH Members Trap Animals<br>- Weasel * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.12 Do HH Members Trap Animals<br>- Wolf * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.b.13 Do HH Members Trap Animals<br>- Wolverine * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**D.1.b.1 Trap Animals - Beaver \* Community Crosstabulation**

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.1 Do HH Members Trap Animals - Beaver | No | 38        | 7        | 7       | 25       | 77    |
| Total                                       |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.2 Trap Animals - Coyote \* Community Crosstabulation**

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.2 Do HH Members Trap Animals - Coyote | No | 38        | 7        | 7       | 25       | 77    |
| Total                                       |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.3 Trap Animals - Fox \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.3 Do HH Members Trap Animals - Fox | No  | 35        | 7        | 7       | 25       | 74    |
|  | Yes | 3         | 0        | 0       | 0        | 3     |
| Total                                    |     | 38        | 7        | 7       | 25       | 77    |

**D.1.b.4 Trap Animals - Hare \* Community Crosstabulation**

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.4 Do HH Members Trap Animals - Hare | No | 38        | 7        | 7       | 25       | 77    |
| Total                                     |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.5 Trap Animals - Lynx \* Community Crosstabulation**

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.5 Do HH Members Trap Animals - Lynx | No | 38        | 7        | 7       | 25       | 77    |
| Total                                     |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.6 Trap Animals - Marmot \* Community Crosstabulation**

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.6 Do HH Members Trap Animals - Marmot | No | 38        | 7        | 7       | 25       | 77    |
| Total                                       |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.8 Trap Animals - Mink \* Community Crosstabulation**

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.8 Do HH Members Trap Animals - Mink | No | 38        | 7        | 7       | 25       | 77    |
| Total                                     |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.9 Trap Animals - Muskrat \* Community Crosstabulation**

|  |    | Community |          |         |          | Total |
|--|----|-----------|----------|---------|----------|-------|
|  |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.9 Do HH Members Trap Animals - Muskrat | No | 38        | 7        | 7       | 25       | 77    |
| Total  |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.10 Trap Animals - Otter \* Community Crosstabulation**

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.10 Do HH Members Trap Animals - Otter | No | 38        | 7        | 7       | 25       | 77    |
| Total                                       |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.11 Trap Animals - Weasel \* Community Crosstabulation**

|  |    | Community |          |         |          | Total |
|--|----|-----------|----------|---------|----------|-------|
|  |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.11 Do HH Members Trap Animals - Weasel | No | 38        | 7        | 7       | 25       | 77    |
| Total  |    | 38        | 7        | 7       | 25       | 77    |

**D.1.b.12 Trap Animals - Wolf \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.12 Do HH Members Trap Animals - Wolf | No  | 37        | 7        | 7       | 25       | 76    |
|  | Yes | 1         | 0        | 0       | 0        | 1     |
| Total                                      |     | 38        | 7        | 7       | 25       | 77    |

**D.1.b.13 Trap Animals - Wolverine \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.b.13 Do HH Members Trap Animals - Wolverine | No  | 35        | 7        | 7       | 25       | 74    |
|   | Yes | 3         | 0        | 0       | 0        | 3     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

## Crosstabs: During the Last 12 Months, What Marine Mammals Have You Hunted? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.1.c.1 Do HH Members hunt Marine Mammals - Polar Bear * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.c.2 Do HH Members hunt Marine Mammals - Bearded Seal * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.c.3 Do HH Members hunt Marine Mammals - Ribbon Seal * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.c.4 Do HH Members hunt Marine Mammals - Spotted Seal * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.c.5 Do HH Members hunt Marine Mammals - Walrus * Community       | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.c.6 Do HH Members hunt Marine Mammals - Beluga * Community       | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.c.7 Do HH Members hunt Marine Mammals - Bowhead * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.c.8 Do HH Members hunt Marine Mammals - Gray Whale * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.c.9 Do HH Members hunt Marine Mammals - Minke Whale * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D.1.c.1 Hunt Marine Mammals - Polar Bear \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.1 Do HH Members hunt Marine Mammals - Polar Bear | No  | 24        | 6        | 4       | 19       | 53    |
|  | Yes | 14        | 1        | 3       | 6        | 24    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

### D.1.c.2 Hunt Marine Mammals - Bearded Seal \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.2 Do HH Members hunt Marine Mammals - Bearded Seal | No  | 5         | 3        | 0       | 1        | 9     |
|  | Yes | 33        | 4        | 7       | 24       | 68    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

### D.1.c.3 Hunt Marine Mammals - Ribbon Seal \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.3 Do HH Members hunt Marine Mammals - Ribbon Seal | No  | 31        | 7        | 7       | 13       | 58    |
|   | Yes | 7         | 0        | 0       | 12       | 19    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

### D.1.c.4 Hunt Marine Mammals - Spotted Seal \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.4 Do HH Members hunt Marine Mammals - Spotted Seal | No  | 20        | 2        | 1       | 3        | 26    |
|  | Yes | 18        | 5        | 6       | 22       | 51    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |



**D.1.c.5 Hunt Marine Mammals - Walrus \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.5 Do HH Members hunt<br>Marine Mammals - Walrus | No  | 9         | 7        | 7       | 1        | 24    |
|   | Yes | 29        | 0        | 0       | 24       | 53    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D.1.c.6 Hunt Marine Mammals - Beluga \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.6 Do HH Members hunt<br>Marine Mammals - Beluga | No  | 26        | 4        | 6       | 24       | 60    |
|   | Yes | 12        | 3        | 1       | 1        | 17    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D.1.c.7 Hunt Marine Mammals - Bowhead \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.7 Do HH Members hunt<br>Marine Mammals - Bowhead | No  | 8         | 2        | 3       | 2        | 15    |
|  | Yes | 30        | 5        | 4       | 23       | 62    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D.1.c.8 Hunt Marine Mammals - Gray Whale \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.8 Do HH Members hunt<br>Marine Mammals - Gray Whale | No  | 38        | 7        | 7       | 24       | 76    |
|   | Yes | 0         | 0        | 0       | 1        | 1     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D.1.c.9 Hunt Marine Mammals - Minke Whale \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.c.9 Do HH Members hunt<br>Marine Mammals - Minke Whale | No  | 38        | 7        | 7       | 21       | 73    |
|  | Yes | 0         | 0        | 0       | 4        | 4     |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: During the Last 12 Months, What Fish Have You Harvested?  
Harvesting of Fish (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.1.d.1 Do HH Members harvest fish - Char * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.d.2 Do HH Members harvest fish - Grayling * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.d.3 Do HH Members harvest fish - Herring * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.d.4 Do HH Members harvest fish - Pike * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.d.5 Do HH Members harvest fish - Salmon * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.d.6 Do HH Members harvest fish - Sheefish * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.d.7 Do HH Members harvest fish - Trout * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.d.8 Do HH Members harvest fish - Whitefish * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**D.1.d.1 Harvest fish - Char \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.d.1 Do HH Members harvest fish - Char | No  | 29        | 2        | 4       | 19       | 54    |
|   | Yes | 9         | 5        | 3       | 6        | 23    |
| Total                                     |     | 38        | 7        | 7       | 25       | 77    |

**D.1.d.2 Harvest fish - Grayling \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.d.2 Do HH Members harvest fish - Grayling | No  | 14        | 4        | 0       | 9        | 27    |
|   | Yes | 24        | 3        | 7       | 16       | 50    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D.1.d.3 Harvest fish - Herring \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.d.3 Do HH Members harvest fish - Herring | No  | 34        | 7        | 6       | 25       | 72    |
|  | Yes | 4         | 0        | 1       | 0        | 5     |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D.1.d.4 Harvest fish - Pike \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.d.4 Do HH Members harvest fish - Pike | No  | 30        | 7        | 5       | 24       | 66    |
|   | Yes | 8         | 0        | 2       | 1        | 11    |
| Total                                     |     | 38        | 7        | 7       | 25       | 77    |

**D.1.d.5 Harvest fish - Salmon \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.d.5 Do HH Members harvest fish - Salmon | No  | 17        | 4        | 4       | 13       | 38    |
|   | Yes | 21        | 3        | 3       | 12       | 39    |
| Total                                       |     | 38        | 7        | 7       | 25       | 77    |

**D.1.d.6 Harvest fish - Sheefish \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.d.6 Do HH Members harvest fish - Sheefish | No  | 37        | 7        | 7       | 25       | 76    |
|   | Yes | 1         | 0        | 0       | 0        | 1     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D.1.d.7 Harvest fish - Trout \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.d.7 Do HH Members harvest fish - Trout | No  | 27        | 6        | 4       | 13       | 50    |
|  | Yes | 11        | 1        | 3       | 12       | 27    |
| Total                                      |     | 38        | 7        | 7       | 25       | 77    |

**D.1.d.8 Harvest fish - Whitefish \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.d.8 Do HH Members harvest fish - Whitefish | No  | 10        | 1        | 0       | 17       | 28    |
|  | Yes | 28        | 6        | 7       | 8        | 49    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: During the Last 12 Months, What Birds Have You Hunted Or Eggs Have You Collected? Harvesting of birds and eggs (WC) - All Communities**

|         |   | Cases |         |         |         |       |         |
|---------|---|-------|---------|---------|---------|-------|---------|
|         |   | Valid |         | Missing |         | Total |         |
|         |   | N     | Percent | N       | Percent | N     | Percent |
| D.1.e.1 | Do HH Members harvest birds - Ducks * Community           | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
|         | Do HH Members collect eggs - Duck eggs * Community        | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.e.2 | Do HH Members harvest birds - Geese * Community           | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
|         | Do HH Members collect eggs - Geese eggs * Community       | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.e.3 | Do HH Members harvest birds - Swans * Community           | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.e.4 | Do HH Members harvest birds - Cranes * Community          | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.e.5 | Do HH Members harvest birds - Shorebirds * Community      | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
|         | Do HH Members collect eggs - Shorebird eggs * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.e.6 | Do HH Members harvest birds - Other Birds * Community     | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
|         | Do HH Members collect eggs - Other Birds eggs * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**D.1.e.1 Harvest birds - Ducks \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.1 Do HH Members harvest birds - Ducks | No  | 7         | 1        | 0       | 9        | 17    |
|   | Yes | 31        | 6        | 7       | 16       | 60    |
| Total                                       |     | 38        | 7        | 7       | 25       | 77    |

**Collect Eggs - Duck Eggs \* Community Crosstabulation**

|  |    | Community |          |         |          | Total |
|--|----|-----------|----------|---------|----------|-------|
|  |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.1 Do HH Members Collect Eggs - Duck Eggs | No | 38        | 7        | 7       | 25       | 77    |
| Total  |    | 38        | 7        | 7       | 25       | 77    |

**D.1.e.2 Harvest birds - Geese \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.2 Do HH Members harvest birds - Geese | No  | 6         | 1        | 0       | 12       | 19    |
|   | Yes | 32        | 6        | 7       | 13       | 58    |
| Total                                       |     | 38        | 7        | 7       | 25       | 77    |

**Collect Eggs - Geese Eggs \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.2 Do HH Members Collect Eggs - Geese Eggs | No  | 35        | 7        | 7       | 24       | 73    |
|   | Yes | 3         | 0        | 0       | 1        | 4     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D.1.e.3 Harvest birds - Swans \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.3 Do HH Members harvest birds - Swans | No  | 33        | 7        | 6       | 24       | 70    |
|   | Yes | 5         | 0        | 1       | 1        | 7     |
| Total                                       |     | 38        | 7        | 7       | 25       | 77    |

**D.1.e.4 Harvest birds - Cranes \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.4 Do HH Members harvest birds - Cranes | No  | 34        | 7        | 6       | 23       | 70    |
|  | Yes | 4         | 0        | 1       | 2        | 7     |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D.1.e.5 Harvest birds - Shorebirds \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.5 Do HH Members harvest birds - Shorebirds | No  | 36        | 7        | 7       | 14       | 64    |
|  | Yes | 2         | 0        | 0       | 11       | 13    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**Collect Eggs - Shorebird Eggs \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.5 Do HH Members Collect Eggs - Shorebird Eggs | No  | 37        | 7        | 7       | 19       | 70    |
|   | Yes | 1         | 0        | 0       | 6        | 7     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D.1.e.6 Harvest birds - Other Birds \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.6 Do HH Members harvest birds - Other Birds | No  | 37        | 7        | 7       | 25       | 76    |
|   | Yes | 1         | 0        | 0       | 0        | 1     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**Collect Other Birds Eggs. \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.e.6 Do HH Members Collect Other Birds Eggs | No  | 36        | 7        | 7       | 18       | 68    |
|  | Yes | 2         | 0        | 0       | 7        | 9     |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

## Crosstabs: Harvesting of Plants (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.1.f.1 Do HH Members harvest Plants - Berries * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.f.2 Do HH Members harvest Plants - Plants * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.f.3 Do HH Members harvest Plants - Wood * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D.1.f.1 Do HH Members harvest Plants - Berries \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.f.1 Do HH Members harvest Plants - Berries | No  | 26        | 4        | 1       | 5        | 36    |
|  | Yes | 12        | 3        | 6       | 20       | 41    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

### D.1.f.2 Do HH Members harvest Plants - Plants \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.f.2 Do HH Members harvest Plants - Plants | No  | 32        | 6        | 6       | 12       | 56    |
|   | Yes | 6         | 1        | 1       | 13       | 21    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

### D.1.f.3 Do HH Members harvest Plants - Wood \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.f.3 Do HH Members harvest Plants - Wood | No  | 37        | 6        | 7       | 25       | 75    |
|   | Yes | 1         | 1        | 0       | 0        | 2     |
| Total                                       |     | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: In the Last 12 Months, What Crafts Have You Made or Sold?  
(WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D.1.g.2 Have HH Members made or sold crafts in last 12 months? Craft #2 * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.g.3 Have HH Members made or sold crafts in last 12 months? Craft #3 * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.g.4 Have HH Members made or sold crafts in last 12 months? Craft #4 * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.g.5 Have HH Members made or sold crafts in last 12 months? Craft #5 * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**D.1.g.2 Made or sold crafts? Craft #2 \* Community Crosstabulation**

|   |                                       | Community |          |         |          | Total |
|---|---------------------------------------|-----------|----------|---------|----------|-------|
|   |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.g.2 Have HH Members made or sold crafts in last 12 months? Craft #2 | <b>No additional comments offered</b> | 35        | 7        | 6       | 23       | 71    |
|   | handicrafts out of baleen             | 0         | 0        | 0       | 1        | 1     |
|   | harpoon tips for sealing              | 1         | 0        | 0       | 0        | 1     |
|   | Ivory                                 | 1         | 0        | 0       | 0        | 1     |
|   | skin scrapper maker                   | 0         | 0        | 1       | 0        | 1     |
|   | Sleds                                 | 1         | 0        | 0       | 0        | 1     |
|   | whale vertebrate                      | 0         | 0        | 0       | 1        | 1     |
| Total   |                                       | 38        | 7        | 7       | 25       | 77    |

**D.1.g.3 Made or sold crafts? Craft #3 \* Community Crosstabulation**

|   |                                       | Community |          |         |          | Total |
|---|---------------------------------------|-----------|----------|---------|----------|-------|
|   |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.g.3 Have HH Members made or sold crafts in last 12 months? Craft #3 | <b>No additional comments offered</b> | 37        | 7        | 7       | 24       | 75    |
|   | Bones                                 | 0         | 0        | 0       | 1        | 1     |
|   | flint tool handles                    | 1         | 0        | 0       | 0        | 1     |
|   | Total                                 | 38        | 7        | 7       | 25       | 77    |

**D.1.g.4 Made or sold crafts? Craft #4 \* Community Crosstabulation**

|   |                                       | Community |          |         |          | Total |
|---|---------------------------------------|-----------|----------|---------|----------|-------|
|   |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.g.4 Have HH Members made or sold crafts in last 12 months? Craft #4 | <b>No additional comments offered</b> | 37        | 7        | 7       | 25       | 76    |
|   | harpoon shaft                         | 1         | 0        | 0       | 0        | 1     |
| Total   |                                       | 38        | 7        | 7       | 25       | 77    |

**D.1.g.5 Made or sold crafts? Craft #5 \* Community Crosstabulation**

|   |                                       | Community |          |         |          | Total |
|---|---------------------------------------|-----------|----------|---------|----------|-------|
|   |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.g.5 Have HH Members made or sold crafts in last 12 months? Craft #5 | <b>No additional comments offered</b> | 37        | 7        | 7       | 25       | 76    |
|   | (crafts are not sold)                 | 1         | 0        | 0       | 0        | 1     |
| Total   |                                       | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: In the Last 12 Months, What Other Resources Have You Harvested? Harvesting of “Other Resources” (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D.1.h.1 Have HH Members harvested Marine invertebrates - Clams * Community                | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.h.2 Have HH Members harvested Marine invertebrates - Crabs * Community                | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.h.3 Have HH Members harvested Marine invertebrates - Mussels * Community              | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.h.4 Have HH Members harvested Marine invertebrates - Shrimp * Community               | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D.1.h.5 Have HH Members harvested Marine invertebrates - Other Marine Invert. * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**D.1.h.1 Harvested Other Resources - Clams \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.h.1 Have HH Members harvested Marine invertebrates - Clams | No  | 26        | 7        | 7       | 16       | 56    |
|  | Yes | 12        | 0        | 0       | 9        | 21    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D.1.h.2 Harvested Other Resources - Crabs \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.h.2 Have HH Members harvested Marine invertebrates - Crabs | No  | 35        | 7        | 7       | 18       | 67    |
|  | Yes | 3         | 0        | 0       | 7        | 10    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D.1.h.3 Harvested Other Resources - Mussels \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.h.3 Have HH Members harvested Marine invertebrates - Mussels | No  | 38        | 7        | 7       | 24       | 76    |
|  | Yes | 0         | 0        | 0       | 1        | 1     |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D.1.h.4 Harvested Other Resources - Shrimp \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.h.4 Have HH Members harvested Marine invertebrates - Shrimp | No  | 37        | 7        | 7       | 24       | 75    |
|   | Yes | 1         | 0        | 0       | 1        | 2     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D.1.h.5 Harvested Other Resources - Other Marine Invert. \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.1.h.5 Have HH Members harvested Marine invertebrates - Other Marine Invert. | No  | 37        | 7        | 7       | 24       | 75    |
|   | Yes | 1         | 0        | 0       | 1        | 2     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |



## SUBSISTENCE: PARTICIPATION & CHANGE

### Crosstabs: Who Participated with You in Each Subsistence Category? - (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2a1 Land Mammals: With Whaling Crew Member * Community                  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2a2 Land Mammals: With More than One Whaling Crew Member * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2a3 Land Mammals: With Other Household Member * Community               | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2a4 Land Mammals: With Relative in Another Household Member * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2a5 Land Mammals: With Friend in Another Household Member * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2a6 Land Mammals: With Other * Community                                | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### D2a1 Land Mammals: With Whaling Crew Member \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2a1 Land Mammals: With Whaling Crew Member | No  | 30        | 7        | 7       | 25       | 69    |
|   | Yes | 8         | 0        | 0       | 0        | 8     |
| Total                                       |     | 38        | 7        | 7       | 25       | 77    |

#### D2a2 Land Mammals: With More than One Whaling Crew Member \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2a2 Land Mammals: With More than One Whaling Crew Member | No  | 21        | 7        | 7       | 24       | 59    |
|   | Yes | 17        | 0        | 0       | 1        | 18    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

#### D2a3 Land Mammals: With Other Household Member \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2a3 Land Mammals: With Other Household Member | No  | 14        | 3        | 0       | 24       | 41    |
|  | Yes | 24        | 4        | 7       | 1        | 36    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

#### D2a4 Land Mammals: With Relative in Another Household Member \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2a4 Land Mammals: With Relative in Another Household Member | No  | 14        | 4        | 3       | 25       | 46    |
|  | Yes | 24        | 3        | 4       | 0        | 31    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2a5 Land Mammals: With Friend in Another Household Member \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2a5 Land Mammals: With Friend in Another Household Member | No  | 32        | 6        | 5       | 25       | 68    |
|  | Yes | 6         | 1        | 2       | 0        | 9     |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2a6 Land Mammals: With Other \* Community Crosstabulation**

|                               |     | Community |          |         |          | Total |
|-------------------------------|-----|-----------|----------|---------|----------|-------|
|                               |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2a6 Land Mammals: With Other | No  | 37        | 7        | 7       | 25       | 76    |
|                               | Yes | 1         | 0        | 0       | 0        | 1     |
| Total                         |     | 38        | 7        | 7       | 25       | 77    |

**D2a6txt Land Mammals: Name of Other \* Community Crosstabulation**

|                                     |                                       | Community |          |         |          | Total |
|-------------------------------------|---------------------------------------|-----------|----------|---------|----------|-------|
|                                     |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2a6txt Land Mammals: Name of Other | <b>No additional comments offered</b> | 36        | 7        | 7       | 25       | 75    |
|                                     | son                                   | 1         | 0        | 0       | 0        | 1     |
|                                     | wife, children                        | 1         | 0        | 0       | 0        | 1     |
| Total                               |                                       | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Change in Hunting Land Mammals (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2aP Land Mammals: Change in Participation compared to last 5 years? * Community | 47    | 60.3%   | 31      | 39.7%   | 78    | 100.0%  |

## Crosstabs: Why Participation in Hunting Land Mammals has Changed (WC) - All communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D2aPtxt Land Mammals: Why change in participation compared to last 5 years? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D2aPtxt Land Mammals: Why change in participation compared to last 5 years? \* Community Crosstabulation

