

Contents

<i>Addenda</i>	13
<i>Dedication</i>	15
<i>Acknowledgments</i>	17
<i>Suggested Citation</i>	19
Authors	19
Contributors	19
1 <i>Executive Summary</i>	21
1.1 Introduction	21
1.2 Data Summaries	22
2 <i>Leading Cancers</i>	27
2.1 Men and Women Combined	27
2.2 Men Only	52
2.3 Women Only	54
2.4 Percentages by Stage	56
2.5 Regional Comparisons	67
3 <i>Incidence by Cancer Site</i>	69
3.1 Men and Women Combined	69
3.2 Men Only	75
3.3 Women Only	79
4 <i>Incidence Trends by Cancer Site</i>	83
4.1 Men and Women Combined	83
4.2 Men Only	95
4.3 Women Only	106
5 <i>Cancer Mortality by Cause</i>	117
5.1 Men and Women Combined	117
5.2 Men Only	119
5.3 Women Only	121
6 <i>Cancer Mortality Trends by Cause</i>	123
6.1 Men and Women Combined	123

6.2	Men Only	130
6.3	Women Only	137
7	<i>Regional Information</i>	145
7.1	Trends	145
7.2	Fifteen-year Incidence	157
A	<i>Methods</i>	169
A.1	Equations	170
A.2	Additional Considerations	171
A.3	Software Resources	172
B	<i>Tribal Health Regions</i>	175
C	<i>SEER Site Recode Definitions</i>	179
	<i>References</i>	183

List of Tables

2.1	Incidence, top 10 sites, men and women, 2014–2018.	28
2.2	Incidence by age, all sites, men and women, 2014–2018.	29
2.3	Incidence by age, breast (women), women, 2014–2018.	30
2.4	Incidence by age, colon and rectum, men and women, 2014–2018.	31
2.5	Incidence by age, lung and bronchus, men and women, 2014–2018.	32
2.6	Incidence by age, prostate (men), men, 2014–2018.	33
2.7	Incidence by age, kidney and renal pelvis, men and women, 2014–2018.	34
2.8	Incidence by age, pancreas, men and women, 2014–2018.	35
2.9	Incidence by age, stomach, men and women, 2014–2018.	36
2.10	Incidence by age, thyroid, men and women, 2014–2018.	37
2.11	Incidence by age, urinary bladder, men and women, 2014–2018.	38
2.12	Incidence by age, corpus uteri (women), women, 2014–2018.	39
2.13	Incidence, top 10 sites, men and women, 1969–2018.	40
2.14	Incidence by age, all sites, men and women, 1969–2018.	41
2.15	Incidence by age, breast (women), women, 1969–2018.	42
2.16	Incidence by age, colon and rectum, men and women, 1969–2018.	43
2.17	Incidence by age, lung and bronchus, men and women, 1969–2018.	44
2.18	Incidence by age, prostate (men), men, 1969–2018.	45
2.19	Incidence by age, kidney and renal pelvis, men and women, 1969–2018.	46
2.20	Incidence by age, stomach, men and women, 1969–2018.	47
2.21	Incidence by age, pancreas, men and women, 1969–2018.	48
2.22	Incidence by age, cervix uteri (women), women, 1969–2018.	49
2.23	Incidence by age, corpus uteri (women), women, 1969–2018.	50
2.24	Incidence by age, urinary bladder, men and women, 1969–2018.	51
2.25	Incidence, top 10 sites, men, 2014–2018.	52
2.26	Incidence, top 10 sites, men, 1969–2018.	53
2.27	Incidence, top 10 sites, women, 2014–2018.	54
2.28	Incidence, top 10 sites, women, 1969–2018.	55
2.29	Stage at diagnosis, all sites, men and women, 2014–2018.	56

