

Table F 1. Resident fish at Slate Creek.

Lower Slate Creek					Upper Slate Creek				
Pass #	Species	Length	Weight	K	Pass #	Species	Length	Weight	K
1	DV	70	3.9	1.14	1	DV	124	19.8	1.04
1	DV	90	7	0.96	1	DV	85	6.6	1.07
1	DV	100	7.2	0.72	1	DV	109	13.6	1.05
1	CT	95	12.2	1.42	1	DV	125	21.6	1.11
1	CT	72	4.1	1.1	1	DV	144	29.8	1
1	CT	85	6.7	1.09	1	DV	55	1.7	1.02
1	CT	95	7.6	0.89	1	DV	60	2.3	1.06
1	CT	75	4.3	1.02	1	DV	65	3.1	1.13
1	CT	95	7.7	0.9	1	DV	59	2.3	1.12
1	CT	110	11.6	0.87	1	DV	62	2.5	1.05
1	CT	95	8.7	1.01	1	DV	57	1.8	0.97
1	CT	110	12.8	0.96	1	DV	56	1.9	1.08
1	CT	110	13.4	1.01	1	DV	36	0.3	0.64
1	CT	95	N/A	N/A	1	DV	*	*	*
1	CT	105	11.4	0.98	2	DV	75	3.7	0.88
1	CT	100	7.3	0.73	2	DV	65	2.4	0.87
1	CT	90	6.4	0.88	2	DV	55	2.7	1.62
1	CT	90	7.5	1.03	2	DV	60	3.5	1.62
1	CT	95	8.5	0.99	2	DV	65	3.3	1.2
1	CT	85	6.1	0.99	2	DV	34	0.3	0.76
1	CT	80	5.1	1	2	DV	52	1.5	1.07
1	CT	70	3.6	1.05	2	DV	55	1.8	1.08
2	CT	100	10.6	1.06	2	DV	62	2.6	1.09
2	CT	95	7.8	0.91	2	DV	34	0.3	0.76
2	CT	80	5.3	1.04	2	DV	55	1.7	1.02
2	CT	78	5.2	1.1	2	DV	56	1.8	1.02
2	CT	83	6.1	1.07	3	DV	125	18.3	0.94
2	CT	81	5	0.94	3	DV	58	2.3	1.18
3	DV	110	7.7	0.58	Average DV K (95% CI) 1.06 ±0.08				
3	CT	95	6.1	0.71	*Possible outliers not included in mean condition factor.				
3	CT	85	5.8	0.94					
3	CT	85	5.5	0.9					
3	CT	80	5.1	1					
Average DV K (95% CI)				0.85 (±0.40)					
Average CT K (95% CI)				0.98 (±0.05)					

Middle Slate Creek				
Pass #	Species	Length	Weight	K
1	DV	120	19.3	1.12
1	DV	130	19	0.86
1	DV	105	11.9	1.03
1	DV	105	15.9	1.37
1	DV	105	15	1.3
1	DV	120	18.6	1.08
2	DV	140	29.2	1.06
2	DV	105	13.9	1.2
3	DV	120	18.3	1.06
3	DV	115	15.9	1.05
Average DV K (95% CI)				1.11 (±0.10)

Table F 2. Resident Fish at Johnson Creek.

Lower Johnson Creek					Middle Johnson Creek				
Pass #	Species	Length	Weight	K	Pass #	Species	Length	Weight	K
1	DV	110	10.6	0.8	1	DV	120	19.1	1.11
1	DV	100	8.9	0.89	1	DV	150	34.5	1.02
1	DV	115	14.4	0.95	1	DV	135	24.8	1.01
1	DV	30	1.6	5.93	1	DV	90	7.5	1.03
1	DV	150	33.4	0.99	1	DV	120	14.3	0.83
1	DV	115	17	1.12	1	DV	100	9.2	0.92
1	DV	50	4.3	3.44	1	DV	95	9.1	1.06
1	DV	190	62.6	0.91	1	DV	75	4.4	1.04
1	DV	110	14.3	1.07	1	DV	110	14.7	1.1
1	DV	70	5.3	1.55	1	DV	110	13	0.98
1	DV	45	2	2.19	1	DV	115	13.2	0.87
1	DV	210	34.3	0.37	1	DV	125	19.2	0.98
1	DV	220	100.7	0.95	1	DV	115	15.6	1.03
1	DV	190	60.7	0.88	1	DV	145	27.5	0.9
1	DV	110	15.5	1.16	1	DV	115	16.8	1.1
1	DV	30	0.4	1.48	1	DV	120	15.4	0.89
1	DV	30	0.3	1.11	1	DV	115	14.7	0.97
1	DV	75	6	1.42	1	DV	105	11	0.95
1	DV	117	16.6	1.04	1	DV	145	30.2	0.99
1	DV	165	31.8	0.71	1	DV	125	18.2	0.93
1	DV	195	65.8	0.89	1	DV	100	9.4	0.94
1	DV	180	55.8	0.96	1	DV	110	11.4	0.86
1	DV	35	0.5	1.17	1	DV	115	14.8	0.97
1	CT	110	14.3	1.07	1	DV	130	21.6	0.98
2	DV	70	4.6	1.34	1	DV	85	6.2	1.01
2	DV	75	4.5	1.07	1	DV	120	15.9	0.92
2	DV	55	2	1.2	1	DV	115	16.1	1.06
2	DV	110	9.3	0.7	1	DV	100	8.9	0.89
2	DV	90	5.4	0.74	1	DV	105	12.1	1.05
2	DV	75	4.6	1.09	1	DV	115	15.6	1.03
2	DV	325	367.2	1.07	1	DV	95	8.5	0.99
2	DV	100	10.6	1.06	1	DV	120	18.4	1.06
2	DV	90	7.65	1.05	1	DV	80	4.4	0.86
2	CT	70	8.1	2.36	1	DV	120	13.8	0.8
3	DV	110	12.2	0.92	1	DV	90	7	0.96
3	DV	75	4.3	1.02	2	DV	95	10.6	1.24
3	DV	75	5.2	1.23	2	DV	90	*	*
3	DV	30	2.2	8.15	2	DV	85	*	*
3	DV	35	0.7	1.63	2	DV	100	*	*
3	DV	60	3.6	1.67	2	DV	105	*	*
3	DV	30	0.7	2.59	2	DV	120	*	*
3	DV	110	10.9	0.82	2	DV	125	*	*
3	DV	73	7.8	2.01	2	DV	55	*	*
3	DV	25	0.2	1.28	2	DV	100	*	*
3	CT	80	6.8	1.33	2	DV	115	*	*
Average DV K (95% CI)				1.13 ±0.16	2	DV	75	*	*
Average CT K (95% CI)				1.20 ±0.16	2	DV	75	*	*
					2	DV	100	*	*