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2aPtxt Land Mammals: Why change in participation compared to last 5 years? | <b>No additional comments offered</b>  | 21        | 0        | 0       | 25       | 46    |
|   | Aging  | 1         | 0        | 0       | 0        | 1     |
|   | His personal harvest of subsistence resources has declined as he gets older.   | 1         | 0        | 0       | 0        | 1     |
|   | Goes by himself. Goes out less because of work -- more hours and responsibility because of the new system.   | 0         | 1        | 0       | 0        | 1     |
|   | Even without his big boat (and lacking a small boat) he can find others to "follow" or borrow a boat. Goes with in-laws, friends, or son -- or son goes with relatives or friends without respondent. In winter will use snow machine with friends or his son (or son with relatives and/or his friends). Shares harvest widely. | 0         | 0        | 1       | 0        | 1     |
|   | Goes by himself, or with family members, or cousins or nephews. Size of party can vary, but almost always is relatives. Noted that most relatives will also be members of the whaling crew.  | 0         | 0        | 1       | 0        | 1     |
|   | Goes by self, or with son, or in-laws, or son and in-laws will go. Once in a while with friends if the caribou are close. Same people as the whaling crew.   | 0         | 1        | 0       | 0        | 1     |
|   | Goes out with son or sons. Goes out less than in the past, since when he does go out he seems to get cold faster than in the past. Sons will go out by themselves. He will also go by himself sometimes, especially if the animals are close by.   | 0         | 1        | 0       | 0        | 1     |
|   | Harvests with his kids (sons), who are also members of his whaling crew. They only harvest what they need, and take whatever is available and in season.   | 0         | 0        | 1       | 0        | 1     |
|   | Access to subsistence resources has been reduced because charter plane service is no longer available.   | 1         | 0        | 0       | 0        | 1     |
|   | Hunts with sons, but his health is poorer and he is going less. Sons also go on their own.   | 0         | 0        | 1       | 0        | 1     |
|   | I like local food more as I get older. Also, I want my son to be more active in subsistence activities.  | 1         | 0        | 0       | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Increased participation in all subsistence activities because of the responsibility of the captain to provide supplies for crew.   | 1         | 0        | 0       | 0        | 1     |
| Job reduces time available for subsistence activities.   | 1         | 0        | 0       | 0        | 1     |
| Job, family and health issues. Also, with declining revenues the NSB is less flexible about allowing employees subsistence leave.  | 1         | 0        | 0       | 0        | 1     |
| Just started hunting 2 years ago and would like to go more since he caught the first one.  | 1         | 0        | 0       | 0        | 1     |
| My family is growing. Also, I share with other family members.   | 1         | 0        | 0       | 0        | 1     |
| No caribou, maybe because of the oil drilling near fish camp.  | 1         | 0        | 0       | 0        | 1     |
| No reason.   | 1         | 0        | 0       | 0        | 1     |
| Only hunts with family; crew only gets together for whaling.   | 1         | 0        | 0       | 0        | 1     |
| Problems with snowmobile.  | 1         | 0        | 0       | 0        | 1     |
| Relatives want more meat and depend on him and his HH -- and more so since his father passed away. Who he goes with depends on time of year and how far he is going. In the summer by boat he will take the family, while wolf hunting in the winter on snow machine he will go only with his sons. Sometimes his sons will go without him but with their cousins and/or uncles or a combination thereof. There is a lot of flexibility. One of his sons is pretty much a full-time hunter, although he will take seasonal jobs.   | 0         | 0        | 1       | 0        | 1     |
| Respondent does not go very often any more -- only when the weather is good and the animals are close (and he goes mostly for caribou). He will go by himself or with his spouse. Most of the HH caribou and other land mammals are taken by his sons who go with their friends.   | 0         | 1        | 0       | 0        | 1     |
| Respondent gave similar answers for most resources. He hunts less now because he has more responsibility at work (and can take less time off), he travels more for work out of town, and in general has less time for hunting. He now hunts mainly with his oldest son (teenager in the HH), in order to teach him (this son is also a member of his whaling crew). He used to hunt a lot with a friend (and whaling crew member) but as both they and their kids got older each tended to hunt more with their kids and not with each other. Both gave this same answer on their surveys. | 0         | 0        | 1       | 0        | 1     |
| Respondent participates in the same cycle of activities each year.   | 1         | 0        | 0       | 0        | 1     |
| Retired – don't hunt them anymore.   | 0         | 1        | 0       | 0        | 1     |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Retired -- sons do all the hunting (applies to all resource categories).  | 0         | 1        | 0       | 0        | 1     |
|       | Sometimes go by self, mostly with family (own HH) when camping, sometimes with other relatives.   | 0         | 1        | 0       | 0        | 1     |
|       | Son is becoming more experienced in hunting and providing more of the subsistence food.   | 1         | 0        | 0       | 0        | 1     |
|       | Sons are taking over the subsistence hunting activities.  | 1         | 0        | 0       | 0        | 1     |
|       | We hunt more but catch less because of migration patterns changing - now we have to go further out.   | 1         | 0        | 0       | 0        | 1     |
|       | Will go solo on snow machine, or with whoever wants to go (immediate family members). Noted that these immediate family members are all whaling crew members as well. Respondent used to hunt often with one particular friend, but since each have sons now (and work full time) they seldom hunt together now, hunting with their sons when they can. Respondent says he hunts less than before since he works so much now. "You can't buy gas without work" but you can't go out [as often as you would like] if you have to work. He says that work comes first, not like in the old-times. | 0         | 0        | 1       | 0        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Coded Explanations for Changes Participation in Hunting Land Mammals (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Why participation in Hunting Land Mammals Changes * Community | 30    | 38.5%   | 48      | 61.5%   | 78    | 100.0%  |

### D4 Why participation in Hunting Land Mammals Changes \* Community Crosstabulation

|  |                             | Community |          |         | Total |
|--|-----------------------------|-----------|----------|---------|-------|
|  |                             | Barrow    | Kaktovik | Nuiqsut |       |
| D4 Why participation in Hunting Land Mammals Changes | Individual Explanations     | 13        | 7        | 5       | 25    |
|  | Human Influences            | 1         | 0        | 1       | 2     |
|  | Effects of Oil Development  | 1         | 0        | 0       | 1     |
|  | Observation without Comment | 1         | 0        | 1       | 2     |
| Total  |                             | 16        | 7        | 7       | 30    |

## Crosstabs: Whaling Captains & Participation in Hunting Marine Mammals - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2c1 Marine Mammals: With Whaling Crew Member * Community                  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2c2 Marine Mammals: With More than One Whaling Crew Member * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2c3 Marine Mammals: With Other Household Member * Community               | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2c4 Marine Mammals: With Relative in Another Household Member * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2c5 Marine Mammals: With Friend in Another Household Member * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2c6 Marine Mammals: With Other * Community                                | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2c6txt Marine Mammals: Name of Other * Community                          | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D2c1 Marine Mammals: With Whaling Crew Member \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2c1 Marine Mammals: With Whaling Crew Member | No  | 32        | 6        | 7       | 23       | 68    |
|   | Yes | 6         | 1        | 0       | 2        | 9     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

### D2c2 Marine Mammals: With More than One Whaling Crew Member \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2c2 Marine Mammals: With More than One Whaling Crew Member | No  | 23        | 6        | 7       | 9        | 45    |
|   | Yes | 15        | 1        | 0       | 16       | 32    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

### D2c3 Marine Mammals: With Other Household Member \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2c3 Marine Mammals: With Other Household Member | No  | 20        | 3        | 0       | 17       | 40    |
|  | Yes | 18        | 4        | 7       | 8        | 37    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

### D2c4 Marine Mammals: With Relative in Another Household Member \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2c4 Marine Mammals: With Relative in Another Household Member | No  | 19        | 2        | 0       | 20       | 41    |
|  | Yes | 19        | 5        | 7       | 5        | 36    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2c5 Marine Mammals: With Friend in Another Household Member \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2c5 Marine Mammals: With Friend in Another Household Member | No  | 34        | 5        | 3       | 22       | 64    |
|  | Yes | 4         | 2        | 4       | 3        | 13    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2c6 Marine Mammals: With Other \* Community Crosstabulation**

|                                 |     | Community |          |         |          | Total |
|---------------------------------|-----|-----------|----------|---------|----------|-------|
|                                 |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2c6 Marine Mammals: With Other | No  | 37        | 7        | 6       | 25       | 75    |
|                                 | Yes | 1         | 0        | 1       | 0        | 2     |
| Total                           |     | 38        | 7        | 7       | 25       | 77    |

**D2c6txt Marine Mammals: Name of Other \* Community Crosstabulation**

|                                       |                                       | Community |          |         |          | Total |
|---------------------------------------|---------------------------------------|-----------|----------|---------|----------|-------|
|                                       |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2c6txt Marine Mammals: Name of Other | <b>No additional comments offered</b> | 37        | 7        | 6       | 24       | 74    |
|                                       | anyone, alone                         | 0         | 0        | 0       | 1        | 1     |
|                                       | relatives of father-in-law            | 0         | 0        | 1       | 0        | 1     |
|                                       | son                                   | 1         | 0        | 0       | 0        | 1     |
| Total                                 |                                       | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Changes in Hunting Marine Mammals (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2cP Marine Mammals: Change in Participation compared to last 5 years? * Community | 59    | 75.6%   | 19      | 24.4%   | 78    | 100.0%  |

## Crosstabs: Why Changes in Participation in Hunting Marine Mammals (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D2cPtxt Marine Mammals: Why change in participation compared to last 5 years? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D2cPtxt Marine Mammals: Why change in participation compared to last 5 years? \* Community Crosstabulation

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2cPtxt Marine Mammals: Why change in participation compared to last 5 years?                                     | <b>No additional comments offered</b>  | 33        | 1        | 0       | 16       | 50    |
|   | Age  | 0         | 0        | 0       | 1        | 1     |
|   | Aging  | 1         | 0        | 0       | 0        | 1     |
|   | Anyone   | 0         | 0        | 0       | 2        | 2     |
|   | Depends on weather.  | 0         | 0        | 0       | 2        | 2     |
|   | Disability; Parkinson's disease.   | 0         | 0        | 0       | 1        | 1     |
|   | Don't need bearded seals. Walrus hunting takes longer because the animals stay at the edge of the ice pack and the ice is going out farther. The ice pack is different, it is so far away. Baleen and ivory are traded for fish and berries.   | 1         | 0        | 0       | 0        | 1     |
|   | For non-whale (seal mostly) he will go by himself or someone will "follow." This will usually be a whaling crew member or member(s). He can go by himself because he knows how to handle even a large oogruk by himself (although it is harder when it is in the water rather than on top of the ice). | 0         | 1        | 0       | 0        | 1     |
|   | Goes out whaling as often as before - - for seals and other resources trips have decreased. See land mammals answer. Whaling crew composed of relatives and good friends.  | 0         | 0        | 1       | 0        | 1     |
|   | Goes with family and the boys, maybe even spouse and young kids if the boat is big enough to hold them all. Do not go out that much -- only for 1 or 2 oogruk since there is not that much use for the skin now, but some times they can sell or trade the skin.                                       | 0         | 0        | 1       | 0        | 1     |
|   | Husband wasn't there to stop me.   | 0         | 0        | 0       | 1        | 1     |
|   | In-laws. People go out when they see them in the area, and not that many are seen. See "C" questions for whaling.  | 0         | 1        | 0       | 0        | 1     |
| Less often, even for whaling (has not been going in the boat). Goes for other species with brother and/or is son. | 0  | 1         | 0        | 0       | 1        |       |



|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | More boats, see less walrus, too far out now. Real thin ice that goes out fast.  | 0         | 0        | 0       | 1        | 1     |
|       | Mostly relatives, some friends. Whaling crew mostly relatives.   | 0         | 0        | 1       | 0        | 1     |
|       | Our main diet is whales, seals, and walrus.  | 0         | 0        | 0       | 1        | 1     |
|       | Reduced participation because of disability.   | 1         | 0        | 0       | 0        | 1     |
|       | Retired -- do not go out anymore. Will help make bombs for whaling and work on other equipment.  | 0         | 1        | 0       | 0        | 1     |
|       | Same for whaling, reduced for all others because motor for boat needs to be fixed. Hardly went boating this summer. Goes mostly with brothers and cousins, other family members.   | 0         | 1        | 0       | 0        | 1     |
|       | See above  | 1         | 0        | 0       | 0        | 1     |
|       | See caribou answer for non-whale species. Whaling activity had not been reduced (since it occurs in a concentrated period once a year) until last year, due to health reasons. Whaling crew composed of relatives and friends.                           | 0         | 0        | 1       | 0        | 1     |
|       | See land mammal answer. Whale participation has declined since his motor broke. He has been out to Cross Island as a crew member recently.   | 0         | 0        | 1       | 0        | 1     |
|       | See whaling crew answer. For non-whales he will go with sons, and wife will sometimes go as well.  | 0         | 1        | 0       | 0        | 1     |
|       | Son is becoming more experienced in hunting and providing more of the subsistence food.  | 1         | 0        | 0       | 0        | 1     |
|       | Will go with family members -- composition of hunting party can vary widely. Whaling crew is generally from more immediate family and in-laws. These people are either potential members of his whaling crew or his mother's whaling crew.               | 0         | 0        | 1       | 0        | 1     |
|       | With sons. Sons will also go with their uncles (respondents brothers and in-laws). Spouse and/or mother will sometimes go in the boat for seal. He goes less often than in past due to health. Whaling crew composed mostly (maybe solely) of relatives. | 0         | 0        | 1       | 0        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Coded Explanations for Changes in Participation in Hunting Marine Mammals**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| Why Changes in Participation in Hunting Marine Mammals * Community | 27    | 34.6%   | 51      | 65.4%   | 78    | 100.0%  |

**D4 Why Changes in Participation in Hunting Marine Mammals \* Community Crosstabulation**

|   |                             | Community |          |         |          | Total |
|---|-----------------------------|-----------|----------|---------|----------|-------|
|   |                             | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D4 Why Changes in Participation in Hunting Marine Mammals | Individual Explanations     | 4         | 4        | 7       | 5        | 20    |
|   | Environmental Influences    | 1         | 0        | 0       | 2        | 3     |
|   | Observation without comment | 0         | 2        | 0       | 2        | 4     |
| Total   |                             | 5         | 6        | 7       | 9        | 27    |

## Crosstabs: Whaling Captains Participation in Fishing - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2d1 Fish: With Whaling Crew Member * Community                  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2d2 Fish: With More than One Whaling Crew Member * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2d3 Fish: With Other Household Member * Community               | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2d4 Fish: With Relative in Another Household Member * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2d5 Fish: With Friend in Another Household Member * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2d6 Fish: With Other * Community                                | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2d6txt Fish: Name of Other * Community                          | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D2d1 Fish: With Whaling Crew Member \* Community Crosstabulation

|                                     |     | Community |          |         |          | Total |
|-------------------------------------|-----|-----------|----------|---------|----------|-------|
|                                     |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2d1 Fish: With Whaling Crew Member | No  | 32        | 7        | 7       | 25       | 71    |
|                                     | Yes | 6         | 0        | 0       | 0        | 6     |
| Total                               |     | 38        | 7        | 7       | 25       | 77    |

### D2d2 Fish: With More than One Whaling Crew Member \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2d2 Fish: With More than One Whaling Crew Member | No  | 23        | 7        | 7       | 21       | 58    |
|   | Yes | 15        | 0        | 0       | 4        | 19    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

### D2d3 Fish: With Other Household Member \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2d3 Fish: With Other Household Member | No  | 14        | 1        | 0       | 15       | 30    |
|  | Yes | 24        | 6        | 7       | 10       | 47    |
| Total                                  |     | 38        | 7        | 7       | 25       | 77    |

### D2d4 Fish: With Relative in Another Household Member \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2d4 Fish: With Relative in Another Household Member | No  | 18        | 5        | 2       | 18       | 43    |
|  | Yes | 20        | 2        | 5       | 7        | 34    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2d5 Fish: With Friend in Another Household Member \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2d5 Fish: With Friend in Another Household Member | No  | 33        | 7        | 4       | 21       | 65    |
|  | Yes | 5         | 0        | 3       | 4        | 12    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2d6 Fish: With Other \* Community Crosstabulation**

|                       |     | Community |          |         |          | Total |
|-----------------------|-----|-----------|----------|---------|----------|-------|
|                       |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2d6 Fish: With Other | No  | 38        | 7        | 7       | 23       | 75    |
|                       | Yes | 0         | 0        | 0       | 2        | 2     |
| Total                 |     | 38        | 7        | 7       | 25       | 77    |

**D2d6txt Fish: Name of Other \* Community Crosstabulation**

|                             |                | Community |          |         |          | Total |
|-----------------------------|----------------|-----------|----------|---------|----------|-------|
|                             |                | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2d6txt Fish: Name of Other |                | 37        | 7        | 7       | 24       | 75    |
|                             | anyone         | 0         | 0        | 0       | 1        | 1     |
|                             | wife, children | 1         | 0        | 0       | 0        | 1     |
| Total                       |                | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Changes in Participation in Hunting Marine Mammals (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2dP Fish: Change in Participation compared to last 5 years? * Community | 59    | 75.6%   | 19      | 24.4%   | 78    | 100.0%  |

### Crosstabs: Explanations for Changes in Participation in Fishing (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D2dPtxt Fish: Why change in participation compared to last 5 years? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### D2dPtxt Fish: Why change in participation compared to last 5 years? \* Community Crosstabulation

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2dPtxt Fish: Why change in participation compared to last 5 years? | <b>No additional comments offered</b>  | 32        | 1        | 0       | 18       | 51    |
|   | Two nephews.   | 0         | 0        | 0       | 2        | 2     |
|   | As a result of the later freeze up the fish have already passed by. Will have to go to fish camp earlier.  | 1         | 0        | 0       | 0        | 1     |
|   | By himself or camping with the family.   | 0         | 1        | 0       | 0        | 1     |
|   | Family, not whaling crew.  | 0         | 0        | 0       | 1        | 1     |
|   | Fishes with relatives and friends.   | 0         | 0        | 1       | 0        | 1     |
|   | Fishing used to be a family thing. I don't need that much for myself.  | 0         | 0        | 0       | 1        | 1     |
|   | Goes fishing with the family (own HH). Will camp or on day trips too.  | 0         | 1        | 0       | 0        | 1     |
|   | Goes with wife or some other relative to end net.  | 0         | 1        | 0       | 0        | 1     |
|   | He does not go as much, mainly in the summer to fish camp with the family where they use nets. Sons will go in winter to the fish holes on the river near the mountains. | 0         | 1        | 0       | 0        | 1     |
|   | Herring have not hit the beach in a long time.   | 1         | 0        | 0       | 0        | 1     |
|   | Less time to go out due to work. Goes out with his immediate family only (oldest son has own HH).  | 0         | 0        | 1       | 0        | 1     |
|   | Need a crew to get Dolly Varden  | 0         | 0        | 0       | 1        | 1     |
|   | No fish in the lake.   | 1         | 0        | 0       | 0        | 1     |
|   | On camping trips with family.  | 0         | 1        | 0       | 0        | 1     |

|              |  | Community |          |          |           | Total     |
|--------------|--|-----------|----------|----------|-----------|-----------|
|              |  | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | Relatives also rely on him and his HH for more fish than before, for same reasons. They can also sell fish for food. They caught 20 sacks this year, plus bartered a sack in exchange for a whaling lance. He goes fishing with a wide range of flexible partners. | 0         | 0        | 1        | 0         | 1         |
|              | See above  | 1         | 0        | 0        | 0         | 1         |
|              | See caribou answer. Wife only goes with him when they are harvesting turbot.   | 0         | 0        | 1        | 0         | 1         |
|              | See land mammal answer.  | 0         | 0        | 1        | 0         | 1         |
|              | See marine mammals.  | 0         | 0        | 1        | 0         | 1         |
|              | Son is becoming more experienced in hunting and providing more of the subsistence food.  | 1         | 0        | 0        | 0         | 1         |
|              | There is more fish in the river. Limits on fish are 40-50 per species.   | 0         | 0        | 0        | 1         | 1         |
|              | We used to catch fish and sell them to the stores. Now we can't do that.   | 1         | 0        | 0        | 0         | 1         |
|              | Whole family will go -- can be multi-HH.   | 0         | 1        | 0        | 0         | 1         |
|              | With spouse or sons or alone -- but less than before (health). They will check nets for their cousins as well.   | 0         | 0        | 1        | 0         | 1         |
|              | Working more now in the summer.  | 0         | 0        | 0        | 1         | 1         |
| <b>Total</b> |  | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

### Crosstabs: Coded Explanations for Changes in Participation in Fishing (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Why Changes in Participation in Fishing (Coded) * Community | 27    | 34.6%   | 51      | 65.4%   | 78    | 100.0%  |

#### D.4 Why Changes in Participation in Fishing (Coded) \* Community Crosstabulation

|   |                              | Community |          |          |          | Total     |
|---|------------------------------|-----------|----------|----------|----------|-----------|
|   |                              | Barrow    | Kaktovik | Nuiqsut  | Savoonga |           |
| D.4 Why Changes in Participation in Fishing (Coded) | Individual Explanations      | 1         | 6        | 7        | 5        | 19        |
|   | Animal Behavior              | 2         | 0        | 0        | 0        | 2         |
|   | Human Influences             | 3         | 0        | 0        | 1        | 4         |
|   | Environmental Explanations   | 1         | 0        | 0        | 0        | 1         |
|   | Observations without Comment | 0         | 0        | 0        | 1        | 1         |
| <b>Total</b>  |                              | <b>7</b>  | <b>6</b> | <b>7</b> | <b>7</b> | <b>27</b> |