2.30	Stage at diagnosis, breast (women), women, 2014–2018.	57
2.31	Stage at diagnosis, colon and rectum, men and women, 2014–2018.	58
2.32	Stage at diagnosis, lung and bronchus, men and women, 2014–2018.	59
2.33	Stage at diagnosis, prostate (men), men, 2014–2018.	60
2.34	Stage at diagnosis, kidney and renal pelvis, men and women, 2014–2018.	61
2.35	Stage at diagnosis, pancreas, men and women, 2014–2018.	62
2.36	Stage at diagnosis, stomach, men and women, 2014–2018.	63
2.37	Stage at diagnosis, thyroid, men and women, 2014–2018.	64
2.38	Stage at diagnosis, urinary bladder, men and women, 2014–2018. . . .	65
2.39	Stage at diagnosis, corpus uteri (women), women, 2014–2018.	66
3.1	Incidence by site, men and women, 2014–2018.	69
3.2	Incidence by site, men and women, 1969–2018.	72
3.3	Incidence by site, men, 2014–2018.	75
3.4	Incidence by site, men, 1969–2018.	77
3.5	Incidence by site, women, 2014–2018.	79
3.6	Incidence by site, women, 1969–2018.	81
4.1	Incidence trends, all sites, men and women, 1969–2018.	83
4.2	Incidence trends, breast (women), men and women, 1969–2018. . . .	85
4.3	Incidence trends, colon and rectum, men and women, 1969–2018. . .	86
4.4	Incidence trends, lung and bronchus, men and women, 1969–2018.	87
4.5	Incidence trends, prostate (men), men and women, 1969–2018. . . .	88
4.6	Incidence trends, kidney and renal pelvis, men and women, 1969–2018.	89
4.7	Incidence trends, stomach, men and women, 1969–2018.	90
4.8	Incidence trends, pancreas, men and women, 1969–2018.	91
4.9	Incidence trends, cervix uteri (women), men and women, 1969–2018.	92
4.10	Incidence trends, corpus uteri (women), men and women, 1969–2018.	93
4.11	Incidence trends, urinary bladder, men and women, 1969–2018. . . .	94
4.12	Incidence trends, all sites, men, 1969–2018.	95
4.13	Incidence trends, lung and bronchus, men, 1969–2018.	96
4.14	Incidence trends, colon and rectum, men, 1969–2018.	97
4.15	Incidence trends, prostate (men), men, 1969–2018.	98
4.16	Incidence trends, stomach, men, 1969–2018.	99
4.17	Incidence trends, kidney and renal pelvis, men, 1969–2018.	100
4.18	Incidence trends, urinary bladder, men, 1969–2018.	101
4.19	Incidence trends, pancreas, men, 1969–2018.	102

4.20	Incidence trends, liver, men, 1969–2018.	103
4.21	Incidence trends, esophagus, men, 1969–2018.	104
4.22	Incidence trends, nasopharynx, men, 1969–2018.	105
4.23	Incidence trends, all sites, women, 1969–2018.	106
4.24	Incidence trends, breast (women), women, 1969–2018.	107
4.25	Incidence trends, colon and rectum, women, 1969–2018.	108
4.26	Incidence trends, lung and bronchus, women, 1969–2018.	109
4.27	Incidence trends, kidney and renal pelvis, women, 1969–2018.	110
4.28	Incidence trends, cervix uteri (women), women, 1969–2018.	111
4.29	Incidence trends, pancreas, women, 1969–2018.	112
4.30	Incidence trends, stomach, women, 1969–2018.	113
4.31	Incidence trends, thyroid, women, 1969–2018.	114
4.32	Incidence trends, corpus uteri (women), women, 1969–2018.	115
4.33	Incidence trends, ovary (women), women, 1969–2018.	116
5.1	Mortality by cause, men and women, 2014–2018.	117
5.2	Mortality by cause, men and women, 1994–2018.	118
5.3	Mortality by cause, men, 2014–2018.	119
5.4	Mortality by cause, men, 1994–2018.	120
5.5	Mortality by cause, women, 2014–2018.	121
5.6	Mortality by cause, women, 1994–2018.	122
6.1	Mortality trends, all malignant cancers, men and women, 1994–2018.	124
6.2	Mortality trends, lung and bronchus, men and women, 1994–2018.	125
6.3	Mortality trends, colon and rectum, men and women, 1994–2018.	126
6.4	Mortality trends, breast (women), women, 1994–2018.	127
6.5	Mortality trends, prostate (men), men, 1994–2018.	128
6.6	Mortality trends, stomach, men and women, 1994–2018.	129
6.7	Mortality trends, all malignant cancers, men and women, 1994–2018.	131
6.8	Mortality trends, lung and bronchus, men and women, 1994–2018.	132
6.9	Mortality trends, colon and rectum, men and women, 1994–2018.	133
6.10	Mortality trends, stomach, men and women, 1994–2018.	134
6.11	Mortality trends, prostate (men), men, 1994–2018.	135
6.12	Mortality trends, pancreas, men and women, 1994–2018.	136
6.13	Mortality trends, all malignant cancers, men and women, 1994–2018.	138
6.14	Mortality trends, lung and bronchus, men and women, 1994–2018.	139
6.15	Mortality trends, colon and rectum, men and women, 1994–2018.	140
6.16	Mortality trends, breast (women), women, 1994–2018.	141