**Crosstabs: Whaling Captain Participation in Bird Hunting - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D2e1 Birds: With Whaling Crew Member * Community                  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2e2 Birds: With More than One Whaling Crew Member * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2e3 Birds: With Other Household Member * Community               | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2e4 Birds: With Relative in Another Household Member * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2e5 Birds: With Friend in Another Household Member * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2e6 Birds: With Other * Community                                | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**D2e1 Birds: With Whaling Crew Member \* Community Crosstabulation**

|                                      |     | Community |          |         |          | Total |
|--------------------------------------|-----|-----------|----------|---------|----------|-------|
|                                      |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2e1 Birds: With Whaling Crew Member | No  | 32        | 7        | 7       | 24       | 70    |
|                                      | Yes | 6         | 0        | 0       | 1        | 7     |
| Total                                |     | 38        | 7        | 7       | 25       | 77    |

**D2e2 Birds: With More than One Whaling Crew Member \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2e2 Birds: With More than One Whaling Crew Member | No  | 27        | 7        | 7       | 19       | 60    |
|  | Yes | 11        | 0        | 0       | 6        | 17    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2e3 Birds: With Other Household Member \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2e3 Birds: With Other Household Member | No  | 16        | 1        | 0       | 17       | 34    |
|   | Yes | 22        | 6        | 7       | 8        | 43    |
| Total                                   |     | 38        | 7        | 7       | 25       | 77    |

**D2e4 Birds: With Relative in Another Household Member \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2e4 Birds: With Relative in Another Household Member | No  | 22        | 5        | 2       | 22       | 51    |
|   | Yes | 16        | 2        | 5       | 3        | 26    |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D2e5 Birds: With Friend in Another Household Member \* Community Crosstabulation**

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2e5 Birds: With Friend in Another Household Member | No  | 34        | 7        | 5       | 23       | 69    |
|   | Yes | 4         | 0        | 2       | 2        | 8     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

**D2e6 Birds: With Other \* Community Crosstabulation**

|                        |    | Community |          |         |          | Total |
|------------------------|----|-----------|----------|---------|----------|-------|
|                        |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2e6 Birds: With Other | No | 38        | 7        | 7       | 25       | 77    |
| Total                  |    | 38        | 7        | 7       | 25       | 77    |

**D2e6txt Birds: Name of Other \* Community Crosstabulation**

|                              |                                       | Community |          |         |          | Total |
|------------------------------|---------------------------------------|-----------|----------|---------|----------|-------|
|                              |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2e6txt Birds: Name of Other | <b>No additional comments offered</b> | 38        | 7        | 7       | 23       | 75    |
|                              | Alone                                 | 0         | 0        | 0       | 1        | 1     |
|                              | Anyone                                | 0         | 0        | 0       | 1        | 1     |
| Total                        |                                       | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Change in WC Bird Hunting last 5 Years - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D2eP Birds: Change in Participation compared to last 5 years? * Community | 57    | 73.1%   | 21      | 26.9%   | 78    | 100.0%  |



## Crosstabs: Explanations for Changes in Bird Hunting (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2ePtxt Birds: Why change in participation compared to last 5 years? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D2ePtxt Birds: Why change in participation compared to last 5 years? \* Community Crosstabulation

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2ePtxt Birds: Why change in participation compared to last 5 years?   | <b>No additional comments offered</b>  | 31        | 1        | 0       | 16       | 48    |
|  | A lot of kids want to go bird hunting.   | 0         | 0        | 0       | 1        | 1     |
|  | Aging  | 1         | 0        | 0       | 0        | 1     |
|  | Alone  | 0         | 0        | 0       | 2        | 2     |
|  | Early - once in a season.  | 0         | 0        | 0       | 1        | 1     |
|  | Family, not whaling crew.  | 0         | 0        | 0       | 1        | 1     |
|  | Generally go by snow machine, is a limited season (birds migrate).   | 0         | 0        | 1       | 0        | 1     |
|  | Goes alone. Busy hunting whales, so did not have enough 'leave-time' from job to go birding, 2-3 weeks is normal.  | 1         | 0        | 0       | 0        | 1     |
|  | Hunts only in the fall.  | 0         | 0        | 0       | 1        | 1     |
|  | In spring and fall (during bird migration) on camping trip with family (own HH). Other HHs will be camped in the same locations and will often be relatives and friends. | 0         | 1        | 0       | 0        | 1     |
|  | Mostly with his stepsons and cousins.  | 0         | 0        | 1       | 0        | 1     |
|  | No transportation in the fall - airlines don't go to the Chip River. No bush pilots.   | 1         | 0        | 0       | 0        | 1     |
|  | Not as many spectacle eiders (duck species) as before.   | 0         | 0        | 0       | 1        | 1     |
|  | On the weekends by himself or camping with the family (own HH) -- but often in the company of other HHs camping at same site.  | 0         | 1        | 0       | 0        | 1     |
|  | Reduced participation because of disability.   | 1         | 0        | 0       | 0        | 1     |
|  | Regulations.   | 0         | 0        | 0       | 1        | 1     |
|  | Same reason as above.  | 0         | 0        | 0       | 1        | 1     |
|  | See above  | 1         | 0        | 0       | 0        | 1     |
|  | See caribou answer.  | 0         | 0        | 1       | 0        | 1     |
|  | See marine mammals.  | 0         | 0        | 1       | 0        | 1     |
| Son is becoming more experienced in hunting and providing more of the subsistence food.  | 1  | 0         | 0        | 0       | 1        |       |
| Spring trip (early during the migration) with the whole family. They do not go in the fall. It is common for other family units to be in the same area so that "relatives in other HH" and "friends in other HH" will also likely be close by. | 0  | 1         | 0        | 0       | 1        |       |

|              |  | Community |          |          |           | Total     |
|--------------|--|-----------|----------|----------|-----------|-----------|
|              |  | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | Still cold when duck hunting so he goes mostly with the boys, sometimes with friends, and boys go by themselves and with their friends. 100 geese/year is normal for them (200 would be a lot) -- they use 70 for Nulukatuq, along with 50 ducks.  | 0         | 0        | 1        | 0         | 1         |
|              | The migration of some bird species has decreased.  | 1         | 0        | 0        | 0         | 1         |
|              | Varies from year-to-year depending on the weather. Last year he hardly went because the weather was bad. Will go with family and in-laws, by boat or snow machine. Other HHs will be hunting in the same area. Set up camp for a week or two.  | 0         | 1        | 0        | 0         | 1         |
|              | Will go with wife and nephews.   | 0         | 1        | 0        | 0         | 1         |
|              | With his son or the entire family (open HH). Will go spring and fall both.   | 0         | 1        | 0        | 0         | 1         |
|              | With sons, in-laws, spouse, mother (or combinations). Less often than in past due to health.   | 0         | 0        | 1        | 0         | 1         |
|              | Work has reduced trips. He goes out with his youngest kids. When they are older they can go out on their own. When all his kids were young the family went out as a group [but he implied that they no longer did so since some of his kids are now older and on their own]. This is a household activity. | 0         | 0        | 1        | 0         | 1         |
| <b>Total</b> |  | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

### Crosstabs: Coded Explanations for Changes in Participation of Bird Hunting (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| Coded Why Changes in Bird Hunting last 5 years * Community | 28    | 35.9%   | 50      | 64.1%   | 78    | 100.0%  |

#### D.4 Coded Why Changes in Bird Hunting last 5 years \* Community Crosstabulation

|  |                              | Community |          |          |          | Total     |
|--|------------------------------|-----------|----------|----------|----------|-----------|
|  |                              | Barrow    | Kaktovik | Nuiqsut  | Savoonga |           |
| D.4 Coded Why Changes in Bird Hunting last 5 years | Individual Explanations      | 3         | 0        | 2        | 0        | 5         |
|  | Animal Behavior              | 0         | 0        | 1        | 1        | 2         |
|  | Human Influences             | 1         | 0        | 2        | 1        | 4         |
|  | Environmental Explanations   | 0         | 1        | 0        | 0        | 1         |
|  | Observations without comment | 2         | 5        | 2        | 7        | 16        |
| <b>Total</b>                                       |                              | <b>6</b>  | <b>6</b> | <b>7</b> | <b>9</b> | <b>28</b> |

## Crosstabs: Whaling Captain Participation in Gathering - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2g1 Plants: With Whaling Crew Member * Community                  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2g2 Plants: With More than One Whaling Crew Member * Community    | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2g3 Plants: With Other Household Member * Community               | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2g4 Plants: With Relative in Another Household Member * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2g5 Plants: With Friend in Another Household Member * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2g6 Plants: With Other * Community                                | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |
| D2g6txt Plants: Name of Other * Community                          | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D2g1 Plants: With Whaling Crew Member \* Community Crosstabulation

|                                       |    | Community |          |         |          | Total |
|---------------------------------------|----|-----------|----------|---------|----------|-------|
|                                       |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2g1 Plants: With Whaling Crew Member | No | 38        | 7        | 7       | 25       | 77    |
| Total                                 |    | 38        | 7        | 7       | 25       | 77    |

### D2g2 Plants: With More than One Whaling Crew Member \* Community Crosstabulation

|   |     | Community |          |         |          | Total |
|---|-----|-----------|----------|---------|----------|-------|
|   |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2g2 Plants: With More than One Whaling Crew Member | No  | 30        | 7        | 7       | 25       | 69    |
|   | Yes | 8         | 0        | 0       | 0        | 8     |
| Total   |     | 38        | 7        | 7       | 25       | 77    |

### D2g3 Plants: With Other Household Member \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2g3 Plants: With Other Household Member | No  | 24        | 3        | 3       | 13       | 43    |
|  | Yes | 14        | 4        | 4       | 12       | 34    |
| Total                                    |     | 38        | 7        | 7       | 25       | 77    |

### D2g4 Plants: With Relative in Another Household Member \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2g4 Plants: With Relative in Another Household Member | No  | 30        | 7        | 5       | 24       | 66    |
|  | Yes | 8         | 0        | 2       | 1        | 11    |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2g5 Plants: With Friend in Another Household Member \* Community Crosstabulation**

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2g5 Plants: With Friend in Another Household Member | No  | 36        | 7        | 7       | 25       | 75    |
|  | Yes | 2         | 0        | 0       | 0        | 2     |
| Total  |     | 38        | 7        | 7       | 25       | 77    |

**D2g6 Plants: With Other \* Community Crosstabulation**

|                         |    | Community |          |         |          | Total |
|-------------------------|----|-----------|----------|---------|----------|-------|
|                         |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2g6 Plants: With Other | No | 38        | 7        | 7       | 25       | 77    |
| Total                   |    | 38        | 7        | 7       | 25       | 77    |

**D2g6txt Plants: Name of Other \* Community Crosstabulation**

|                               |                                       | Community |          |         |          | Total |
|-------------------------------|---------------------------------------|-----------|----------|---------|----------|-------|
|                               |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D2g6txt Plants: Name of Other | <b>No additional comments offered</b> | 36        | 7        | 7       | 20       | 70    |
|                               | go alone                              | 1         | 0        | 0       | 0        | 1     |
|                               | self                                  | 0         | 0        | 0       | 1        | 1     |
|                               | wife                                  | 1         | 0        | 0       | 4        | 5     |
| Total                         |                                       | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Changes in Participation in Gathering Last 5 Years (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D2gP Plants: Change in Participation compared to last 5 years? * Community | 38    | 48.7%   | 40      | 51.3%   | 78    | 100.0%  |

## Crosstabs: Explanations for Changes in Participation in Gathering Activities (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D2gPtxt Plants: Why change in participation compared to last 5 years? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D2gPtxt Plants: Why change in participation compared to last 5 years? \* Community Crosstabulation

|   |  | Community |          |           |           | Total |
|---|--|-----------|----------|-----------|-----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut   | Savoonga  |       |
| D2gPtxt Plants: Why change in participation compared to last 5 years? | <b>No additional comments offered</b>  | 35        | 3        | 3         | 22        | 63    |
|   | Goes with family (own HH) on a summer trip usually, but did not last summer.   | 0         | 1        | 0         | 0         | 1     |
|   | Mainly on family outings -- but can include related HHs. Sometimes only his HH.  | 0         | 0        | 1         | 0         | 1     |
|   | Only pick for one meal at a time.  | 0         | 0        | 0         | 1         | 1     |
|   | Same number of family trips.   | 0         | 0        | 1         | 0         | 1     |
|   | See above  | 1         | 0        | 0         | 0         | 1     |
|   | See marine mammals.  | 0         | 0        | 1         | 0         | 1     |
|   | Seldom or never goes anymore.  | 0         | 1        | 0         | 0         | 1     |
|   | This is mainly a family activity. He will go "weather permitting." Last year they did not go as there was bad weather and the berries never matured. | 0         | 1        | 0         | 0         | 1     |
|   | Too busy.  | 0         | 0        | 0         | 1         | 1     |
|   | Trade baleen and ivory for fish and berries in Kotzebue - he makes crafts.   | 1         | 0        | 0         | 0         | 1     |
|   | We pick for eating - the greens come out earlier than before.  | 0         | 0        | 0         | 1         | 1     |
|   | Weather - plants don't thrive in cold weather in Pt. Lay.  | 1         | 0        | 0         | 0         | 1     |
|   | When he is upriver he may also look for berries, especially if he is with family members.  | 0         | 0        | 1         | 0         | 1     |
| With wife and granddaughter -- do not do it much.                     | 0  | 1         | 0        | 0         | 1         |       |
| <b>Total</b>  | <b>38</b>  | <b>7</b>  | <b>7</b> | <b>25</b> | <b>77</b> |       |

**Crosstabs: Coded Explanations for Changes in Participation in Gathering (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Coded Explanations for Changes Participation in Gathering * Community | 13    | 16.7%   | 65      | 83.3%   | 78    | 100.0%  |

**D4 Coded Explanations for Changes Participation in Gathering \* Community Crosstabulation**

|  |                              | Community |          |         |          | Total |
|--|------------------------------|-----------|----------|---------|----------|-------|
|  |                              | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D4 Coded Explanations for Changes Participation in Gathering | Human Influences             | 0         | 0        | 0       | 1        | 1     |
|  | Environmental Explanations   | 1         | 1        | 0       | 0        | 2     |
|  | Observations without Comment | 1         | 3        | 4       | 2        | 10    |
| Total  |                              | 2         | 4        | 4       | 3        | 13    |

**Crosstabs: Changes in the amount of subsistence fish & wildlife resources in the last 5 years - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D5 During the last 5 years, would you say that the amount of fish and wildlife around (community) that can be harvested has increased, stayed the same, or decreased? * Community | 63    | 80.8%   | 15      | 19.2%   | 78    | 100.0%  |

**D5 During the last 5 years, how has the amount of fish and wildlife available for harvest changed? \* Community Crosstabulation**

|   |                 | Community |          |         |          | Total |
|---|-----------------|-----------|----------|---------|----------|-------|
|   |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D5 During the last 5 years, would you say that the amount of fish and wildlife around (community) that can be harvested has increased, stayed the same, or decreased? * Community | Increased       | 11        | 0        | 0       | 7        | 18    |
|   | Stayed the same | 18        | 4        | 1       | 10       | 33    |
|   | Decreased       | 4         | 2        | 4       | 2        | 12    |
| Total   |                 | 33        | 6        | 5       | 19       | 63    |

## Crosstabs: Explanations for Changes in Subsistence Resources (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D5a Can you tell me why (subsistence resources have changed)? *Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D5a Why the amount of fish and wildlife available for harvest has changed? \* Community Crosstabulation

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D5a Can you tell me why?   | <b>No additional comments offered</b>  | 21        | 0        | 1       | 14       | 36    |
|  | Abundance of food.   | 0         | 0        | 0       | 1        | 1     |
|  | Averages are the same, but this spring was harder than usual. Overall, things are OK.  | 1         | 0        | 0       | 0        | 1     |
|  | There was a lot of caribou last winter.  | 0         | 1        | 0       | 0        | 1     |
|  | Caribou follow a different route each year. Now they are coming close to Barrow. Hunters are chasing them with 4-wheelers, stressing and spooking them.  | 1         | 0        | 0       | 0        | 1     |
|  | Caribou herd has increased, the rest is the same.  | 1         | 0        | 0       | 0        | 1     |
|  | Decreased somewhat because of cumulative effects of more obstacles composed of the infrastructure of oil and gas facilities. NQT hunters have to go further out from the village to find animals and it takes more time.                                       | 0         | 0        | 1       | 0        | 1     |
|  | Depends where.   | 1         | 0        | 0       | 0        | 1     |
|  | Did not want to make a general judgment or identify a trend for the last 5 years. Respondent said that this year (2004) there were plenty of caribou but noticeably fewer arctic Cisco, while the number of whitefish was about the same as in previous years. | 0         | 0        | 1       | 0        | 1     |
|  | Did not want to make judgment. He says that some years there are hardly any fish, but there were lots this year. Two years ago there were hardly any. He says there is no trend that he can see – it just depends on the year.                                 | 0         | 0        | 1       | 0        | 1     |
|  | Fish and Wildlife (Service) is giving a limit, some are dying by themselves; used to go hunting in Nome; for 20 years. I would get moose.  | 0         | 0        | 0       | 1        | 1     |
|  | Fish and Wildlife game wardens.  | 0         | 0        | 0       | 1        | 1     |
|  | Fish and Wildlife is trying to limit us, but we succeed. We don't take any more than we need.  | 0         | 0        | 0       | 1        | 1     |
|  | Fish have decreased, don't know why. Haven't caught (same) quantity of catch.  | 1         | 0        | 0       | 0        | 1     |
| Global warming has led to an increase of fish and other species. | 1  | 0         | 0        | 0       | 1        |       |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Has seen hardly any change.  | 0         | 1        | 0       | 0        | 1     |
| He did not want to go with one global judgment as it depends on the resource. Caribou seem to have increased while muskox have disappeared. There have been lots of caribou all winter long on the island and they are freezing to death. He does not know why the caribou did not go to the mainland, where they could probably find food. He thinks maybe they think they are on an island with no connection to the mainland. Bears eat the blubber and fat and foxes eat the meat (of the caribou and the whale in the boneyard). Respondent does not think that FWS worries too much about fishing resources, while ADF&G is better. The state people do not bother Iñupiat hunters and fishers but the Feds talk to the hunters they see too much.   | 0         | 1        | 0       | 0        | 1     |
| He states that what ADF&G writes contradicts what the locals have observed -- ADF&G claims local resource populations are healthy while locals report seeing fewer animals. Locals do not want "game wardens" [a common local perception/label for ADF&G] around when they are looking for game. He cites examples of planes and helicopters flying around when and where people are hunting, causing game to move away or be spooked (ADF&G, military, industry examples). One story involved caribou starting to cross the river 30 miles upriver from the village, but spooked from doing so (and diverted further from the village and thus less accessible to local hunters) by aircraft. He also separates caribou from other resources, saying that there are still lots of caribou around and that they are increasing each year. It is the migration routes that are pushed out further from the village each year, making caribou less accessible to local hunters. The caribou are further south of the community (NQT) each year. Before the Alpine development, the herd used to pass real close to NQT, but now is further away. | 0         | 0        | 1       | 0        | 1     |
| Access to the resources is more difficult due to climate change.   | 1         | 0        | 0       | 0        | 1     |
| In the spring, the ice was thick, now there is more open water, so they have to go out too far.  | 0         | 0        | 0       | 1        | 1     |
| Increased population.  | 1         | 0        | 0       | 0        | 1     |
| Lack of ice – walrus.  | 0         | 0        | 0       | 1        | 1     |



|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | More Fish and Wildlife people; walrus monitors, law enforcement  | 0         | 0        | 0       | 1        | 1     |
|  | More snow geese, swans...  | 0         | 0        | 0       | 1        | 1     |
|  | No caribou, maybe because of the oil drilling near fish camp. As a result of the later freeze up the fish are gone by the time we arrive in fish camp.   | 1         | 0        | 0       | 0        | 1     |
|  | No elaboration.  | 0         | 1        | 0       | 0        | 1     |
|  | Overall it increased but the weather has reduced our success - same number of trips but less successful due to wave action.  | 0         | 0        | 0       | 1        | 1     |
|  | People don't hunt as much as they used to.   | 1         | 0        | 0       | 0        | 1     |
|  | Population growth, younger kids go off hunting on their own.   | 1         | 0        | 0       | 0        | 1     |
|  | Population increase.   | 1         | 0        | 0       | 0        | 1     |
|  | Populations are increasing. For example, more fish are up the rivers and lagoon.   | 1         | 0        | 0       | 0        | 1     |
|  | Respondent says that NQT people do not see as many whitefish as in the past, although he says that may just be part of nature's cycles. Sometimes the mouth of the river can get iced up so that the fish can not come in. His HH used to average 20 or 25 sacks of fish a year, and recently have just been harvesting 2 per year.  | 0         | 0        | 1       | 0        | 1     |
|  | Said that he did not know -- but this was his observation.   | 0         | 1        | 0       | 0        | 1     |
|  | Seismic activity had a very negative effect but after that stopped the amount increased until it was back to normal.   | 1         | 0        | 0       | 0        | 1     |
|  | The amount of birds has decreased since the Exxon Valdez oil spill. Also caribou are hardly seen due to drilling.  | 1         | 0        | 0       | 0        | 1     |
|  | The amount of some species such as salmon are increasing.  | 1         | 0        | 0       | 0        | 1     |
|  | The number of animals never really changes. They take care of it [only harvest what they need so that there are always enough animals] and the FWS will look at the animal populations and so far have indicated that they are okay. He said that this year had been different in terms of caribou in that there were lots of caribou on Barter Island and people could not remember caribou on the island before, and certainly not in the large numbers there were this year. There were so many that they were starving and dying all over the island. People could walk out from the village (and just on the margins of the village) to shoot them. | 0         | 1        | 0       | 0        | 1     |

|              |  | Community |          |          |           | Total     |
|--------------|--|-----------|----------|----------|-----------|-----------|
|              |  | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | Traditional law is you take (only) what you need to survive; so you can get it next year and the year after. (Referring to Fish and Wildlife service limits on walrus hunting).  | 0         | 0        | 0        | 1         | 1         |
|              | Varies - depends on animal. If there is an abundance of food for the young, they will reproduce more.  | 0         | 0        | 0        | 1         | 1         |
|              | Weather changes.   | 1         | 0        | 0        | 0         | 1         |
|              | When he and others used to go out in the spring after caribou the small planes and helicopters would chase the caribou away. This year was different because a lot of caribou came on to the island and many of them (he said maybe most of them) died -- but this was very unusual. They do not usually see caribou on Barter Island. | 0         | 1        | 0        | 0         | 1         |
|              | Whitefish are decreasing in numbers, caribou migration in the summer is deflected due to the pipeline acting as an "iron curtain" -- ever since oil development came here [near NQT] everything [all subsistence resources] is going down in terms of hunting.   | 0         | 0        | 1        | 0         | 1         |
| <b>Total</b> |  | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