6.17	Mortality trends, pancreas, men and women, 1994–2018.	142
6.18	Mortality trends, stomach, men and women, 1994–2018.	143
7.1	Incidence trends, all sites, Aleutians and Pribilofs region, 1994–2018.	145
7.2	Incidence trends, all sites, Anchorage and Mat-Su region, 1994–2018.	146
7.3	Incidence trends, all sites, Arctic Slope region, 1994–2018.	147
7.4	Incidence trends, all sites, Bristol Bay region, 1994–2018.	148
7.5	Incidence trends, all sites, Copper River and Prince William Sound region, 1994–2018.	149
7.6	Incidence trends, all sites, Interior region, 1994–2018.	150
7.7	Incidence trends, all sites, Kenai Peninsula region, 1994–2018.	151
7.8	Incidence trends, all sites, Kodiak Area region, 1994–2018.	152
7.9	Incidence trends, all sites, Northwest Arctic region, 1994–2018.	153
7.10	Incidence trends, all sites, Norton Sound region, 1994–2018.	154
7.11	Incidence trends, all sites, Southeast region, 1994–2018.	155
7.12	Incidence trends, all sites, Yukon-Kuskokwim region, 1994–2018.	156
7.13	Incidence, top 5 sites, Aleutians and Pribilofs region, men and women, 2004–2018.	157
7.14	Incidence, top 5 sites, Anchorage and Mat-Su region, men and women, 2004–2018.	158
7.15	Incidence, top 5 sites, Arctic Slope region, men and women, 2004–2018.	159
7.16	Incidence, top 5 sites, Bristol Bay region, men and women, 2004–2018.	160
7.17	Incidence, top 5 sites, Copper River and Prince William Sound region, men and women, 2004–2018.	161
7.18	Incidence, top 5 sites, Interior region, men and women, 2004–2018.	162
7.19	Incidence, top 5 sites, Kenai Peninsula region, men and women, 2004–2018.	163
7.20	Incidence, top 5 sites, Kodiak Area region, men and women, 2004–2018.	164
7.21	Incidence, top 5 sites, Northwest Arctic region, men and women, 2004–2018.	165
7.22	Incidence, top 5 sites, Norton Sound region, men and women, 2004–2018.	166
7.23	Incidence, top 5 sites, Southeast region, men and women, 2004–2018.	167
7.24	Incidence, top 5 sites, Yukon-Kuskokwim region, men and women, 2004–2018.	168
B.1	Tribal Health Region definitions.	176

8 THE 50-YEAR REPORT

C.1 Site recode ICD-O-3/WHO 2008 definition. 179

List of Figures

2.1	Incidence, top 10 sites, men and women, 2014–2018.	27
2.2	Incidence by age, all sites, men and women, 2014–2018.	29
2.3	Incidence by age, breast (women), women, 2014–2018.	30
2.4	Incidence by age, colon and rectum, men and women, 2014–2018.	31
2.5	Incidence by age, lung and bronchus, men and women, 2014–2018.	32
2.6	Incidence by age, prostate (men), men, 2014–2018.	33
2.7	Incidence by age, kidney and renal pelvis, men and women, 2014–2018.	34
2.8	Incidence by age, pancreas, men and women, 2014–2018.	35
2.9	Incidence by age, stomach, men and women, 2014–2018.	36
2.10	Incidence by age, thyroid, men and women, 2014–2018.	37
2.11	Incidence by age, urinary bladder, men and women, 2014–2018.	38
2.12	Incidence by age, corpus uteri (women), women, 2014–2018.	39
2.13	Incidence, top 10 sites, men and women, 1969–2018.	40
2.14	Incidence by age, all sites, men and women, 1969–2018.	41
2.15	Incidence by age, breast (women), women, 1969–2018.	42
2.16	Incidence by age, colon and rectum, men and women, 1969–2018.	43
2.17	Incidence by age, lung and bronchus, men and women, 1969–2018.	44
2.18	Incidence by age, prostate (men), men, 1969–2018.	45
2.19	Incidence by age, kidney and renal pelvis, men and women, 1969–2018.	46
2.20	Incidence by age, stomach, men and women, 1969–2018.	47
2.21	Incidence by age, pancreas, men and women, 1969–2018.	48
2.22	Incidence by age, cervix uteri (women), women, 1969–2018.	49
2.23	Incidence by age, corpus uteri (women), women, 1969–2018.	50
2.24	Incidence by age, urinary bladder, men and women, 1969–2018.	51
2.25	Incidence, top 10 sites, men, 2014–2018.	52
2.26	Incidence, top 10 sites, men, 1969–2018.	53
2.27	Incidence, top 10 sites, women, 2014–2018.	54
2.28	Incidence, top 10 sites, women, 1969–2018.	55
2.29	Stage at diagnosis, all sites, men and women, 2014–2018.	56