### Crosstabs: Coded Explanations for Changes in Subsistence Resources (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Coded explanations of why amount of subsistence resources changed * Community | 39    | 50.0%   | 39      | 50.0%   | 78    | 100.0%  |

#### C.5a Coded explanations of why amount of subsistence resources changed \* Community Crosstabulation

|  |                             | Community |          |          |           | Total     |
|--|-----------------------------|-----------|----------|----------|-----------|-----------|
|  |                             | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
| C.5a Coded explanations of why amount of subsistence resources changed | Human Influences            | 3         | 1        | 1        | 4         | 9         |
|  | Environmental Explanations  | 3         | 0        | 0        | 2         | 5         |
|  | Effects of Oil Development  | 4         | 0        | 2        | 1         | 7         |
|  | Observation without Comment | 6         | 5        | 3        | 4         | 18        |
| <b>Total</b>   |                             | <b>16</b> | <b>6</b> | <b>6</b> | <b>11</b> | <b>39</b> |

**Crosstabs: Changes in Personal Harvest of Subsistence Resources (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D5b Has your personal harvest of fish and wildlife around (community) increased, stayed the same, or decreased over the past 5 years? * Community | 70    | 89.7%   | 8       | 10.3%   | 78    | 100.0%  |

**D5b Has your personal harvest of fish and wildlife increased, stayed the same, or decreased over the past 5 years? \* Community Crosstabulation**

|   |                 | Community |          |         |          | Total |
|---|-----------------|-----------|----------|---------|----------|-------|
|   |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D5b Has your personal harvest of fish and wildlife around (community) increased, stayed the same, or decreased over the past 5 years? * | Increased       | 3         | 0        | 0       | 3        | 6     |
|   | Stayed the same | 23        | 3        | 1       | 14       | 41    |
|   | Decreased       | 10        | 2        | 5       | 6        | 23    |
| Total   |                 | 36        | 5        | 6       | 23       | 70    |

**Crosstabs: Anticipated Changes in Subsistence Harvests? (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D6 Do you think that 5 years from now the amount of fish and wildlife to harvest will increase, stay the same, or decrease? | 42    | 53.8%   | 36      | 46.2%   | 78    | 100.0%  |

**D6 Five years from now, how will the amount of fish and wildlife to harvest change? \* Community Crosstabulation**

|   |               | Community |          |         |          | Total |
|---|---------------|-----------|----------|---------|----------|-------|
|   |               | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D6 Do you think that 5 years from now the amount of fish and wildlife to harvest will increase, stay the same, or decrease? | Increase      | 3         | 0        | 0       | 5        | 8     |
|   | Stay the same | 12        | 2        | 1       | 8        | 23    |
|   | Decrease      | 6         | 0        | 4       | 1        | 11    |
| Total   |               | 21        | 2        | 5       | 14       | 42    |

**Crosstabs: Why are future subsistence harvests likely (or unlikely) to change? (WC) - All Communities**

|                                     | Cases |         |         |         |       |         |
|-------------------------------------|-------|---------|---------|---------|-------|---------|
|                                     | Valid |         | Missing |         | Total |         |
|                                     | N     | Percent | N       | Percent | N     | Percent |
| D6a Can you tell me why?* Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**D6a Why the change in fish and wildlife to harvest in 5 years? \* Community Crosstabulation**

|                          |   | Community |          |         |          | Total |
|--------------------------|---|-----------|----------|---------|----------|-------|
|                          |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D6a Can you tell me why? | <b>No additional comments offered</b>   | 25        | 0        | 1       | 17       | 43    |
|                          | All the oil company activity has had a negative effect. When they make ice rods they pump water from lakes. This may have a negative effect on fish.  | 1         | 0        | 0       | 0        | 1     |
|                          | Animal populations follow cycles.   | 1         | 0        | 0       | 0        | 1     |
|                          | As prices go higher, more people will hunt (respondent addresses question based on the idea that hunting will increase, rather than the wildlife population will increase).   | 0         | 0        | 0       | 1        | 1     |
|                          | Caribou population has grown.   | 1         | 0        | 0       | 0        | 1     |
|                          | Climate change.   | 1         | 0        | 0       | 0        | 1     |
|                          | Depends on oil activities and road construction.  | 1         | 0        | 0       | 0        | 1     |
|                          | Good healthy population.  | 1         | 0        | 0       | 0        | 1     |
|                          | Hard to say about the future. His HH does need to live off the land as it is too expensive to buy meat from the store.  | 0         | 1        | 0       | 0        | 1     |
|                          | He did not want to answer D5b and referred D6 to his discussion of D5b. Basically he said that his harvest [and his HH harvest] depends on how much they think they need to put away for winter, and need to eat in the summer. That is, they harvest what they need [and are not really interested too much in counting or weighing it]. He said that they need caribou now (late May) and that they try not to harvest caribou in the winter, because they are skinny then. August is the best time for caribou as that is when they are fattest. He also discussed how fishing can be variable. When the water is high (with a west wind) there are hardly any fish -- so they are catching fewer fish in the winter since the winds were mainly west winds last winter. This was true even at Griffin Point [where many Kaktovik families have fish camps and where they will go for other subsistence activities as well]. | 0         | 1        | 0       | 0        | 1     |
|                          | He does not really want to talk to this. He says that people don't hunt much here -- but he may have been joking. He did not seem to want to even address this question.  | 0         | 1        | 0       | 0        | 1     |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | He said that he has no idea, saying "I have no idea." To say, he says that you would have to be here those 5 years. You can't tell ahead of time. He does not know if he will be here in 5 years, or even in 5 weeks.   | 0         | 1        | 0       | 0        | 1     |
|  | He said this was a hard question to answer, with the ongoing oil development and all. With the pipeline going west subsistence harvest may well decrease (animals diverted away, harder to find and reach). Seismic activity also disturbs all animals, even the ground squirrels -- at least distribution, maybe abundance as well [my terms, not his -- but was the gist of his ideas]. | 0         | 0        | 1       | 0        | 1     |
|  | Hope  | 0         | 0        | 0       | 1        | 1     |
|  | If Federal or State fish and game regulations are imposed the amount could change.  | 1         | 0        | 0       | 0        | 1     |
|  | If there are monitors, don't see any reason to increase (refers to Fish & Wildlife Service monitoring).   | 0         | 0        | 0       | 1        | 1     |
|  | It is growing faster every year.  | 0         | 0        | 0       | 1        | 1     |
|  | More regulations coming in.   | 1         | 0        | 0       | 0        | 1     |
|  | Not a strong answer, but he said that maybe it would be less -- that maybe the oil field [Alpine] is interfering with the animals and hunting -- there is more oil equipment and more ice roads than ever before. There also seems to be a lot of other equipment rolling around, and continuing seismic activity.  | 0         | 0        | 1       | 0        | 1     |
|  | NPRA will change things.  | 1         | 0        | 0       | 0        | 1     |
|  | Oil activities such as drilling will have negative effect.  | 1         | 0        | 0       | 0        | 1     |
|  | Oil drilling leases will lead to a decrease.  | 1         | 0        | 0       | 0        | 1     |
|  | Oil exploration occurring inland may scare them (the whales) off.   | 1         | 0        | 0       | 0        | 1     |
|  | Opportunities for hunting will be less.   | 0         | 0        | 0       | 1        | 1     |
|  | Own effort has decreased but harvest about the same since there were more caribou much closer to town than usual last year. He took more caribou than usual last winter.  | 0         | 1        | 0       | 0        | 1     |
|  | Own harvest decreased because his HH has no snow machine (only an old one and all he knows about it is how to clean the spark plugs). As for the future, it is a big question and he cannot tell. You cannot predict the future.  | 0         | 1        | 0       | 0        | 1     |

|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Own harvest has decreased since he needs to go farther, and there is also the safety factor of not wanting to hunt around the pipeline. The more exploration and production there is in the area, the greater the cumulative impact will be. When oil and gas facilities are built in an area where Nuiqsut hunters hunt, they need to find new areas to hunt -- and these in turn are then the target for new oil and gas exploration and production.   | 0         | 0        | 1       | 0        | 1     |
|       | Refers to the Fish and Wildlife personnel: "Staff will increase. Fish and Wildlife have been taking local workers."  | 0         | 0        | 0       | 1        | 1     |
|       | Respondent says "I have no idea." It will probably just increase a little bit, but it is hard to say. A person cannot know the future.   | 0         | 0        | 1       | 0        | 1     |
|       | Respondent states that caribou will decline once they start building the pipeline [local internal field Alpine pipelines, Alpine-TAPS pipeline, and natural gas pipeline from Alpine to Nuiqsut]. Up to this time, the respondent says that there have been plenty of caribou since he moved to NQT. Caribou used to be available both east and west of NQT, but now there are hardly any caribou to the east due to the pipeline. NQT hunters get most of there caribou to the west of NQT. Those for the east used to be fatter than those from the west. Respondent says that his HH does not hunt caribou as much as they used to since the HH need is down, and his HH eats more "store" food than in the past. | 0         | 0        | 1       | 0        | 1     |
|       | This time he explicitly said that he did not know, as you cannot tell the future [clearly implying that this was adequately covered when he was asked about whales and the future]. He did suggest that due to the oil field [Alpine] and its associated infrastructure that caribou and other animals may go different routes and be harder to find. That is, he would not be surprised of oil development depressed subsistence harvests in the future. But even in the absence of oil development, the future would be uncertain.   | 0         | 0        | 1       | 0        | 1     |
|       | Weather is right there with us all the time. This is decreasing our harvest. The ice condition, there wasn't any ice.  | 0         | 0        | 0       | 2        | 2     |
|       | Who knows? Who can say? Cannot tell the future. He does say that it is warming up and there seems to be more salmon locally now than in the past.  | 0         | 1        | 0       | 0        | 1     |
|       | Wildlife populations fluctuate. Also, weather and ice conditions change.   | 1         | 0        | 0       | 0        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Coded Explanations for future changes in subsistence harvests (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| Coded explanations for future changes in subsistence harvests * Community | 33    | 42.3%   | 45      | 57.7%   | 78    | 100.0%  |

**D.6a Coded explanations for future changes in subsistence harvests \* Community Crosstabulation**

|  |                            | Community |          |         |          | Total |
|--|----------------------------|-----------|----------|---------|----------|-------|
|  |                            | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.6a Coded explanations for future changes in subsistence harvests | Subsistence & Tradition    | 0         | 1        | 0       | 0        | 1     |
|  | Government Policies        | 2         | 0        | 0       | 2        | 4     |
|  | Human Development          | 0         | 0        | 0       | 3        | 3     |
|  | Environmental Explanations | 1         | 0        | 0       | 2        | 3     |
|  | Effects of Oil Development | 6         | 0        | 4       | 0        | 10    |
|  | Cannot know the Future     | 0         | 4        | 2       | 1        | 7     |
|  | Animal Behavior            | 4         | 1        | 0       | 0        | 5     |
| Total  |                            | 13        | 6        | 6       | 8        | 33    |

## TRADITIONS: SHARING, ELDERS, AND LANGUAGE

### Crosstabs: How much household food came from hunting, fishing, gathering activities by yourself or members of your HH in last year? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.7 During the last 12 months, how much of your household's subsistence food came from hunting, fishing, and gathering activities by you or members of your household? * Community | 75    | 96.2%   | 3       | 3.8%    | 78    | 100.0%  |

### D.7 During last year how much of household food came from subsistence? \* Community Crosstabulation

|  |                      | Community |          |         |          | Total |
|--|----------------------|-----------|----------|---------|----------|-------|
|  |                      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.7 During the last 12 months, how much of your household's subsistence food came from hunting, fishing, and gathering activities by you or members of your household? | None                 | 1         | 1        | 0       | 0        | 2     |
|  | About a quarter      | 0         | 2        | 2       | 0        | 4     |
|  | About half           | 13        | 1        | 3       | 5        | 22    |
|  | About three quarters | 10        | 2        | 2       | 6        | 20    |
|  | Almost all           | 12        | 1        | 0       | 14       | 27    |
| Total  |                      | 36        | 7        | 7       | 25       | 75    |

### Crosstabs: How much of subsistence foods came from family & others? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.8 During the last year, how much of your household's subsistence food came from the harvests of others? *Community | 70    | 89.7%   | 8       | 10.3%   | 78    | 100.0%  |

### D.8 In last yr. how much of HH's subsistence foods came from family and others? \* Community Crosstabulation

|   |                      | Community |          |         |          | Total |
|---|----------------------|-----------|----------|---------|----------|-------|
|   |                      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.8 During the last year, how much of your household's subsistence food came from the harvests of others? | None                 | 7         | 0        | 1       | 3        | 11    |
|   | About a quarter      | 20        | 2        | 5       | 12       | 39    |
|   | About half           | 4         | 0        | 1       | 7        | 12    |
|   | About three quarters | 0         | 1        | 0       | 0        | 1     |
|   | Almost all           | 4         | 2        | 0       | 1        | 7     |
| Total   |                      | 35        | 5        | 7       | 23       | 70    |



### Crosstabs: Subsistence give to other households (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D.9 During the last year, how much of your household's subsistence harvests did you give away to friends and relatives *<br>Community | 70    | 89.7%   | 8       | 10.3%   | 78    | 100.0%  |

### D.9 In last yr. how much of HH's subsistence did you give to family and others? \* Community Crosstabulation

|   |                      | Community |          |         |          | Total |
|---|----------------------|-----------|----------|---------|----------|-------|
|   |                      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.9 During the last year, how much of your household's subsistence harvests did you give away to friends and relatives? | None                 | 2         | 0        | 0       | 1        | 3     |
|   | About a quarter      | 8         | 3        | 1       | 8        | 20    |
|   | About half           | 17        | 0        | 5       | 12       | 34    |
|   | About three quarters | 6         | 2        | 1       | 1        | 10    |
|   | Almost all           | 1         | 1        | 0       | 1        | 3     |
| Total   |                      | 34        | 6        | 7       | 23       | 70    |

### Crosstabs: Changes in Trade & Barter Between Individuals & Families (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D.10 Has the amount of subsistence resources, money, and labor exchanged through trade and barter between individuals and families in the last 5 years increased, remained the same, or decreased? *<br>Community | 50    | 64.1%   | 28      | 35.9%   | 78    | 100.0%  |

### D.10 Has the amount of subsistence resources, money, and labor exchanged between individuals and families in the last 5 years increased, remained the same, or decreased?

|   |                   | Community |          |         |          | Total |
|---|-------------------|-----------|----------|---------|----------|-------|
|   |                   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.10 Has the amount of subsistence resources, money, and labor exchanged through trade and barter between individuals and families in the last 5 years increased, remained the same, or decreased? *<br>Community | Increased         | 5         | 0        | 1       | 3        | 9     |
|   | Remained the same | 15        | 5        | 4       | 13       | 37    |
|   | Decreased         | 2         | 0        | 0       | 2        | 4     |
| Total   |                   | 22        | 5        | 5       | 18       | 50    |

### Crosstabs: Meals with Friends (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D11 In the last 2 days, how many meals did you eat with a relative in another household? *Community | 69    | 88.5%   | 9       | 11.5%   | 78    | 100.0%  |

#### D11 In the last 2 days, how many meals were eaten with a relative in another household? \* Community Crosstabulation

|  |           | Community |          |         |          | Total |
|--|-----------|-----------|----------|---------|----------|-------|
|  |           | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D11 In the last 2 days, how many meals did you eat with a relative in another household? | None      | 14        | 5        | 3       | 7        | 29    |
|  | 1         | 4         | 2        | 3       | 4        | 13    |
|  | 2         | 9         | 0        | 0       | 5        | 14    |
|  | 3-4       | 6         | 0        | 0       | 3        | 9     |
|  | 5 or more | 2         | 0        | 1       | 1        | 4     |
| Total  |           | 35        | 7        | 7       | 20       | 69    |

### Crosstabs: Visiting with Friends & Relatives (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D12 During the last week, how often visited have you visited with friends or relatives? * Community | 72    | 92.3%   | 6       | 7.7%    | 78    | 100.0%  |

#### D12 During the last week, how often visited with friends or relatives? \* Community Crosstabulation

|   |                 | Community |          |         |          | Total |
|---|-----------------|-----------|----------|---------|----------|-------|
|   |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D12 During the last week, how often would you say you visited with friends and relatives? | None            | 7         | 1        | 2       | 5        | 15    |
|   | 1-2             | 8         | 4        | 4       | 10       | 26    |
|   | 3-4             | 21        | 2        | 1       | 7        | 31    |
|   | 5 or more times | 0         | 0        | 0       | 0        | 0     |
| Total   |                 | 36        | 7        | 7       | 22       | 72    |

### Crosstabs: Influence of Elders (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.13 Over the last 5 years, would you say the influence of elders in the village has increased, stayed the same, or decreased? * Community | 72    | 92.3%   | 6       | 7.7%    | 78    | 100.0%  |

#### D.13 In last 5 yrs. has the influence of elders changed? \* Community Crosstabulation

|  |                 | Community |          |         |          | Total |
|--|-----------------|-----------|----------|---------|----------|-------|
|  |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.13 Over the last 5 years, would you say the influence of elders in the village has increased, stayed the same, or decreased? * Community | Increased       | 8         | 1        | 2       | 8        | 19    |
|  | Stayed the Same | 18        | 3        | 3       | 6        | 30    |
|  | Decreased       | 9         | 3        | 2       | 9        | 23    |
| Total  |                 | 35        | 7        | 7       | 23       | 72    |

### Crosstabs: Visiting with Elders (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D.14 Over the last 5 yrs. Would you say that visiting with elders has increased, stayed the same, or decreased? * Community | 66    | 84.6%   | 12      | 15.4%   | 78    | 100.0%  |

#### D.14 In last 5 yrs. has visiting with elders changed? \* Community Crosstabulation

|   |                 | Community |          |         |          | Total |
|---|-----------------|-----------|----------|---------|----------|-------|
|   |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.14 Over the last 5 yrs. Would you say that visiting with elders has increased, stayed the same, or decreased? | Increased       | 2         | 2        | 0       | 2        | 6     |
|   | Stayed the Same | 18        | 3        | 3       | 11       | 35    |
|   | Decreased       | 12        | 2        | 4       | 7        | 25    |
| Total   |                 | 32        | 7        | 7       | 20       | 66    |

### Crosstabs: Sharing with Elders (WC)

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.15 Over the last 5 yrs. Would you say that sharing with elders has increased, stayed the same, or decreased? * Community | 72    | 92.3%   | 6       | 7.7%    | 78    | 100.0%  |

#### D.15 In last 5 years has sharing with elders changed? \* Community Crosstabulation

|  |                 | Community |          |         |          | Total |
|--|-----------------|-----------|----------|---------|----------|-------|
|  |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.15 Over the last 5 yrs. Would you say that sharing with elders has increased, stayed the same, or decreased? | Increased       | 12        | 2        | 3       | 7        | 24    |
|  | Stayed the Same | 22        | 5        | 4       | 14       | 45    |
|  | Decreased       | 1         | 0        | 0       | 2        | 3     |
| Total  |                 | 35        | 7        | 7       | 23       | 72    |

### Crosstabs: Respect for Elders (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.16 Over the last 5 years has respect for elders in the community increased, stayed the same, or decreased? * Community | 73    | 93.6%   | 5       | 6.4%    | 78    | 100.0%  |

#### D.16 In last 5 yrs. has respect for elders changed? \* Community Crosstabulation

|  |                 | Community |          |         |          | Total |
|--|-----------------|-----------|----------|---------|----------|-------|
|  |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.16 Over the last 5 years has respect for elders in the community increased, stayed the same, or decreased? | Increased       | 10        | 2        | 4       | 3        | 19    |
|  | Stayed the Same | 17        | 5        | 2       | 11       | 35    |
|  | Decreased       | 8         | 0        | 1       | 10       | 19    |
| Total  |                 | 35        | 7        | 7       | 24       | 73    |

**Crosstabs: Use of Language(s) in the Household (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.17 Which of the following best describes the use of language in your home – Iñupiaq mostly spoken at home, Yupik mostly spoken at home, both English and Iñupiaq/Yupik spoken at home, English mostly spoken at home, other? * Community | 73    | 93.6%   | 5       | 6.4%    | 78    | 100.0%  |

**D.17 Describe the use of languages within your household? \* Community Crosstabulation**

|  |                                     | Community |          |         |          | Total |
|--|-------------------------------------|-----------|----------|---------|----------|-------|
|  |                                     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.17 Which of the following best describes the use of language in your home – Iñupiaq mostly spoken at home, Yupik mostly spoken at home, both English and Iñupiaq/Yupik spoken at home, English mostly spoken at home, other? | Iñupiaq mostly spoken               | 7         | 3        | 0       | 0        | 10    |
|  | Yupik mostly spoken                 | 0         | 0        | 0       | 10       | 10    |
|  | Both English & Iñupiaq/Yupik spoken | 21        | 1        | 2       | 11       | 35    |
|  | English mostly spoken               | 4         | 3        | 5       | 1        | 13    |
|  | No response/missing                 | 4         | 0        | 0       | 1        | 5     |
| Total  |                                     | 36        | 7        | 7       | 23       | 73    |