2.30	Stage at diagnosis, breast (women), women, 2014–2018.	57
2.31	Stage at diagnosis, colon and rectum, men and women, 2014–2018.	58
2.32	Stage at diagnosis, lung and bronchus, men and women, 2014–2018.	59
2.33	Stage at diagnosis, prostate (men), men, 2014–2018.	60
2.34	Stage at diagnosis, kidney and renal pelvis, men and women, 2014–2018.	61
2.35	Stage at diagnosis, pancreas, men and women, 2014–2018.	62
2.36	Stage at diagnosis, stomach, men and women, 2014–2018.	63
2.37	Stage at diagnosis, thyroid, men and women, 2014–2018.	64
2.38	Stage at diagnosis, urinary bladder, men and women, 2014–2018.	65
2.39	Stage at diagnosis, corpus uteri (women), women, 2014–2018.	66
2.40	Regional incidence, breast (women), women, 2014–2018.	67
2.41	Regional incidence, colon and rectum, men and women, 2014–2018.	67
2.42	Regional incidence, kidney and renal pelvis, men and women, 2014–2018.	68
2.43	Regional incidence, lung and bronchus, men and women, 2014–2018.	68
2.44	Regional incidence, prostate (men), men, 2014–2018.	68
4.1	Incidence trends, all sites, men and women, 1969–2018.	83
4.2	Incidence trends, breast (women), women, 1969–2018.	85
4.3	Incidence trends, colon and rectum, men and women, 1969–2018.	86
4.4	Incidence trends, lung and bronchus, men and women, 1969–2018.	87
4.5	Incidence trends, prostate (men), men, 1969–2018.	88
4.6	Incidence trends, kidney and renal pelvis, men and women, 1969–2018.	89
4.7	Incidence trends, stomach, men and women, 1969–2018.	90
4.8	Incidence trends, pancreas, men and women, 1969–2018.	91
4.9	Incidence trends, cervix uteri (women), women, 1969–2018.	92
4.10	Incidence trends, corpus uteri (women), women, 1969–2018.	93
4.11	Incidence trends, urinary bladder, men and women, 1969–2018.	94
4.12	Incidence trends, all sites, men and women, 1969–2018.	95
4.13	Incidence trends, lung and bronchus, men and women, 1969–2018.	96
4.14	Incidence trends, colon and rectum, men and women, 1969–2018.	97
4.15	Incidence trends, prostate (men), men, 1969–2018.	98
4.16	Incidence trends, stomach, men and women, 1969–2018.	99
4.17	Incidence trends, kidney and renal pelvis, men and women, 1969–2018.	100
4.18	Incidence trends, urinary bladder, men and women, 1969–2018.	101