**Crosstabs: Use of Other Languages in the Household (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.17. Describe the “other” use of languages in your household? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**D.17 Describe the “other” use of languages in your household? \* Community Crosstabulation**

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.17. Describe the “other” use of languages in your household? |  | 38        | 7        | 7       | 25       | 77    |
| Total  |  | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Changes in use of Iñupiaq/Yupik? (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D.21 What changes do you see in the use of Iñupiaq/Yupik in your community? * Community | 74    | 94.9%   | 4       | 5.1%    | 78    | 100.0%  |

### D.21 What changes do you see in the use of Iñupiaq/Yupik in your community? \* Community Crosstabulation

|   |               | Community |          |         |          | Total |
|---|---------------|-----------|----------|---------|----------|-------|
|   |               | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.21 Do you think the use of Iñupiaq/Yupik in this community will increase, stay the same, or decrease over the next few years? | Increase      | 7         | 2        | 2       | 4        | 15    |
|   | Stay the Same | 5         | 1        | 1       | 5        | 12    |
|   | Decrease      | 14        | 4        | 4       | 10       | 32    |
|   | Don't Know    | 6         | 0        | 0       | 0        | 6     |
|   | No response   | 4         | 0        | 0       | 5        | 9     |
| Total   |               | 36        | 7        | 7       | 24       | 74    |

### Crosstabs: Explanations for Future Changes in the Use of Aboriginal Languages (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D.21.a Can you explain why [these changes in language usage may occur]? * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### D.21.a Can you explain why these changes in language usage may occur? \* Community Crosstabulation

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.21.a Can you explain why [these changes in language usage may occur]? | <b>No additional comments offered</b>  | 15        | 0        | 0       | 14       | 29    |
|   | "TV and all that stuff -- we are being Westernized faster than we can say what is going on." "I want to be Iñupiat, but outside influences are pretty strong, and there are too many easy things." | 0         | 0        | 1       | 0        | 1     |
|   | A lot more people care in the village - want to see it increase; lots of children.   | 0         | 0        | 0       | 1        | 1     |
|   | A lot of people speak English, mostly.   | 0         | 0        | 0       | 1        | 1     |
|   | A lot of the younger kids are speaking English first now.  | 0         | 0        | 0       | 1        | 1     |
|   | Computers and TV is spoiling the use of Iñupiaq language. I blame the schools where outsiders teach everything in English.   | 1         | 0        | 0       | 0        | 1     |
|   | Depends on what they teach in school.  | 1         | 0        | 0       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Doesn't know for community or family members. His son was enrolled in the Iñupiaq immersion program that was started 5-6 years ago, but had to be withdrawn because his English skills became so poor he started falling behind in school and could not advance.  | 1         | 0        | 0       | 0        | 1     |
| Elders are ensuring it to maintain culture.   | 1         | 0        | 0       | 0        | 1     |
| English is the first language of more people, although young people are now learning Iñupiaq in school. His sons will ask the meaning of Iñupiaq words.   | 1         | 0        | 0       | 0        | 1     |
| Everyone is speaking English. Too much English, it's killing our language.  | 1         | 0        | 0       | 0        | 1     |
| From 14 years old, the kids are speaking English.   | 0         | 0        | 0       | 1        | 1     |
| Great niece is learning to speak and read Iñupiaq in school. When respondent was young speaking Iñupiaq was not allowed in school.  | 1         | 0        | 0       | 0        | 1     |
| Have to keep passing it on. English too.  | 0         | 0        | 0       | 1        | 1     |
| Hopefully it will increase with the teaching of Iñupiaq in school -- can no longer rely on it being spoken in households.   | 1         | 0        | 0       | 0        | 1     |
| If and when the current Elders are gone, English will be spoken all the time. The others always depend on him to give the invocation and prayer in Iñupiaq at meetings and such, at the opening and closing. He speaks English with his grandkids, and says that the younger ones hardly know any Iñupiaq, even though they have Iñupiaq class in school.   | 0         | 1        | 0       | 0        | 1     |
| Influx, lifestyles have changed from subsistence economy to a cash economy. In 30 years we have achieved the same as what the rest of the country took 100 years to do.   | 1         | 0        | 0       | 0        | 1     |
| Iñupiaq not taught in the school.   | 1         | 0        | 0       | 0        | 1     |
| It should stay pretty much the same, but he says that he really has no idea.  | 0         | 1        | 0       | 0        | 1     |
| Many kids have parents who do not know how to speak Iñupiaq anymore. These kids won't learn to speak Iñupiaq unless they have to. With a little kid, you need to speak Iñupiaq to him so that he will listen and learn. Respondent says that some of his nephews were away from home and the village too long when young and never learned to speak Iñupiaq. Others learned from their parents, especially when out whaling, because their parents spoke to them in Iñupiaq. Right now, young people especially do not speak Iñupiaq as | 0         | 1        | 0       | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| much as the older people do. His oldest brother's family is one exception to this. They taught their kids to respect Elders. Here the respondent told the same caribou story (how he could find them -- or they could find him -- when no one else even could find a trace of a caribou) to reinforce this. Respondent was taught to respect everyone by, among others, Harold Kaveolook (at the school). This caribou story is very important to the respondent and he uses it to exemplify many cultural values. |           |          |         |          |       |
| Mispronunciation of words.   | 1         | 0        | 0       | 0        | 1     |
| More people are willing to learn.  | 1         | 0        | 0       | 0        | 1     |
| More young people use English.   | 1         | 0        | 0       | 0        | 1     |
| No elaboration   | 0         | 0        | 1       | 0        | 1     |
| Observation -- apparent the younger folks are raising kids in English. Western culture really dominates. TV is influencing things. We are losing the language in Barrow; maintaining what we have is what we are trying to do.   | 1         | 0        | 0       | 0        | 1     |
| Respondent believes that more parents are teaching their kids Iñupiaq.   | 0         | 0        | 1       | 0        | 1     |
| Respondent said that most people are teaching their kids in Iñupiaq now.   | 0         | 0        | 1       | 0        | 1     |
| Respondent said that not too many people these days try to learn to speak Iñupiaq. Many kids probably understand it, but do not speak it much. That is one reason he encourages his son to go out to Arey Island with the respondent's mom (boy's grandmother) -- that way he will learn to speak more Iñupiaq.  | 0         | 1        | 0       | 0        | 1     |
| Respondent: The next generation will try to teach Iñupiaq but there will be even more pressures to use English in most situations than there is now -- and they won't have the Elders [who are primary Iñupiaq speakers] to push us to speak Iñupiaq to our children [because the Elders who are the primary speakers of Iñupiaq are getting old and dying].   | 0         | 0        | 1       | 0        | 1     |
| Teaching how to speak Eskimo to younger generation.  | 1         | 0        | 0       | 0        | 1     |
| Television   | 0         | 0        | 0       | 1        | 1     |
| The knowledge itself (of language) comes with the use of the language -- (i.e., hunting and whaling). TV- the kids speak fluent English, but they hardly use certain words in Yupik (or know the pronunciation).   | 0         | 0        | 0       | 1        | 1     |
| The meaning of Iñupiaq words is becoming less well known.  | 1         | 0        | 0       | 0        | 1     |



|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| The respondent at first said that Iñupiaq use would decrease, but then rethought it and said that usage would increase because there were more Native people moving to Kaktovik from Canada (more young people) and that they tended to be Iñupiaq speakers.  | 0         | 1        | 0       | 0        | 1     |
| The use of Iñupiaq during hunting keeps the language - it is more useful than English when hunting.   | 1         | 0        | 0       | 0        | 1     |
| The younger generation is having a hard time getting Iñupiaq in their tradition. They watch TV and listen to English everywhere they go.  | 1         | 0        | 0       | 0        | 1     |
| The ones that can speak laugh at the younger generation. When they say the words wrong, they discourage the young ones from speaking. He tries to speak to his grandkids but they do not understand, only the oldest can understand a little bit now.   | 1         | 0        | 0       | 0        | 1     |
| The younger ones are speaking Iñupiaq less than in the past, and the words and sounds of Iñupiaq are changing [due to the influence of non-fluent speakers]. Respondent says that they try to speak Iñupiaq when they are out whaling, and some of the young ones learn and remember in that context. However, he says that not many young people are learning Iñupiaq -- the kids speak mostly English, and their parents talk with them in English. For him, Iñupiaq was his first language and he learned English by reading "anything that was around." He went to work for NARL as a young man and knew little English at the time. He worked there for 11 years and learned on the job. Many kids in the village now have English as a first language, and all learn it as soon as they go to school if they have not learned it before then. | 0         | 0        | 1       | 0        | 1     |
| There is a lack of communication between youths and elders.   | 1         | 0        | 0       | 0        | 1     |
| There is now an Iñupiaq class in the school. He does say that it is funny that their own native language has to be taught in the school as a "foreign" language. His short conclusion -- "Times change."  | 0         | 1        | 0       | 0        | 1     |
| There is too much English spoken in too many different village situations, so that the kids never have to speak [or hear] Iñupiaq and thus never have to learn to speak [or even understand] Iñupiaq.   | 0         | 0        | 1       | 0        | 1     |
| Tradition - teaching to the younger ones.   | 0         | 0        | 0       | 1        | 1     |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Trying to pass it on - computer is making it difficult to keep the language.  | 0         | 0        | 0       | 1        | 1     |
|       | TV. The kids speak fluent English, pronunciation. They hardly use certain words. The knowledge itself comes with the use of language -- hunting and whaling.  | 0         | 0        | 0       | 1        | 1     |
|       | Use of Iñupiaq has been decreasing every year, but it is hard to say what will happen in the future -- if we keep speaking Iñupiaq to them (the younger kids) they will learn to speak it too. The school uses mainly English, and the younger people use English in most (or all) other situations as well. Most parents speak English with their kids. This question brought on a "flashback" to him of his own school experience, in BIA schools where he was prohibited from speaking Iñupiaq and did not know (and so could not speak, let alone read) English. This was a very traumatic experience for him, and thinking about it as an adult has made him realize the potential that schools [and other institutions] have for inducing or reinforcing social change. | 0         | 1        | 0       | 0        | 1     |
|       | Would like to see use of Iñupiaq increase in order not to lose it.  | 1         | 0        | 0       | 0        | 1     |
|       | Young kids are speaking English now.  | 0         | 0        | 0       | 1        | 1     |
|       | Young people are not growing up with it - too many people in the household speak English.   | 1         | 0        | 0       | 0        | 1     |
|       | Young people don't understand the language.   | 1         | 0        | 0       | 0        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: Coded Explanations for future Changes in Language (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| Coded explanations for changes in future of traditional language * Community | 47    | 60.3%   | 31      | 39.7%   | 78    | 100.0%  |

#### D.19a Coded explanations for changes in future of traditional language \* Community Crosstabulation

|  |                             | Community |          |         |          | Total |
|--|-----------------------------|-----------|----------|---------|----------|-------|
|  |                             | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.19a Coded explanations for changes in future of traditional language | Observation without comment | 11        | 1        | 0       | 4        | 16    |
|  | School/Technology           | 6         | 1        | 1       | 2        | 10    |
|  | Language Use                | 2         | 4        | 4       | 4        | 14    |
|  | Tradition/Elders            | 4         | 1        | 1       | 1        | 7     |
| Total  |                             | 23        | 7        | 6       | 11       | 47    |

### Crosstabs: Fluency of HH Head in Iñupiaq? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.20 HH Member #1 Fluency in Iñupiaq * Community | 55    | 70.5%   | 23      | 29.5%   | 78    | 100.0%  |

#### D.20 HH Member #1 Fluency in Iñupiaq \* Community Crosstabulation

|                                      |             | Community |          | Total |
|--------------------------------------|-------------|-----------|----------|-------|
|                                      |             | Barrow    | Savoonga |       |
| D.20 HH Member #1 Fluency in Iñupiaq | Fluent      | 31        | 2        | 33    |
|                                      | Less fluent | 4         | 0        | 4     |
|                                      | Don't Speak | 0         | 18       | 18    |
| Total                                |             | 35        | 20       | 55    |

### Crosstabs: HH Head's Ability to Read Iñupiaq? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.20a HH Member #1 Ability to Read Iñupiaq * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### D.20a HH Member #1 Ability to Read Iñupiaq \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.20a HH Member #1 Ability to Read Iñupiaq | No  | 16        | 7        | 7       | 24       | 54    |
|  | Yes | 22        | 0        | 0       | 1        | 23    |
| Total                                      |     | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: HH Head's Fluency in Yupik? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.21 HH Member #1 Fluency in Yupik * Community | 35    | 44.9%   | 43      | 55.1%   | 78    | 100.0%  |

#### D.21 HH Member #1 Fluency in Yupik \* Community Crosstabulation

|                                    |             | Community |          | Total |
|------------------------------------|-------------|-----------|----------|-------|
|                                    |             | Barrow    | Savoonga |       |
| D.21 HH Member #1 Fluency in Yupik | Fluent      | 0         | 23       | 23    |
|                                    | Don't Speak | 12        | 0        | 12    |
| Total                              |             | 12        | 23       | 35    |

### Crosstabs: HH Head's Ability to Read Yupik? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.21a HH Member #1 Ability to Read Yupik * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### D.21a HH Member #1 Ability to Read Yupik \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.21a HH Member #1 Ability to Read Yupik | No  | 38        | 7        | 7       | 16       | 68    |
|  | Yes | 0         | 0        | 0       | 9        | 9     |
| Total                                    |     | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: HH Head's Fluency in English? (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.22 HH Member #1 Fluency in English * Community | 53    | 67.9%   | 25      | 32.1%   | 78    | 100.0%  |

#### D.22 HH Member #1 Fluency in English \* Community Crosstabulation

|                                      |             | Community |          | Total |
|--------------------------------------|-------------|-----------|----------|-------|
|                                      |             | Barrow    | Savoonga |       |
| D.22 HH Member #1 Fluency in English | Fluent      | 27        | 19       | 46    |
|                                      | Less fluent | 5         | 1        | 6     |
|                                      | Don't Speak | 0         | 1        | 1     |
| Total                                |             | 32        | 21       | 53    |

### Crosstabs: HH Head's Ability to Read English (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| D.22a HH Member #1 Ability to Read English * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### D.22a HH Member #1 Ability to Read English \* Community Crosstabulation

|  |     | Community |          |         |          | Total |
|--|-----|-----------|----------|---------|----------|-------|
|  |     | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.22a HH Member #1 Ability to Read English | No  | 33        | 7        | 7       | 9        | 56    |
|  | Yes | 5         | 0        | 0       | 16       | 21    |
| Total                                      |     | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: HH Head's Fluency in Other Language? (WC) - All Communities

|                                      | Cases |         |         |         |       |         |
|--------------------------------------|-------|---------|---------|---------|-------|---------|
|                                      | Valid |         | Missing |         | Total |         |
|                                      | N     | Percent | N       | Percent | N     | Percent |
| D.22 Other Language Name * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### D.22 Other Language Name \* Community Crosstabulation

|                          |                                       | Community |          |         |          | Total |
|--------------------------|---------------------------------------|-----------|----------|---------|----------|-------|
|                          |                                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.22 Other Language Name | <b>No additional comments offered</b> | 36        | 7        | 7       | 25       | 75    |
|                          | Japanese                              | 1         | 0        | 0       | 0        | 1     |
|                          | Sign language                         | 1         | 0        | 0       | 0        | 1     |
| Total                    |                                       | 38        | 7        | 7       | 25       | 77    |

### Crosstabs: HH Head's Ability to Read Other Language (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| D.22a HH Member #1 Ability to Read Other Language * Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### D.22a HH Member #1 Ability to Read Other Language \* Community Crosstabulation

|   |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| D.22a HH Member #1 Ability to Read Other Language | No | 38        | 7        | 7       | 25       | 77    |
| Total   |    | 38        | 7        | 7       | 25       | 77    |

## **PART E: COMMUNITY PERCEPTIONS**



## PART E: COMMUNITY PERCEPTIONS

### Crosstabs: Respect for Whaling Captains from Others - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| E.1.a In the last 5 years, do you think the amount of respect you get from others has increased, stayed the same, decreased? * Community | 71    | 91.0%   | 7       | 9.0%    | 78    | 100.0%  |
| E1a_txt Why change in respect? * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### E.1.a In the last 5 years, the amount of respect you get from others? \* Community Crosstabulation

|  |                 | Community |          |         |          | Total |
|--|-----------------|-----------|----------|---------|----------|-------|
|  |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.a In the last 5 years, do you think the amount of respect you get from others has increased, stayed the same, decreased? | Increased       | 13        | 2        | 2       | 4        | 21    |
|  | Stayed the Same | 21        | 5        | 5       | 11       | 42    |
|  | Decreased       | 1         | 0        | 0       | 7        | 8     |
| Total  |                 | 35        | 7        | 7       | 22       | 71    |

#### E1a\_txt Why change in respect? \* Community Crosstabulation

|                                   |  | Community |          |         |          | Total |
|-----------------------------------|--|-----------|----------|---------|----------|-------|
|                                   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1a_txt Why change in respect?    | No additional information provided   | 31        | 6        | 6       | 19       | 62    |
|                                   | Stayed the same.   | 1         | 0        | 0       | 0        | 1     |
|                                   | Because he got a whale.  | 1         | 0        | 0       | 0        | 1     |
|                                   | Crew is a closely knit group.  | 1         | 0        | 0       | 0        | 1     |
|                                   | Elected to the Board of Directors of the Barrow Whaling Captains' Association. | 1         | 0        | 0       | 0        | 1     |
|                                   | From younger generations - some of the teenagers have their own way.           | 0         | 0        | 0       | 2        | 2     |
|                                   | Has young friends.   | 0         | 0        | 0       | 1        | 1     |
|                                   | He is always voted to be director in community organizations.                  | 1         | 0        | 0       | 0        | 1     |
|                                   | I became a captain.  | 1         | 0        | 0       | 0        | 1     |
|                                   | Maybe because of his age [he just turned 60].                                  | 0         | 1        | 0       | 0        | 1     |
|                                   | Mutual respect has continued.  | 1         | 0        | 0       | 0        | 1     |
|                                   | Says he would not know one way or the other [may be personal modesty].         | 0         | 0        | 1       | 0        | 1     |
|                                   | Western civilization.  | 0         | 0        | 0       | 1        | 1     |
|                                   | Young people.  | 0         | 0        | 0       | 1        | 1     |
| Young people are less respectful. | 0  | 0         | 0        | 1       | 1        |       |
| Total                             |  | 38        | 7        | 7       | 25       | 77    |



## Crosstabs: Community Respect for Whaling Captains - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.b In last 5 yrs, do you think the amount of respect whaling captains generally get from people in this community has increased, stayed the same, decreased? * Community | 71    | 91.0%   | 7       | 9.0%    | 78    | 100.0%  |
| E1b_txt Why change in respect for whaling captains? * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### E.1.b In last 5 yrs, the amount of respect whaling captains generally get? \* Community Crosstabulation

|   |                 | Community |          |         |          | Total |
|---|-----------------|-----------|----------|---------|----------|-------|
|   |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.b In last 5 yrs, do you think the amount of respect whaling captains generally get from people in this community has increased, stayed the same, decreased? | Increased       | 10        | 1        | 3       | 4        | 18    |
|   | Stayed the Same | 22        | 5        | 4       | 18       | 49    |
|   | Decreased       | 3         | 1        | 0       | 0        | 4     |
| Total   |                 | 35        | 7        | 7       | 22       | 71    |

### E1b\_txt Why change in respect for whaling captains? \* Community Crosstabulation

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1b_txt Why change in respect for whaling captains?  | <b>No additional comments offered</b>              | 28        | 5        | 6       | 22       | 61    |
|  | "A little bit."                                    | 0         | 1        | 0       | 0        | 1     |
|  | Captains are considered role models.               | 1         | 0        | 0       | 0        | 1     |
|  | Especially older captains but even younger ones.   | 1         | 0        | 0       | 0        | 1     |
|  | It's a lot of responsibility when you are captain. | 0         | 0        | 0       | 1        | 1     |
|  | MMS people don't listen.                           | 1         | 0        | 0       | 0        | 1     |
|  | More respect.                                      | 0         | 0        | 0       | 1        | 1     |
|  | Oldest active whaler went to a younger person.     | 1         | 0        | 0       | 0        | 1     |
|  | People have respect for Iñupiaq laws.              | 1         | 0        | 0       | 0        | 1     |
|  | Respect for leaders is ingrained in us.            | 1         | 0        | 0       | 0        | 1     |
| Respondent here again discussed what he perceives to be some changes in what it means to be a whaling captain, or how he thinks the whaling captains of today are different from those of the past. He says that there are two different meanings to being a whaling captain (or perhaps two different sorts of respect, or reasons that people respect whaling captains): 1) Those who are "rich in meat" and 2) those who are "rich in money." He says that there is an abundance of store-bought stuff. A person can go in with money and come out with "ready-to-eat" stuff versus going out, finding and killing something, skinning and processing it, bringing it back -- more effort and need more | 0  | 0         | 1        | 0       | 1        |       |

|              |  | Community |          |          |           | Total     |
|--------------|--|-----------|----------|----------|-----------|-----------|
|              |  | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | knowledge and resources and not just money (still do need some amount of money).   |           |          |          |           |           |
|              | Respondent said "2" or maybe is even increasing. The captain is responsible for anyone and everyone on the crew -- they have all come to the captain and asked to be on the crew. The captain is responsible for their behavior and attitudes. The crew should not try and be better than the captain, but just follow his advice and orders. This can be a challenge when the crew does not take a whale, maybe for several years in a row. Respondent gave as an example one of his brothers who whaled with him for several years when respondent was a captain. This brother did not like to follow and was somewhat vocal about it, and finally he gave up on whaling. The crew never got a whale while he was on the crew (went out in the boat) but after he quit they got whales two years in a row. The crew has to fit together and be harmonious. The brother had been the one who would not listen, and he finally was too old to want to follow in the boat. In the boat especially the crew needs to be of one accord. The respondent joked the crew had to have "one life to live" [after the soap opera of the same name]. | 0         | 1        | 0        | 0         | 1         |
|              | Strong support for WCs.  | 0         | 0        | 0        | 1         | 1         |
|              | They are the people who provide the muktuk and meat.   | 1         | 0        | 0        | 0         | 1         |
|              | To learn, get wisdom.  | 1         | 0        | 0        | 0         | 1         |
|              | Young crew members.  | 1         | 0        | 0        | 0         | 1         |
|              | Younger captains have no respect for the culture and elders. They no longer treat the whale with respect. When a captain provides meat to the community it is supposed to be clean -- ready to eat. Young captains don't care -- they are sloppy.  | 1         | 0        | 0        | 0         | 1         |
| <b>Total</b> |  | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