4.19	Incidence trends, pancreas, men and women, 1969–2018.	102
4.20	Incidence trends, liver, men and women, 1969–2018.	103
4.21	Incidence trends, esophagus, men and women, 1969–2018.	104
4.22	Incidence trends, nasopharynx, men and women, 1969–2018.	105
4.23	Incidence trends, all sites, men and women, 1969–2018.	106
4.24	Incidence trends, breast (women), women, 1969–2018.	107
4.25	Incidence trends, colon and rectum, men and women, 1969–2018. . .	108
4.26	Incidence trends, lung and bronchus, men and women, 1969–2018.	109
4.27	Incidence trends, kidney and renal pelvis, men and women, 1969–2018.	110
4.28	Incidence trends, cervix uteri (women), women, 1969–2018.	111
4.29	Incidence trends, pancreas, men and women, 1969–2018.	112
4.30	Incidence trends, stomach, men and women, 1969–2018.	113
4.31	Incidence trends, thyroid, men and women, 1969–2018.	114
4.32	Incidence trends, corpus uteri (women), women, 1969–2018.	115
4.33	Incidence trends, ovary (women), women, 1969–2018.	116
6.1	Mortality trends, all malignant cancers, men and women, 1994–2018.	123
6.2	Mortality trends, lung and bronchus, men and women, 1994–2018.	125
6.3	Mortality trends, colon and rectum, men and women, 1994–2018. . .	126
6.4	Mortality trends, breast (women), men and women, 1994–2018. . . .	127
6.5	Mortality trends, prostate (men), men and women, 1994–2018.	128
6.6	Mortality trends, stomach, men and women, 1994–2018.	129
6.7	Mortality trends, all malignant cancers, men, 1994–2018.	130
6.8	Mortality trends, lung and bronchus, men, 1994–2018.	132
6.9	Mortality trends, colon and rectum, men, 1994–2018.	133
6.10	Mortality trends, stomach, men, 1994–2018.	134
6.11	Mortality trends, prostate (men), men, 1994–2018.	135
6.12	Mortality trends, pancreas, men, 1994–2018.	136
6.13	Mortality trends, all malignant cancers, women, 1994–2018.	137
6.14	Mortality trends, lung and bronchus, women, 1994–2018.	139
6.15	Mortality trends, colon and rectum, women, 1994–2018.	140
6.16	Mortality trends, breast (women), women, 1994–2018.	141
6.17	Mortality trends, pancreas, women, 1994–2018.	142
6.18	Mortality trends, stomach, women, 1994–2018.	143
7.1	Incidence trends, all sites, Aleutians and Pribilofs region, 1994–2018.	145
7.2	Incidence trends, all sites, Anchorage and Mat-Su region, 1994–2018.	146
7.3	Incidence trends, all sites, Arctic Slope region, 1994–2018.	147

7.4	Incidence trends, all sites, Bristol Bay region, 1994–2018.	148
7.5	Incidence trends, all sites, Copper River and Prince William Sound region, 1994–2018.	149
7.6	Incidence trends, all sites, Interior region, 1994–2018.	150
7.7	Incidence trends, all sites, Kenai Peninsula region, 1994–2018.	151
7.8	Incidence trends, all sites, Kodiak Area region, 1994–2018.	152
7.9	Incidence trends, all sites, Northwest Arctic region, 1994–2018.	153
7.10	Incidence trends, all sites, Norton Sound region, 1994–2018.	154
7.11	Incidence trends, all sites, Southeast region, 1994–2018.	155
7.12	Incidence trends, all sites, Yukon-Kuskokwim region, 1994–2018.	156
7.13	Incidence, top 5 sites, Aleutians and Pribilofs region, men and women, 2004–2018.	157
7.14	Incidence, top 5 sites, Anchorage and Mat-Su region, men and women, 2004–2018.	158
7.15	Incidence, top 5 sites, Arctic Slope region, men and women, 2004–2018.	159
7.16	Incidence, top 5 sites, Bristol Bay region, men and women, 2004–2018.	160
7.17	Incidence, top 5 sites, Copper River and Prince William Sound region, men and women, 2004–2018.	161
7.18	Incidence, top 5 sites, Interior region, men and women, 2004–2018.	162
7.19	Incidence, top 5 sites, Kenai Peninsula region, men and women, 2004–2018.	163
7.20	Incidence, top 5 sites, Kodiak Area region, men and women, 2004–2018.	164
7.21	Incidence, top 5 sites, Northwest Arctic region, men and women, 2004–2018.	165
7.22	Incidence, top 5 sites, Norton Sound region, men and women, 2004–2018.	166
7.23	Incidence, top 5 sites, Southeast region, men and women, 2004–2018.	167
7.24	Incidence, top 5 sites, Yukon-Kuskokwim region, men and women, 2004–2018.	168

Addenda

The following changes have occurred since initial publication.

2021-05-04

- Chapter 6 Cancer Mortality Trends by Cause (pg. 123)
 - Renamed Section 6.1 *Twenty-five-year Cancer Mortality Trends* to Section 6.1 *Men and Women Combined* (pg. 123)
 - Added Section 6.2 Men Only (pg. 130)
 - Added Section 6.3 Women Only (pg. 137)