**Crosstabs: Opportunities for Good Jobs in Community (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| E.1.c In last 5 yrs, have the opportunities for good jobs increased, stayed the same, decreased? * Community | 68    | 87.2%   | 10      | 12.8%   | 78    | 100.0%  |
| E1c_txt Why change in opportunity for good jobs? * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.c In last 5 yrs, has the opportunity for good jobs changed? \* Community Crosstabulation**

|  |                 | Community |          |         |          | Total |
|--|-----------------|-----------|----------|---------|----------|-------|
|  |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.c In last 5 yrs, have the opportunities for good jobs increased, stayed the same, decreased? | Increased       | 1         | 0        | 2       | 12       | 15    |
|  | Stayed the Same | 2         | 3        | 0       | 9        | 14    |
|  | Decreased       | 30        | 3        | 5       | 1        | 39    |
| Total  |                 | 33        | 6        | 7       | 22       | 68    |

**E1c\_txt Why change in opportunity for good jobs? \* Community Crosstabulation**

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1c_txt Why change in opportunity for good jobs? | <b>No additional comments offered</b>   | 18        | 2        | 4       | 17       | 41    |
|  | Borough is going broke and not hiring. People are being laid off, especially in the outer villages. These people are moving to Barrow to try to find jobs.  | 1         | 0        | 0       | 0        | 1     |
|  | Budget cuts.  | 1         | 0        | 0       | 0        | 1     |
|  | Declining revenue.  | 1         | 0        | 0       | 0        | 1     |
|  | Declining revenues, budget cuts.  | 1         | 0        | 0       | 0        | 1     |
|  | Decrease in NSB revenues.   | 1         | 0        | 0       | 0        | 1     |
|  | Decreasing NSB revenues and conflicts within ASRC.  | 1         | 0        | 0       | 0        | 1     |
|  | Don't know.   | 1         | 0        | 0       | 0        | 1     |
|  | Hiring is family oriented.  | 0         | 0        | 0       | 1        | 1     |
|  | Historical - we have a false economy. People thought they did not need to go to school. It ultimately comes from the impact oil and gas has had. 5 years ago people were living high off the hog, but now those jobs are no more. What happens to those people? | 1         | 0        | 0       | 0        | 1     |
|  | Increase in population and Borough funding depleting.   | 1         | 0        | 0       | 0        | 1     |
|  | Jobs in the community are getting fewer.  | 0         | 1        | 0       | 0        | 1     |
|  | Less budget, less revenue. Revenue whaling is cut off.  | 1         | 0        | 0       | 0        | 1     |
|  | Local hire.   | 0         | 0        | 0       | 1        | 1     |
|  | Many young people but no jobs.  | 1         | 0        | 0       | 0        | 1     |
|  | Massive NSB budget cuts.  | 1         | 0        | 0       | 0        | 1     |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | More complicated than the choices available -- jobs here are up and down. The openings here (or locally) are greater than in the past but it was not until recently that the oil companies and such started to really try to hire local people. Before, many of their hires were from further south (Fairbanks, Anchorage, Kenai Peninsula, or out of state). | 0         | 0        | 1       | 0        | 1     |
|       | Most of the jobs in town are seasonal -- fewer jobs (permanent or seasonal) in town than in the past.   | 0         | 1        | 0       | 0        | 1     |
|       | New office jobs are available in the State and NSB.   | 1         | 0        | 0       | 0        | 1     |
|       | No real comment from respondent, but related to industry development and village corporation involvement -- NSB jobs fewer than in the past.  | 0         | 0        | 1       | 0        | 1     |
|       | NSB and school district budget cuts have decreased employment.  | 1         | 0        | 0       | 0        | 1     |
|       | NSB budget cuts.  | 1         | 0        | 0       | 0        | 1     |
|       | NSB budget problems. Other corporate entities are also experiencing reductions in force.  | 1         | 0        | 0       | 0        | 1     |
|       | NSB job cutbacks.   | 1         | 0        | 0       | 0        | 1     |
|       | NSB revenues declining.   | 1         | 0        | 0       | 0        | 1     |
|       | Odd jobs.   | 0         | 0        | 0       | 2        | 2     |
|       | Oil production is reduced.  | 1         | 0        | 0       | 0        | 1     |
|       | Projects are seasonal, and there are fewer permanent jobs than in the past.   | 0         | 1        | 0       | 0        | 1     |
|       | Respondent said that he could not say -- you cannot know about tomorrow.  | 0         | 1        | 0       | 0        | 1     |
|       | Seasonal/temporary.   | 0         | 0        | 0       | 1        | 1     |
|       | Slowly.   | 0         | 0        | 0       | 1        | 1     |
|       | Teachers aids, contractors.   | 0         | 0        | 0       | 1        | 1     |
|       | The economy is poor; as a result of NSB job cutbacks only the essential jobs are still filled.  | 1         | 0        | 0       | 0        | 1     |
|       | The majority is unemployed; only work seasonally during the summer.   | 0         | 0        | 0       | 1        | 1     |
|       | The young ones are growing up now and want jobs too -- and more are looking for work.   | 0         | 1        | 0       | 0        | 1     |
|       | There are fewer jobs, and the rate of pay is lower.   | 0         | 0        | 1       | 0        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Impact of Oil & Gas Development on Community? (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.d In last 5 yrs, has the impact of oil and gas development on aspects of the community such as Iñupiaq language, traditional activities, and subsistence been positive, neutral, or negative? * Community | 56    | 71.8%   | 22      | 28.2%   | 78    | 100.0%  |
| E1d_txt Why impact of oil and gas development? * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.d In last 5 yrs, what has been the impact of oil and gas development? \* Community Crosstabulation**

|   |          | Community |          |         |          | Total |
|---|----------|-----------|----------|---------|----------|-------|
|   |          | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.d In last 5 yrs, has the impact of oil and gas development on aspects of the community such as Iñupiaq language, traditional activities, and subsistence been positive, neutral, or negative? | Positive | 7         | 0        | 1       | 4        | 12    |
|   | Neutral  | 9         | 3        | 4       | 13       | 29    |
|   | Negative | 10        | 3        | 1       | 1        | 15    |
| Total   |          | 26        | 6        | 6       | 18       | 56    |

**E1d\_txt Why impact of oil and gas development? \* Community Crosstabulation**

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| EE1d_txt Why impact of oil and gas development? | <b>No additional comments offered</b>  | 17        | 3        | 4       | 18       | 42    |
|   | A balance of positive and negative, but did not want to detail any of it.  | 0         | 0        | 1       | 0        | 1     |
|   | All depends on the individual. It is making people go out further to hunt.   | 1         | 0        | 0       | 0        | 1     |
|   | As far as hunting, we don't want to see oil rigs and roads. There is tundra damage from seismic activity. The seismic crew left tracks that are visible on the tundra - these imprints last forever. | 1         | 0        | 0       | 0        | 1     |
|   | Brings in people from all over that influence the community. They teach how to drink, smoke, etc.  | 1         | 0        | 0       | 0        | 1     |
|   | Communication is good -- villagers and industry are working together.  | 1         | 0        | 0       | 0        | 1     |
|   | Cost of fuel.  | 0         | 0        | 0       | 1        | 1     |
|   | Did not elaborate.   | 0         | 0        | 1       | 0        | 1     |
|   | Few local residents work for the oil companies.  | 1         | 0        | 0       | 0        | 1     |
|   | For Barrow   | 1         | 0        | 0       | 0        | 1     |

|   | Community |          |         |          | Total |
|---|-----------|----------|---------|----------|-------|
|   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Geographic isolation. We are 200 miles away from the mainland.  | 0         | 0        | 0       | 1        | 1     |
| Good.   | 0         | 0        | 0       | 1        | 1     |
| Good -- provides jobs and cash in pockets. Bad -- Animals are further out, requiring the use of more gas (money).   | 1         | 0        | 0       | 0        | 1     |
| Good -- provides money and jobs. Bad --- oil spills and damage to tundra.   | 1         | 0        | 0       | 0        | 1     |
| He does want ANWR to open for drilling and for that reason is working to elect Bush president of USA.   | 0         | 1        | 0       | 0        | 1     |
| He says it has had negative effects both on the people and on the land. If you look at the land after the snow goes away you can still see the lines where the seismic lines were put down. [Has talked about pipelines in response to other questions]. He says that the Iñupiat used to live without money, but now obtain most of their food from the store. "People can no longer live without money these days." | 0         | 0        | 1       | 0        | 1     |
| If oil companies provide jobs.  | 1         | 0        | 0       | 0        | 1     |
| If there is more seismic in the area it will affect everything. It has to stop somehow.   | 0         | 1        | 0       | 0        | 1     |
| Impacts - future of whale migration.  | 0         | 0        | 0       | 1        | 1     |
| Industry is trying to keep the noise down by shutting down during certain periods. But seismic activity in fall has had a negative effect on wildlife.  | 1         | 0        | 0       | 0        | 1     |
| Long-term negative effects on wildlife.   | 1         | 0        | 0       | 0        | 1     |
| Mixed impacts. The positive impacts include tax revenues, low-cost housing, inexpensive fuel, etc. The negative effects include loss of subsistence activities due to wildlife disturbance and drug and alcohol problems for which there seem to be no solution.  | 1         | 0        | 0       | 0        | 1     |
| More cash for gas.  | 0         | 0        | 0       | 1        | 1     |
| More helicopters are disturbing wildlife.   | 1         | 0        | 0       | 0        | 1     |
| Need gas for snow machine.  | 0         | 0        | 0       | 1        | 1     |
| Need gas for whaling.   | 0         | 0        | 0       | 1        | 1     |
| Nuiqsut - we need to go out further and further.  | 1         | 0        | 0       | 0        | 1     |
| People are worried and scared, just thinking about drilling is making people nervous.   | 1         | 0        | 0       | 0        | 1     |
| Positive -- It brought us into the 21st century. Negative -- Here we are with all its ills. Drugs and alcohol are a problem.  | 1         | 0        | 0       | 0        | 1     |

|              |   | Community |          |          |           | Total     |
|--------------|---|-----------|----------|----------|-----------|-----------|
|              |   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | Respondent did not really make a choice of the responses, but his explanation was pretty much all negative. He said that the results were negative when the oil workers did seismic in the Kaktovik area, and that when there was drilling in the area the whales went 30 miles offshore. This is an hour or more at high speed from the beach. This is the year when the story of his sister's warning of the high west winds took place. This is another important story to the respondent -- he told it again here. Even though the whalers finally did find whales 30 miles out, where it was dead calm in the ice, they came right back to Kaktovik at high speed when his sister told them too. They got back just in time, right before the high winds came up. The one crew that delayed and did not come right back was caught, had to just go to shore as quick as they could and beach their boat on a barrier island and get rescued by a helicopter. Weather can change quickly and it is dangerous to whale too far from shore. Towing a whale 30 miles can take a long time (4 to 10 hours, maybe longer in bad conditions). | 0         | 1        | 0        | 0         | 1         |
|              | Respondent says that Prudhoe Bay has oil and gas development, but that so far Kaktovik does not. He says such development has both positive and negative effects, and felt that none of the choices offered him reflected those views.  | 0         | 1        | 0        | 0         | 1         |
|              | Seismic testing has scared wildlife resources.  | 1         | 0        | 0        | 0         | 1         |
|              | Tax base has been impacted -- decreasing/downsizing.  | 1         | 0        | 0        | 0         | 1         |
|              | The ocean went out early, there was a mild winter. Don't like it, it makes whaling more dangerous.  | 1         | 0        | 0        | 0         | 1         |
|              | There is more interaction between Federal government/oil companies and Native villages.   | 1         | 0        | 0        | 0         | 1         |
|              | Villagers make recommendations but oil companies don't listen -- recommendations are amended.   | 1         | 0        | 0        | 0         | 1         |
| <b>Total</b> |   | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

**Crosstabs: Relations Between Natives & Non-Natives? (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.e In last 5 yrs, have relations between Iñupiat/Yupik and non-Iñupiat improved, stayed the same, or worsened? * Community | 63    | 80.8%   | 15      | 19.2%   | 78    | 100.0%  |
| E1e_txt Why has relations between Natives and non-Natives changes? * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.e In last 5 yrs, how have relations between Iñupiat/Yupik and non-Iñupiat/non-Yupik changed? \* Community Crosstabulation**

|   |                 | Community |          |         |          | Total |
|---|-----------------|-----------|----------|---------|----------|-------|
|   |                 | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.e In last 5 yrs, have relations between Iñupiat/Yupik and non-Iñupiat improved, stayed the same, or worsened? | Improved        | 14        | 2        | 1       | 6        | 23    |
|   | Stayed the same | 14        | 4        | 3       | 12       | 33    |
|   | Worsened        | 2         | 1        | 1       | 3        | 7     |
| Total   |                 | 30        | 7        | 5       | 21       | 63    |

**E1e\_txt Why has relations between Natives and non-Natives changes? \* Community Crosstabulation**

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1e_txt Why has relations between Natives and non-Natives changes? | <b>No additional comments offered</b>   | 24        | 5        | 6       | 22       | 57    |
|  | All depends on individuals.   | 1         | 0        | 0       | 0        | 1     |
|  | Relations got worse with more outsiders coming in.  | 1         | 0        | 0       | 0        | 1     |
|  | Downsizing is creating problems - white folks are holding onto jobs, locals are being let go.       | 1         | 0        | 0       | 0        | 1     |
|  | He says that the town has always been friendly to everyone.   | 0         | 1        | 0       | 0        | 1     |
|  | In the community same, outside – MMS.   | 1         | 0        | 0       | 0        | 1     |
|  | Intermarriage.  | 1         | 0        | 0       | 0        | 1     |
|  | It is either improving or staying the same.   | 0         | 0        | 0       | 1        | 1     |
|  | Kids want to pick on people that aren't the same race.  | 0         | 0        | 0       | 1        | 1     |
|  | More interaction.   | 1         | 0        | 0       | 0        | 1     |
|  | More intermarriages.  | 1         | 0        | 0       | 0        | 1     |
|  | Mutual help between groups in increasing - e.g., offering assistance if stranded while out hunting. | 1         | 0        | 0       | 0        | 1     |
|  | People are communicating a lot more and are not hiding things such as oil spills.                   | 1         | 0        | 0       | 0        | 1     |



|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Relationship is good for the most part for those that are family members, it depends upon the culture.   | 1         | 0        | 0       | 0        | 1     |
|       | Sometimes, while working on the gas pipeline job, the 1st crew did not respect anything and respondent's crew had to redo everything that the 1st crew had done [1st crew was mainly non-locals, 2nd crew was mainly local].   | 0         | 0        | 1       | 0        | 1     |
|       | The presence of many outsiders has improved relations.   | 1         | 0        | 0       | 0        | 1     |
|       | There are more good relations and morale.  | 1         | 0        | 0       | 0        | 1     |
|       | There are now other cultures here -- Polynesians, Filipinos and others. They do their own dances during community events like Naluqataq, and they cook their own food for these events. It is local food but prepared in their own cultural way (e.g., caribou chop suey). | 1         | 0        | 0       | 0        | 1     |
|       | There used to be racial tension, but now there is better communication. The outsiders are slowly integrating into our society. There is intermarriage.   | 1         | 0        | 0       | 0        | 1     |
|       | Worse a little bit. People in general do not want "outsiders" in town.   | 0         | 1        | 0       | 0        | 1     |
|       | Yupiks against white people for hunting -- federal law says only natives can hunt.   | 0         | 0        | 0       | 1        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Importance of Maintaining Native Culture (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.f In last 5 yrs, is maintaining Iñupiaq and Yupik traditional activities important, neither important or unimportant, or unimportant? * Community | 70    | 89.7%   | 8       | 10.3%   | 78    | 100.0%  |
| E1f_txt Why importance of maintaining Native culture? * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.f In last 5 yrs, how important is maintaining Native culture? \* Community Crosstabulation**

|   |                                  | Community |          |         |          | Total |
|---|----------------------------------|-----------|----------|---------|----------|-------|
|   |                                  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.f In last 5 yrs, is maintaining Iñupiaq and Yupik traditional activities important, neither important or unimportant, or unimportant? | Important                        | 33        | 7        | 7       | 22       | 69    |
|   | Neither Important or Unimportant | 1         | 0        | 0       | 0        | 1     |
| Total   |                                  | 34        | 7        | 7       | 22       | 70    |

**E1f\_txt Why importance of maintaining Native culture? \* Community Crosstabulation**

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1f_txt Why importance of maintaining Native culture? | <b>No additional comments offered</b>  | 26        | 7        | 6       | 17       | 56    |
|   | "Eskimos" is our word of life, trying to carry on what our grandparents did.   | 0         | 0        | 0       | 1        | 1     |
|   | "It is who I am. If culture changes, we would not survive."  | 1         | 0        | 0       | 0        | 1     |
|   | He says it is up to each individual. Language "is what he is about" [is what helps define who and what a person is].             | 0         | 0        | 1       | 0        | 1     |
|   | Do not want to lose heritage.  | 1         | 0        | 0       | 0        | 1     |
|   | Extremely.   | 1         | 0        | 0       | 0        | 1     |
|   | I can eat what I like to eat; can freeze it in ice cellars and have it all year, or give it to people that don't hunt, share it. | 1         | 0        | 0       | 0        | 1     |
|   | It is our culture.   | 1         | 0        | 0       | 0        | 1     |
|   | It is the first thing.   | 1         | 0        | 0       | 0        | 1     |
|   | It's our tradition. I try to keep our tradition alive: (i.e.) the way food is stored. We keep food for the winter.               | 1         | 0        | 0       | 0        | 1     |

|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | No matter what we do or say, it doesn't matter. Mitigation is needed. In 1979, when seismic activity started, we had to go out 50 miles. One could hear the explosions for 30 miles or so, we did not see a whale that entire season. The name of the ship was the "Canadian Sea." It was a Canadian ship. The seismic activity ended and we saw whales in the spring. If you can hear an explosion for 30 miles, just imagine how loud it is in the ocean, where sound is magnified for the whales. | 1         | 0        | 0       | 0        | 1     |
|       | Self esteem, knowing who you are.  | 0         | 0        | 0       | 1        | 1     |
|       | They pass it on to the young.  | 0         | 0        | 0       | 1        | 1     |
|       | This will be the only thing left when the oil is gone.   | 1         | 0        | 0       | 0        | 1     |
|       | Very - cultural is very important.   | 0         | 0        | 0       | 1        | 1     |
|       | Very important!  | 0         | 0        | 0       | 2        | 2     |
|       | Very important!  | 0         | 0        | 0       | 1        | 1     |
|       | Very!  | 1         | 0        | 0       | 0        | 1     |
|       | Very.  | 1         | 0        | 0       | 0        | 1     |
|       | Way of life.   | 1         | 0        | 0       | 0        | 1     |
|       | We're loosing our traditions, people.  | 0         | 0        | 0       | 1        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Involvement of Youth in Cultural Activities (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.g In last 5 yrs, do you think the participation of young people in cultural activities like Naluqataq is growing, staying the same, or diminishing? * Community | 69    | 88.5%   | 9       | 11.5%   | 78    | 100.0%  |
| E1g_txt Why level of youth involvement in cultural activities? * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.g In last 5 yrs, has the involvement of youth in cultural activities changed? \* Community Crosstabulation**

|   |                  | Community |          |         |          | Total |
|---|------------------|-----------|----------|---------|----------|-------|
|   |                  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.g In last 5 yrs, do you think the participation of young people in cultural activities like Naluqataq is growing, staying the same, or diminishing? | Growing          | 21        | 2        | 6       | 5        | 34    |
|   | Staying the Same | 9         | 4        | 1       | 12       | 26    |
|   | Diminishing      | 2         | 1        | 0       | 6        | 9     |
| Total   |                  | 32        | 7        | 7       | 23       | 69    |

**E1g\_txt Why level of youth involvement in cultural activities? \* Community Crosstabulation**

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1g_txt Why level of youth involvement in cultural activities? | <b>No additional comments offered</b>   | 22        | 4        | 5       | 16       | 47    |
|  | At school, starting to stop teaching Yupiq - there are no more carving teachers; no boat making teachers.   | 0         | 0        | 0       | 1        | 1     |
|  | Barrow is a close knit community.   | 1         | 0        | 0       | 0        | 1     |
|  | Becoming stronger; tries to inform younger people.  | 0         | 0        | 0       | 1        | 1     |
|  | Depends on the weather. His children like to be involved.   | 1         | 0        | 0       | 0        | 1     |
|  | Distracted by too many non-traditional activities.  | 1         | 0        | 0       | 0        | 1     |
|  | Elders are talking more to young people, teaching them cultural activities. Young people want to learn more about the Iñupiat way of life. The schools are also having a positive effect on getting young people interested in cultural activities. | 1         | 0        | 0       | 0        | 1     |
|  | Especially Eskimo dancing -- the kids seem to be very interested in that.   | 0         | 1        | 0       | 0        | 1     |

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Initially went with "2," then said "maybe 3." It would be different if there were more whaling crews involved in encouraging the younger kids to learn about (and actually go) whaling. He said that some kids are curious and have asked him how they could get out to Cross Island. But there are now 2 different meanings to being a whaling captain [and he develops this idea a bit more]. A "real" captain looks at the young guys year-round to see if they have what it takes to go whaling. He cites his own experience where he had to ask and work for several years before he was even allowed to go out as a helper (did not get in the boat for several years after that). His dad had been with that crew for several years before the respondent was allowed to go out with them. This crew was mainly made up of relatives (as is the respondent's crew). Now, however, it is just easier to fork over some money and whaling captains may not be so attentive year-round. "Iñupiat are on the losing side" and he does not think that trend can be reversed. | 0         | 0        | 1       | 0        | 1     |
|  | Interest is being maintained.  | 1         | 0        | 0       | 0        | 1     |
|  | It's fun.  | 1         | 0        | 0       | 0        | 1     |
|  | It's staying the same and diminishing.   | 0         | 0        | 0       | 2        | 2     |
|  | Local schools have started an Iñupiaq immersion program.   | 1         | 0        | 0       | 0        | 1     |
|  | Marked both "growing" and "staying the same" - couldn't decide.  | 0         | 0        | 0       | 1        | 1     |
|  | More kids are getting into it.   | 1         | 0        | 0       | 0        | 1     |
|  | More younger people just want to ride ATVs, not let their hands get oily (from hunting) or messed up.  | 0         | 0        | 0       | 1        | 1     |
|  | My kids aren't interested in any native activities - not cool - they are embarrassed. Not interested in traditional native Olympic games.  | 0         | 0        | 0       | 1        | 1     |
|  | Population of Barrow is growing; also, traditional values are being taught in schools.   | 1         | 0        | 0       | 0        | 1     |
|  | Reduced in language usage.   | 0         | 0        | 0       | 1        | 1     |

|              |   | Community |          |          |           | Total     |
|--------------|---|-----------|----------|----------|-----------|-----------|
|              |   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | Respondent says not enough people are interested in learning. That is the reason it is so important to learn your Iñupiaq language -- the older you get the more you know that it is exactly what you need. Sort of related to this, respondent said that they do not make Nuluqataq (blanket for blanket toss) the same way as they do in NQT. They need so many oogruk skins, and so many seal skin nets. If they do not use the seal skin nets under the skin, the jumpers may break through the skin. | 0         | 1        | 0        | 0         | 1         |
|              | Respondent thinks that some younger people will probably want to go out whaling, so that they will have no choice but to also be involved in cultural activities such as Naluqataq.   | 0         | 1        | 0        | 0         | 1         |
|              | School - learning English language, wants to wear English clothes, but they can still play with it. Would rather play basketball, volleyball, etc.  | 0         | 0        | 0        | 1         | 1         |
|              | The communities are getting them more involved in cultural activities.  | 1         | 0        | 0        | 0         | 1         |
|              | The younger generation is embarrassed to Eskimo dance, to talk their language.  | 1         | 0        | 0        | 0         | 1         |
|              | There are more and more young people compared to old people in NQT, and the kids are growing up and themselves having kids. The young are now dominating the village population, so the participation of young people will be increasing.   | 0         | 0        | 1        | 0         | 1         |
|              | This is the connection to who they are.   | 1         | 0        | 0        | 0         | 1         |
|              | Young people are doing a good job of taking over cultural activities.   | 1         | 0        | 0        | 0         | 1         |
|              | Young people are getting into the traditional way of life.  | 1         | 0        | 0        | 0         | 1         |
|              | Young people want to carry on traditions.   | 1         | 0        | 0        | 0         | 1         |
|              | Younger generation wants to try something new.  | 1         | 0        | 0        | 0         | 1         |
| <b>Total</b> |   | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

## Crosstabs: Future Youth Involvement (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.h In the next 5 years, do you expect young people will be involved in cultural activities like Naluqataq: more than they do now, about the same, or less than they do now?<br>* Community | 63    | 80.8%   | 15      | 19.2%   | 78    | 100.0%  |
| E1h_txt Why future youth involvement in cultural activities? * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

### E.1.h In the next 5 yrs, will young people be involved in cultural activities? \* Community Crosstabulation

|  |                       | Community |          |         |          | Total |
|--|-----------------------|-----------|----------|---------|----------|-------|
|  |                       | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.h In the next 5 years, do you expect young people will be involved in cultural activities like Naluqataq: more than they do now, about the same, or less than they do now? | More than they do now | 16        | 0        | 4       | 6        | 26    |
|  | About the same        | 17        | 5        | 3       | 6        | 31    |
|  | Less than they do now | 1         | 1        | 0       | 4        | 6     |
| Total  |                       | 34        | 6        | 7       | 16       | 63    |

### E1h\_txt Why future youth involvement in cultural activities? \* Community Crosstabulation

|  |  | Community |          |         |          | Total |
|--|--|-----------|----------|---------|----------|-------|
|  |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1h_txt Why future youth involvement in cultural activities? | <b>No additional comments offered</b>  | 25        | 4        | 6       | 20       | 55    |
|  | (Eskimo) dancing will increase.  | 0         | 0        | 0       | 1        | 1     |
|  | It is hard to say, but is probably increasing.   | 0         | 1        | 0       | 0        | 1     |
|  | Don't know.  | 0         | 0        | 0       | 1        | 1     |
|  | He says will be the same, or may increase, or whatever.  | 0         | 1        | 0       | 0        | 1     |
|  | Hope.  | 0         | 0        | 0       | 1        | 1     |
|  | Hope so-depends on families.   | 1         | 0        | 0       | 0        | 1     |
|  | Hopefully.   | 0         | 0        | 0       | 1        | 1     |
|  | Hopefully.   | 1         | 0        | 0       | 0        | 1     |
|  | Hopefully, but the movement of people out of the community will have a negative effect on learning traditional activities.   | 1         | 0        | 0       | 0        | 1     |
|  | More kids are getting more interested.   | 1         | 0        | 0       | 0        | 1     |
|  | More subsistence hunting with the downturn in the economy.   | 1         | 0        | 0       | 0        | 1     |
|  | Nalukatuk has changed: we would have a blanket toss for the kids in the morning, at certain times. It used to be that only the adults used to go 'on' the blanket. Kids can get hurt. Does not really participate anymore. | 1         | 0        | 0       | 0        | 1     |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | No discussion.  | 0         | 0        | 1       | 0        | 1     |
|       | People who moved out of Barrow or were adopted by outside families are moving back to discover who they are.  | 1         | 0        | 0       | 0        | 1     |
|       | Question in hard-copy questionnaire says '5-yrs' rather than 3-yrs.   | 1         | 0        | 0       | 0        | 1     |
|       | Respondent hopes so.  | 1         | 0        | 0       | 0        | 1     |
|       | The immersion program is helping teach tradition.   | 1         | 0        | 0       | 0        | 1     |
|       | The respondent hopes so.  | 1         | 0        | 0       | 0        | 1     |
|       | There is a youth group.   | 0         | 0        | 0       | 1        | 1     |
|       | There is more interest. They are beginning to see that Iñupiat is a way of life. The school immersion program has a lot to do with that.  | 1         | 0        | 0       | 0        | 1     |
|       | They just do not seem to be all that interested. It is like he told his nephew, the current captain of the whaling crew with which he is associated, "If you want to learn to hunt I [will] teach you, but you need to talk like I am, Iñupiaq." Some of the older people don't understand you when you speak English. Respondent says that this young whaling captain now speaks Iñupiaq all the time and is fluent, and that he is very proud of him. The respondent says "That is our purpose to live on, by using that tongue. Learn to speak English in school, not by whaling." The respondent says that after his nephew learned Iñupiaq that whenever the respondent went into the nephew's house the nephew would always ask in Iñupiaq "How are you, my man?" | 0         | 1        | 0       | 0        | 1     |
|       | Young people want to carry on traditions.   | 1         | 0        | 0       | 0        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |



**Crosstabs: Thoughts of Off-Shore Oil & Gas Development (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.i In the next 5 years, do you think offshore oil and gas development in the Beaufort Sea or Bering Straits is good, equally good and bad, or bad? * Community | 67    | 85.9%   | 11      | 14.1%   | 78    | 100.0%  |
| E1i_txt Why opinion of off-shore oil and gas development? * Community   | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.i What do you think of off-shore oil and gas development? \* Community Crosstabulation**

|   |                      | Community |          |         |          | Total |
|---|----------------------|-----------|----------|---------|----------|-------|
|   |                      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.i In the next 5 years, do you think offshore oil and gas development in the Beaufort Sea or Bering Straits is good, equally good and bad, or bad? | Good                 | 1         | 0        | 0       | 2        | 3     |
|   | Equally good and bad | 8         | 1        | 0       | 15       | 24    |
|   | Bad                  | 22        | 6        | 7       | 5        | 40    |
| Total   |                      | 31        | 7        | 7       | 22       | 67    |

**E1i\_txt Why opinion of off-shore oil and gas development? \* Community Crosstabulation**

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1i_txt Why opinion of off-shore oil and gas development? |  | 17        | 6        | 5       | 9        | 37    |
|   | Bad -- current technology is incapable of handling an oil spill. Good -- brought in industry, infrastructure, taxes.           | 1         | 0        | 0       | 0        | 1     |
|   | Bad -- noise from seismic activities has a negative effect on the migration of wildlife. Good -- provides job opportunities.   | 1         | 0        | 0       | 0        | 1     |
|   | Bad - subsistence, spills. Good - Honda, gas - that is where we have our food.   | 0         | 0        | 0       | 1        | 1     |
|   | Effects on whaling. Possible oil spill effects on wildlife. It is our garden out there.  | 1         | 0        | 0       | 0        | 1     |
|   | Environmental effects on the bowhead whale.  | 1         | 0        | 0       | 0        | 1     |
|   | Especially during winter ice conditions.   | 1         | 0        | 0       | 0        | 1     |
|   | Get some oil.  | 0         | 0        | 0       | 1        | 1     |
|   | Good -- money-wise, provide jobs and income. Bad -- villagers have been long-opposed because it infringes on migration routes. | 1         | 0        | 0       | 0        | 1     |

|  | Community |          |         |          | Total |
|--|-----------|----------|---------|----------|-------|
|  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| Good -- new equipment is being used; Bad -- this equipment is untested.  | 1         | 0        | 0       | 0        | 1     |
| Good for economy. If they use St. Lawrence Island as a staging area, we'd get royalties. There are miles that are owned by the Island. If there was cheap natural gas, that would be good. Bad because it will drive all the marine mammals out.                       | 0         | 0        | 0       | 1        | 1     |
| He thinks that oil and gas have helped the NSB and Kaktovik. But he says he is altogether against drilling out there in the ocean.   | 0         | 1        | 0       | 0        | 1     |
| Ice conditions are different offshore. Mother nature is unpredictable. No technology can stop the weather and ice movement.  | 1         | 0        | 0       | 0        | 1     |
| If it is on land it would be good, but in the ocean it is bad. We are right smack in the middle of migration.  | 0         | 0        | 0       | 1        | 1     |
| If there is a spill, it will affect the mammals, maybe kill them all. The whales might bypass the island and we'll never see them again. When there are noise activities, the mammals will stay away. The seals and other mammals will go somewhere where it is quiet. | 0         | 0        | 0       | 1        | 1     |
| If there was an oil spill, there will be an impact on subsistence, no clean up ability.  | 1         | 0        | 0       | 0        | 1     |
| Income for the village, impact subsistence hunting.  | 0         | 0        | 0       | 1        | 1     |
| Interferes with whale migration paths.   | 1         | 0        | 0       | 0        | 1     |
| It is safer on the East Side (of Barrow).  | 1         | 0        | 0       | 0        | 1     |
| It's getting oil.  | 0         | 0        | 0       | 1        | 1     |
| It's going to make more of our marine mammal migrate in different ways.  | 0         | 0        | 0       | 1        | 1     |
| Local residents have long opposed this development because of its environmental effects.   | 1         | 0        | 0       | 0        | 1     |
| Might affect migration of sea mammals.   | 0         | 0        | 0       | 1        | 1     |
| Migration could affect our food chain but could help financially also. If it affects our hunting, that is the big question mark.   | 0         | 0        | 0       | 2        | 2     |
| Need gas for motor to go hunting, but too much noise, spill would be a disaster.   | 0         | 0        | 0       | 1        | 1     |
| No confidence in the ability of industry to clean up; social and environmental costs.  | 0         | 0        | 0       | 1        | 1     |

|       |   | Community |          |         |          | Total |
|-------|---|-----------|----------|---------|----------|-------|
|       |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | No discussion [and appears to consider this such an obvious conclusion that it needs no explanation].   | 0         | 0        | 1       | 0        | 1     |
|       | No explanation, only a reaffirmation that development "has been bad for us all right."  | 0         | 0        | 1       | 0        | 1     |
|       | Oil rigs create a lot of noise. There have been impact studies which point to migration being diverted further out, away from the shore. We would have to go out further to harvest bowhead whales and in doing so, are risking our lives to hunt the whale. Going out further creates a greater risk because you are in small open boats in ever-changing weather. There is enough land area to explore in, why are they turning to the ocean? | 1         | 0        | 0       | 0        | 1     |
|       | See some money, modern equipment requires money - carving won't put us onto a millionaires list.  | 0         | 0        | 0       | 1        | 1     |
|       | Seismic activity and other noise pollution has had a negative effect on subsistence resources.  | 1         | 0        | 0       | 0        | 1     |
|       | The Borough does not gain much, and subsistence resources are displaced (which could place hunters in dangerous situations, e.g., going further offshore to hunt whales).   | 1         | 0        | 0       | 0        | 1     |
|       | The ocean is the only thing left. It is our garden.   | 1         | 0        | 0       | 0        | 1     |
|       | The older folks are more effected than the younger. Some people that depend on subsistence are more vulnerable. The younger folks are getting jobs with the oil industry. We need a stipulation to provide job opportunities, protect rivers, lakes, and report spills.   | 1         | 0        | 0       | 0        | 1     |
|       | They have not demonstrated any ability to prevent or clean up accidental discharges.  | 1         | 0        | 0       | 0        | 1     |
|       | They should drill the land first. Don't want to disturb sea life.   | 1         | 0        | 0       | 0        | 1     |
|       | Very bad. That's our garden. That's our food.   | 1         | 0        | 0       | 0        | 1     |
|       | We have strong currents, GPS showed we were going 7 mph.  | 0         | 0        | 0       | 1        | 1     |
|       | Whaling crews have to go further out during the fall because of the disturbance -- more than 20 miles.  | 1         | 0        | 0       | 0        | 1     |
|       | Will hurt migration. Sooner or later the wells will go bone dry.  | 0         | 0        | 0       | 1        | 1     |
| Total |   | 38        | 7        | 7       | 25       | 77    |

**Crosstabs: Community's Influence over Onshore Development (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.j In the last 5 years, do you think people in (community) have the capability to influence onshore oil and gas development: yes, no opinion, or no? * Community | 68    | 87.2%   | 10      | 12.8%   | 78    | 100.0%  |
| E1j_txt Why influence on on-shore oil and gas development? * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.j Do you think people in the community have the ability to influence onshore development? \* Community Crosstabulation**

|   |            | Community |          |         |          | Total |
|---|------------|-----------|----------|---------|----------|-------|
|   |            | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.j In the last 5 years, do you think people in (community) have the capability to influence onshore oil and gas development: yes, no opinion, or no? | Yes        | 19        | 7        | 4       | 9        | 39    |
|   | No opinion | 5         | 0        | 1       | 13       | 19    |
|   | No         | 6         | 0        | 2       | 2        | 10    |
| Total   |            | 30        | 7        | 7       | 24       | 68    |

**E1j\_txt Why influence on onshore oil and gas development? \* Community Crosstabulation**

|   |  | Community |          |         |          | Total |
|---|--|-----------|----------|---------|----------|-------|
|   |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1j_txt Why influence on onshore oil and gas development? | <b>No additional comments offered</b>  | 26        | 5        | 4       | 24       | 59    |
|   | "They [oil companies, agencies] do always listen but need to work together [with Kaktovik people more]."   | 0         | 1        | 0       | 0        | 1     |
|   | Barrow is a big ball player because it does both Fall and Spring whaling.  | 1         | 0        | 0       | 0        | 1     |
|   | By being vocal and by strengthening our tribal government and tribal rights. In the past nobody has been representing us in the right way -- the ASRC says yes to all development. | 1         | 0        | 0       | 0        | 1     |
|   | For example, they operate only after the ground is frozen to minimize damage, and they must be out of the area by the thaw.  | 1         | 0        | 0       | 0        | 1     |
|   | If we get the individuals in place - onshore vs. offshore.   | 1         | 0        | 0       | 0        | 1     |
|   | Oil companies negotiate with BLM and other Federal agencies, not with the people in the area.  | 1         | 0        | 0       | 0        | 1     |
|   | Ownership of land here is ours - surface and subsurface.   | 0         | 0        | 0       | 1        | 1     |
|   | Respondent said "We like to think so."   | 0         | 1        | 0       | 0        | 1     |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Respondent says that NQT affected by both onshore and offshore development. As soon as the oil companies get their contracts they stop listening to the locals -- before that they talk nicely to the locals.   | 0         | 0        | 1       | 0        | 1     |
|  | Respondent thinks that locals and the oil companies can have good communication and can have strong words with each other. However, the oil companies still go where they want to go. Development is better confined inland, where there is better equipment and technology to clean up spills. Spills are too hard to clean up offshore, and cannot really be contained in the ocean.  | 0         | 0        | 1       | 0        | 1     |
|  | Same explanation for E1j and E1k -- Locals (and Iñupiaq) have no influence at all on the oil industry. There is a lot of local opposition to oil development and the Elders keep saying "no" BUT oil development keeps on coming. He asks why the village corporation [Kuukpik] should be involved with the oil industry in the first place. He says that we know that global warming is going on. He claims that the only local people who benefit from oil development is the Kuukpik Corporation (village corporation). The shareholders are getting hardly anything -- the dividend of \$1500.00 is only pennies compared to the promises made and broken by the Kuukpik and ASRC Corporations [Native Corporations involved with ConocoPhillips in the Alpine development because of their ownership of some surface and subsurface rights in the area]. He concludes by stating that the shareholders are getting the short end of the stick. | 0         | 0        | 1       | 0        | 1     |
|  | They just go ahead and do it.   | 1         | 0        | 0       | 0        | 1     |
|  | To a degree, we have input. It depends who you are talking to.  | 1         | 0        | 0       | 0        | 1     |
|  | Very minimal influence because Washington bureaucrats and State management agencies, legislature and governor have more influence. As a result of poor communication villagers are at a disadvantage and must continually try to obtain information.  | 1         | 0        | 0       | 0        | 1     |

|              |   | Community |          |          |           | Total     |
|--------------|---|-----------|----------|----------|-----------|-----------|
|              |   | Barrow    | Kaktovik | Nuiqsut  | Savoonga  |           |
|              | Villagers have long expressed a preference for on-shore development; the companies have become more adaptable and addressed village concerns such as reducing impacts on caribou migration. | 1         | 0        | 0        | 0         | 1         |
|              | We have been trying to keep it on-shore.  | 1         | 0        | 0        | 0         | 1         |
|              | We keep getting walked over by industry and MMS.  | 1         | 0        | 0        | 0         | 1         |
|              | Yes and No. It depends on how the community can convince oil companies that it is not safe.   | 1         | 0        | 0        | 0         | 1         |
| <b>Total</b> |   | <b>38</b> | <b>7</b> | <b>7</b> | <b>25</b> | <b>77</b> |

**Crosstabs: Community Influence over Offshore Development (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.k Do you think people in (community) have the capability to influence off shore development: yes, no opinion, no? * Community | 64    | 82.1%   | 14      | 17.9%   | 78    | 100.0%  |
| E1k_txt Why influence off-shore oil and gas development? * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.k Do you think people in the community have the ability to influence off-shore development? \* Community Crosstabulation**

|   |            | Community |          |         |          | Total |
|---|------------|-----------|----------|---------|----------|-------|
|   |            | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.k Do you think people in (community) have the capability to influence off shore development: yes, no opinion, no? | Yes        | 20        | 3        | 2       | 10       | 35    |
|   | No opinion | 3         | 2        | 1       | 5        | 11    |
|   | No         | 8         | 1        | 3       | 6        | 18    |
| Total   |            | 31        | 6        | 6       | 21       | 64    |

**E1k\_txt Why influence offshore oil and gas development? \* Community Crosstabulation**

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E1k_txt Why influence off-shore oil and gas development? | <b>No additional comments offered</b>   | 21        | 5        | 4       | 23       | 53    |
|  | Barrow is a big ball player because it does both Fall and Spring whaling.   | 1         | 0        | 0       | 0        | 1     |
|  | Can influence by using offshore borough regulations and tribal sovereignty rights.  | 1         | 0        | 0       | 0        | 1     |
|  | Conditions have been placed on offshore development (e.g., when they can operate). They understand pretty well what we are doing out there. There is better communication with industry. They inform us of their activities through public hearings, etc. | 1         | 0        | 0       | 0        | 1     |
|  | Did not want to pick one of the choices. He said that they (the city of Kaktovik and the Native Village of Kaktovik) will try and influence such development.   | 0         | 1        | 0       | 0        | 1     |
|  | If something happens they will have a lot to say.   | 1         | 0        | 0       | 0        | 1     |

|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | Is a "Yes, but ..." answer. Says is like their whitefish, which has been rerouted by causeways. The oil companies have to talk to the locals and hear their input of saying why, but then "there is always a why" of why the oil company's idea of doing things is best. | 0         | 0        | 1       | 0        | 1     |
|       | Kaktovik residents are really against offshore development, but he says that their concerns are listened to.   | 0         | 1        | 0       | 0        | 1     |
|       | Maybe.   | 1         | 0        | 0       | 0        | 1     |
|       | Not from what I've seen. They just go through the motions of cooperating with us.  | 1         | 0        | 0       | 0        | 1     |
|       | Oil spill will be a big problem.   | 0         | 0        | 0       | 1        | 1     |
|       | Our municipal government speaks for the people; the type of mayors that have been selected are whaling captains, the elected officials.  | 1         | 0        | 0       | 0        | 1     |
|       | Respondent says offshore even worse than onshore.  | 0         | 0        | 1       | 0        | 1     |
|       | Same.  | 1         | 0        | 0       | 0        | 1     |
|       | See answer for E1j.  | 0         | 0        | 1       | 0        | 1     |
|       | The people have expressed opposition in meetings.  | 1         | 0        | 0       | 0        | 1     |
|       | The younger people could make a stand.   | 1         | 0        | 0       | 0        | 1     |
|       | They are doing it anyway.  | 1         | 0        | 0       | 0        | 1     |
|       | They listen to local residents.  | 1         | 0        | 0       | 0        | 1     |
|       | Through their political power.   | 1         | 0        | 0       | 0        | 1     |
|       | Very strong.   | 1         | 0        | 0       | 0        | 1     |
|       | Villagers have influence through the AEWG and Marine Mammal Protection Act. An example of this influence is the "good neighbor" policy with BP.  | 1         | 0        | 0       | 0        | 1     |
|       | Walrus hunting.  | 0         | 0        | 0       | 1        | 1     |
|       | We have no control - coastal zone management didn't help much.   | 1         | 0        | 0       | 0        | 1     |
|       | We try to make them listen but our words are sometimes twisted.  | 1         | 0        | 0       | 0        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |



**Crosstabs: Offshore Development Compatible with Protection of Environment (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| E.1.1 It is possible to have oil development in offshore coastal areas and at the same time provide adequate safeguards to protect the environment and important cultural activities (agree, no opinion, disagree). * Community | 69    | 88.5%   | 9       | 11.5%   | 78    | 100.0%  |
| E11_txt Why opinion on offshore oil drilling and ability to protect the environment and cultural activities? * Community  | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

**E.1.1 It is possible to have oil development in offshore coastal areas and protect the environment. \* Community Crosstabulation**

|  |            | Community |          |         |          | Total |
|--|------------|-----------|----------|---------|----------|-------|
|  |            | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E.1.1 It is possible to have oil development in offshore coastal areas and at the same time provide adequate safeguards to protect the environment and important cultural activities (agree, no opinion, disagree) | Agree      | 11        | 0        | 0       | 9        | 20    |
|  | No Opinion | 2         | 1        | 1       | 5        | 9     |
|  | Disagree   | 21        | 6        | 6       | 7        | 40    |
| Total  |            | 34        | 7        | 7       | 21       | 69    |

**E11\_txt Why opinion on offshore oil drilling and ability to protect the environment? \* Community Crosstabulation**

|                               |  | Community |          |         |          | Total |
|-------------------------------|--|-----------|----------|---------|----------|-------|
|                               |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| E11_txt                       | <b>No additional comments</b>  | 17        | 4        | 4       | 14       | 39    |
| Explanation of E.1.1 response | It can be done safely  | 1         | 0        | 0       | 0        | 1     |
|                               | “When the Arctic Endeavor went out, the person who wrote the protocol had never seen the Arctic.”  | 1         | 0        | 0       | 0        | 1     |
|                               | 3 or 4 years ago a supposedly “unsinkable” gravel dredge boat went aground and sank near Barrow when a storm pulled its anchor loose.  | 1         | 0        | 0       | 0        | 1     |
|                               | All the engineers come out here, drill and test a hole, think they know our island. I tell them - you only know the hole, you don’t know the entire island, the currents, etc. Currents will carry big chunks of ice. They are almost as high as the cliffs. It will disturb fishing, there is a quota now around the island; the boundary may be 3-5 miles out (set by SNC). We have a real strong current. It gets up to 10 miles/hr. If they try and drill in the winter, there will be problems. | 0         | 0        | 0       | 1        | 1     |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | Conoco says they are trying their best to minimize impacts on the subsistence way of life but their activity is changing wildlife behavior.   | 1         | 0        | 0       | 0        | 1     |
|  | Depends on where they are drilling -<br>- near shore may be okay but further offshore is not possible.  | 0         | 0        | 1       | 0        | 1     |
|  | Disaster. Ice is getting thinner and thinner and the snow is melting faster and faster. The current, this changes our harvesting for walrus, oogruk, bowhead.   | 0         | 0        | 0       | 1        | 1     |
|  | Good because of money. Bad because it will be a disturbance of marine mammals. The migration route will be different.   | 0         | 0        | 0       | 1        | 1     |
|  | Has not proven to be safe in changing currents, ice conditions, weather, etc.   | 1         | 0        | 0       | 0        | 1     |
|  | He said that he had no opinion, but then that he really opposes drilling in the ocean. He says his view is the same as that of the other whaling captains. If there is an accident like an oil spill or a source of noise in the fall time it will keep the whales away so that they will not be able to hunt. He gave an example of the one year when there was a spill drilling nearby and they did not even see any whales that year, let alone catch one. | 0         | 1        | 0       | 0        | 1     |
|  | I don't feel comfortable with going against nature's work. They can't win.  | 1         | 0        | 0       | 0        | 1     |
|  | I don't want it because of possible negative effects.   | 1         | 0        | 0       | 0        | 1     |
|  | If an oil spill occurred in winter it would be harder to get people to stay here and clean it up.   | 1         | 0        | 0       | 0        | 1     |
|  | If OCS is during winter months, solid foundation to work from. All animals have migrated south. The spill would be solid in the winter months. If there is a massive spill above the ice, there will be a problem.  | 1         | 0        | 0       | 0        | 1     |
|  | If the ice conditions were young, then it might be OK; the old ice is a lot thicker, the young ice is 5-6, 10-12. Different chemicals can actually get trapped in the ice, it is hard to say which way the current is actually flowing.   | 1         | 0        | 0       | 0        | 1     |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | If they drill they should have an insurance bond or guarantee -- not for cleanup but for compensation [this sounds very similar to the George Ahmaogak idea]. Respondent initially wanted to agree with the statement but his wife disagreed strongly, they discussed it, and she convinced him to change his answer. | 0         | 1        | 0       | 0        | 1     |
|  | If they have respect for our food, do it very nicely, not one drop of oil in the ocean, then I agree a little. If they give 1/4 to Savoonga and 3/4 to them. We must have caution in drilling and avoid polluting; otherwise it will be strongly voiced.  | 0         | 0        | 0       | 1        | 1     |
|  | It is going to affect our subsistence activities. It'll move those animals further out.   | 0         | 0        | 0       | 1        | 1     |
|  | It will greatly disturb marine and sea life.  | 1         | 0        | 0       | 0        | 1     |
|  | It's not possible. We have a very strong current, dangerous ice conditions. The scientists don't even understand it. The ice conditions are not suitable for any drilling at all.   | 0         | 0        | 0       | 1        | 1     |
|  | Kind of agree -- the cooperation is there but they must listen to us. Each year there is a meeting that provides cultural orientation to new industry workers.  | 1         | 0        | 0       | 0        | 1     |
|  | No discussion, as a logical conclusion from what he has already said. NOTE: question on the version of the survey I used combined questions E1l and E1m: "It is possible ... to protect the environment and important cultural activities."   | 0         | 0        | 1       | 0        | 1     |
|  | No way. They do not have the technology. An experiment in Canada showed that on stable ice, ice absorbs oil. There is almost no recovery. Shore ice used to be 10-ft thick. Now it is much thinner and less stable. If something goes wrong the kids here could not survive.  | 1         | 0        | 0       | 0        | 1     |
|  | Noise (even if the technology could avoid spills) will still be a problem.  | 0         | 0        | 0       | 1        | 1     |

|  |   | Community |          |         |          | Total |
|--|---|-----------|----------|---------|----------|-------|
|  |   | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|  | October is a month of big waves. It is dangerous to hunt whales in that month, and during the Barrow WC meeting they object, but they are told to go whaling in October, when some whaling captain would rather go in September. It is always written already - what they are told by the younger whalers or AEWG.  | 1         | 0        | 0       | 0        | 1     |
|  | Oil drilling here might be like Exxon Valdez; it would be disastrous to have a spill. We have stronger currents out here. The younger generation is more interested in whaling now.   | 0         | 0        | 0       | 1        | 1     |
|  | Only on land.   | 0         | 0        | 0       | 1        | 1     |
|  | Respondent said that when "they" (oil companies and their subcontractors) do go offshore, like when they do seismic or other activities in the winter time, when the ice is frozen, he and other Kaktovik residents have seen evidence that they have dumped or left stuff behind on the ice. When the ice breaks up this stuff then goes into the ocean and pollutes it. He does not like them leaving stuff on the ice like that. He also said that the ice is really strong, the way it moves, and thinks that any offshore oil development is likely to be subject to forces from the ice that it cannot be built to withstand. | 0         | 1        | 0       | 0        | 1     |
|  | Savoonga used to have a lot more going on for the younger kids. It used to be 'cleaner'. Some of the women don't know how to cut up meat, people can't speak the language. But for whaling. We have workshops, learn how to harpoon the whale, where to strike.   | 0         | 0        | 0       | 1        | 1     |
|  | The oil companies will come and meet with us nicely, but the people who work out in the oil fields do not care. The oil workers are different from those who work for the oil companies in their offices. NQT people can see what happens with the onshore developments, and can keep some sort of track of them and hold them accountable. However, no one knows what goes on offshore. The oil companies quit having a Native "watchman" position for offshore facilities. Respondent says that they used to have such positions (with local hire from NQT) but no longer do so.  | 0         | 0        | 1       | 0        | 1     |

|       |  | Community |          |         |          | Total |
|-------|--|-----------|----------|---------|----------|-------|
|       |  | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
|       | The technology for safeguards has not been proven -- so far it has been a failure.   | 1         | 0        | 0       | 0        | 1     |
|       | There is no technology on the ice, there is a bad ice condition and no technology to clean up. If there is even a ship, they won't make it out there. There is nothing to safeguard offshore impacts.  | 1         | 0        | 0       | 0        | 1     |
|       | They don't have the technology to clean up oil spills. They have not provided it to me, nor to any of us. If they developed a technology, they'd have to show me. Even with that, I'd believe half of what they say. If I saw it and know it works, then I wouldn't have a real problem. The dollar motive with the oil companies is mainly the concern - oil spill. Seismic activity scares whales away but I don't think the development will. Additional helicopter noise, exploration, seismic, ships, these will scare them, but ongoing development won't. | 1         | 0        | 0       | 0        | 1     |
|       | They don't know the ice conditions and currents in the Arctic Ocean.   | 1         | 0        | 0       | 0        | 1     |
|       | They have not shown us they can do it. If they can prove it scientifically under natural conditions, maybe.  | 1         | 0        | 0       | 0        | 1     |
|       | They haven't demonstrated an ability to control an oil spill during winter and ice breakup.  | 1         | 0        | 0       | 0        | 1     |
|       | We go out more than 70 miles in the spring time; it will affect our hunting rights for marine mammals and the migration.   | 0         | 0        | 0       | 1        | 1     |
|       | Worked in Prudhoe Bay - the oil co's have the capability to clean small spills, but OCS activity is another thing.   | 1         | 0        | 0       | 0        | 1     |
| Total |  | 38        | 7        | 7       | 25       | 77    |

## **PART F: HEALTH OF WHALING CAPTAINS NOW**



## PART F: HEALTH OF WHALING CAPTAINS NOW<sup>3</sup>

### Crosstabs: Respondent's General Health (WC) - All Communities

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| F.1 HH Member #1 Is your general health excellent, good, fair, or poor?* Community | 69    | 88.5%   | 9       | 11.5%   | 78    | 100.0%  |

#### F.1 HH Member #1 How is your general health? \* Community Crosstabulation

| General Health   |           | Community |          |         |          | Total |
|--|-----------|-----------|----------|---------|----------|-------|
|  |           | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| F.1 HH Member #1: Is your general health excellent, good, fair, or poor? | Excellent | 11        | 0        | 0       | 3        | 14    |
|  | Good      | 16        | 4        | 5       | 13       | 38    |
|  | Fair      | 3         | 2        | 2       | 6        | 13    |
|  | Poor      | 3         | 1        | 0       | 0        | 4     |
| Total  |           | 33        | 7        | 7       | 22       | 69    |

### Crosstabs: Days of Ill Health last Month (WC) - All Communities

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| F.2 HH Member #1 How many days in the last month was your physical health not good because of injury or physical illness? * Community | 65    | 83.3%   | 13      | 16.7%   | 78    | 100.0%  |

#### F.2 HH Member #1 How many days in the last month was your physical health not good? \* Community Crosstabulation

| Number of Days  |    | Community |          |         |          | Total |
|---|----|-----------|----------|---------|----------|-------|
|   |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| F.2 HH Member #1 How many days in the last month was your physical health not good because of injury or physical illness? | 0  | 26        | 6        | 4       | 18       | 54    |
|   | 2  | 1         | 0        | 1       | 1        | 3     |
|   | 3  | 3         | 0        | 0       | 0        | 3     |
|   | 7  | 0         | 0        | 1       | 1        | 2     |
|   | 11 | 0         | 1        | 0       | 0        | 1     |
|   | 14 | 0         | 0        | 0       | 1        | 1     |
| 17  | 0  | 0         | 1        | 0       | 1        |       |
| Total   |    | 30        | 7        | 7       | 21       | 65    |

<sup>3</sup> Questions in Section F were administered for the sake of comparability of results.



**Crosstabs: Days Not Able to do Usual Activities? (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| F.3 HH Member #1 During the last month how many days did poor physical health keep you from doing usual activities such as self-care, work, hunting, fishing, recreation? * Community | 68    | 87.2%   | 10      | 12.8%   | 78    | 100.0%  |

**F.3 HH Member #1 During the last month how many days kept from doing usual activities? \* Community Crosstabulation**

| Number of days           |    | Community |          |         |          | Total |
|--------------------------|----|-----------|----------|---------|----------|-------|
|                          |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| F.3 HH Member #1         | 0  | 23        | 6        | 5       | 19       | 53    |
| During the last month    | 2  | 3         | 0        | 0       | 2        | 5     |
| how many days did poor   | 3  | 2         | 0        | 0       | 0        | 2     |
| physical health keep you | 4  | 1         | 0        | 0       | 1        | 2     |
| from doing usual         | 7  | 1         | 0        | 1       | 0        | 2     |
| activities such as self- | 11 | 0         | 1        | 0       | 0        | 1     |
| care, work, hunting,     | 17 | 0         | 0        | 1       | 0        | 1     |
| fishing, recreation?     | 30 | 2         | 0        | 0       | 0        | 2     |
| Total                    |    | 32        | 7        | 7       | 22       | 68    |

**Crosstabs: Days of Poor Rest & Sleep (WC) - All Communities**

|   | Cases |         |         |         |       |         |
|---|-------|---------|---------|---------|-------|---------|
|   | Valid |         | Missing |         | Total |         |
|   | N     | Percent | N       | Percent | N     | Percent |
| F.4 HH Member #1 During the last month how many days did you not get enough rest and sleep? * Community | 58    | 74.4%   | 20      | 25.6%   | 78    | 100.0%  |

**F.4 HH Member #1 During the last month how many days of poor rest and sleep? \* Community Crosstabulation**

| Number of Days        |    | Community |          |         |          | Total |
|-----------------------|----|-----------|----------|---------|----------|-------|
|                       |    | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| F.4 HH Member #1      | 0  | 14        | 5        | 5       | 10       | 34    |
| During the last month | 2  | 1         | 1        | 0       | 0        | 2     |
| how many days did     | 3  | 2         | 0        | 0       | 1        | 3     |
| you not get           | 4  | 1         | 0        | 1       | 0        | 2     |
| enough rest           | 5  | 1         | 0        | 0       | 1        | 2     |
| and sleep?            | 7  | 1         | 0        | 0       | 0        | 1     |
|                       | 10 | 1         | 0        | 0       | 0        | 1     |
|                       | 14 | 0         | 0        | 0       | 1        | 1     |
|                       | 15 | 0         | 0        | 1       | 1        | 2     |
|                       | 20 | 0         | 0        | 0       | 2        | 2     |
| Total                 | 30 | 4         | 0        | 0       | 4        | 8     |
| Total                 |    | 25        | 6        | 7       | 20       | 58    |

**Crosstabs: Individuals in HH Experiencing Back pain (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| F.5 Do you have back problems, or does anyone in your household experience back pain on a regular basis? * Community | 71    | 91.0%   | 7       | 9.0%    | 78    | 100.0%  |

**F.5 Has anyone in your household experienced back pain on a regular basis \* Community Crosstabulation**

|  |            | Community |          |         |          | Total |
|--|------------|-----------|----------|---------|----------|-------|
|  |            | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| F.5 Do you have back problems, or does anyone in your household experience back pain on a regular basis? | Yes        | 18        | 2        | 4       | 6        | 30    |
|  | No         | 16        | 5        | 3       | 16       | 40    |
|  | Don't know | 0         | 0        | 0       | 1        | 1     |
| Total  |            | 34        | 7        | 7       | 23       | 71    |

**Crosstabs: Number of People Experiencing Back Pain (WC) - All Communities**

|  | Cases |         |         |         |       |         |
|--|-------|---------|---------|---------|-------|---------|
|  | Valid |         | Missing |         | Total |         |
|  | N     | Percent | N       | Percent | N     | Percent |
| F.5.a Number of people in household that experience back pain. * Community | 75    | 96.2%   | 3       | 3.8%    | 78    | 100.0%  |

**F.5.a Number of people in household that experience back pain. \* Community Crosstabulation**

|  |      | Community |          |         |          | Total |
|--|------|-----------|----------|---------|----------|-------|
|  |      | Barrow    | Kaktovik | Nuiqsut | Savoonga |       |
| F.5.a Number of people in household that experience back pain. | .00  | 18        | 7        | 7       | 18       | 50    |
|  | 1.00 | 16        | 0        | 0       | 6        | 22    |
|  | 2.00 | 1         | 0        | 0       | 1        | 2     |
|  | 3.00 | 1         | 0        | 0       | 0        | 1     |
| Total  |      | 36        | 7        | 7       | 25       | 75    |

### Crosstabs: Reasons for Back Pain (WC) - All Communities

|                                     | Cases |         |         |         |       |         |
|-------------------------------------|-------|---------|---------|---------|-------|---------|
|                                     | Valid |         | Missing |         | Total |         |
|                                     | N     | Percent | N       | Percent | N     | Percent |
| Reason for back pain<br>* Community | 77    | 98.7%   | 1       | 1.3%    | 78    | 100.0%  |

#### Reason for back pain \* Community Crosstabulation

|                        |  | Community |          |           |           | Total |
|------------------------|--|-----------|----------|-----------|-----------|-------|
|                        |  | Barrow    | Kaktovik | Nuiqsut   | Savoonga  |       |
| Reason for back pain   | <b>No additional comments offered</b>                  | 23        | 7        | 7         | 18        | 55    |
|                        | Arthritis.   | 2         | 0        | 0         | 0         | 2     |
|                        | Arthritis.   | 1         | 0        | 0         | 0         | 1     |
|                        | Broke ribs.  | 1         | 0        | 0         | 0         | 1     |
|                        | Broken fibroids.                                       | 0         | 0        | 0         | 1         | 1     |
|                        | Carried an outboard motor (50 hp) when young.          | 0         | 0        | 0         | 1         | 1     |
|                        | Deteriorated disk.                                     | 1         | 0        | 0         | 0         | 1     |
|                        | Digging (for artifacts).                               | 0         | 0        | 0         | 1         | 1     |
|                        | Fell and a chunk of ice fell on back.                  | 1         | 0        | 0         | 0         | 1     |
|                        | Injured when in high school.                           | 1         | 0        | 0         | 0         | 1     |
|                        | Injury and age.  | 1         | 0        | 0         | 0         | 1     |
|                        | Lifting heavy weight during subsistence activities.    | 1         | 0        | 0         | 0         | 1     |
|                        | Lost use of left leg, had a bone spur.                 | 1         | 0        | 0         | 0         | 1     |
|                        | Once you pull a muscle in your back, one swift motion. | 0         | 0        | 0         | 1         | 1     |
|                        | Overwork during subsistence activities, etc.           | 1         | 0        | 0         | 0         | 1     |
|                        | Run the motor - back strain (for boat) 8-10 hrs.       | 0         | 0        | 0         | 2         | 2     |
|                        | Spinal cord getting old.                               | 1         | 0        | 0         | 0         | 1     |
|                        | Strained it along the way - crashed a snow machine.    | 0         | 0        | 0         | 1         | 1     |
|                        | Strained back muscles.                                 | 1         | 0        | 0         | 0         | 1     |
|                        | Underwent chemotherapy a few years ago.                | 1         | 0        | 0         | 0         | 1     |
| Work-related accident. | 1  | 0         | 0        | 0         | 1         |       |
| <b>Total</b>           | <b>38</b>  | <b>7</b>  | <b>7</b> | <b>25</b> | <b>77</b> |       |