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Appendix F 2. Resident Fish at Johnson Creek.

Middle Johnson Creek				
Pass #	Species	Length	Weight	K
2	DV	95	*	*
2	DV	120	*	*
2	DV	125	*	*
3	DV	150	*	*
3	DV	125	*	*
3	DV	125	*	*
3	DV	100	*	*
3	DV	120	*	*
3	DV	95	*	*
3	DV	80	*	*
3	DV	165	*	*
3	DV	130	*	*
3	DV	95	*	*
3	DV	90	*	*
3	DV	75	*	*
3	DV	95	*	*
3	DV	130	*	*
3	DV	100	*	*
3	DV	105	*	*
Average DV K (95% CI)				0.97 ±0.03

*Weights not available as the batteries in our scale expired during data collection.

Upper Johnson Creek				
Pass #	Species	Length	Weight	K
1	DV	175	51.5	0.96
1	DV	95	8.6	1
3	DV	145	36.1	1.18
3	DV	145	28.4	0.93
3	DV	155	37.5	1.01
3	DV	165	40.1	0.89
3	DV	120	19.3	1.12
Average DV K (95% CI)				1.01 ± 0.10

Table F 3. Resident fish at Sherman Creek.

Lower Sherman Creek				
Pass #	Species	Length	Weight	K
1	DV	75	4.7	1.11
1	DV	125	19.5	1
1	DV	95	10.7	1.25
1	DV	115	14.9	0.98
1	DV	130	22.3	1.02
1	DV	75	4.4	1.04
1	DV	85	7	1.14
1	DV	80	5.9	1.15
1	DV	130	19.5	0.89
1	DV	70	5.2	1.52
1	DV	75	6.5	1.54
1	DV	145	29.8	0.98
1	DV	74	7.5	1.85
1	DV	85	7	1.14
1	DV	65	4.5	1.64
1	DV	80	6.5	1.27
1	DV	90	6.1	0.84
1	DV	140	25.8	0.94
1	DV	110	14.6	1.1
1	DV	135	23	0.93
1	DV	135	24.1	0.98
1	DV	130	20.6	0.94
1	DV	110	14.7	1.1
1	DV	90	7.8	1.07
1	DV	70	6	1.75
1	DV	143	26.8	0.92
1	DV	75	6	1.42
1	DV	120	17.7	1.02
1	DV	75	5.8	1.37
1	DV	87	6.9	1.05
1	DV	70	4	1.17
1	DV	305	307.6	1.08
1	DV	240	153.1	1.11
1	DV	200	76.3	0.95
1	DV	220	75	0.7
1	DV	175	85.3	1.59
1	DV	185	59.3	0.94
1	DV	130	21.6	0.98
1	DV	230	22.8	0.19
1	DV	105	10.7	0.92
1	DV	115	14.2	0.93
1	CT	75	5.1	1.21
2	DV	120	14.5	0.84
2	DV	90	7.5	1.03
2	DV	165	40.2	0.89
2	DV	180	60.1	1.03
2	DV	90	7.5	1.03
2	DV	125	17.4	0.89
2	DV	85	5	0.81
2	DV	140	24	0.87

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Appendix F 3. Resident fish at Sherman Creek.

Lower Sherman Creek				
Pass #	Species	Length	Weight	K
2	DV	110	10.5	0.79
2	DV	115	12.8	0.84
2	DV	75	4.9	1.16
2	DV	85	5.4	0.88
2	DV	70	3.6	1.05
2	DV	80	5.3	1.04
2	DV	60	4.1	1.9
2	DV	85	8.2	1.34
2	DV	305	334	1.18
2	CT	90	7.2	0.99
3	DV	85	7.8	1.27
3	DV	130	20.4	0.93
3	DV	95	8.7	1.01
3	DV	70	4.3	1.25
3	DV	135	25.9	1.05
3	DV	130	24.4	1.11
3	DV	95	7.3	0.85
3	CT	125	20.7	1.06
Average DV K (95% CI)				1.09 ± 0.07
Average CT K (95% CI)				1.09 ± 0.28

Middle Sherman Creek				
Pass #	Species	Length	Weight	K
1	DV	145	27.6	0.91
1	DV	125	20.4	1.04
1	DV	110	13.3	1
1	DV	95	8.2	0.96
1	DV	115	13.7	0.9
1	DV	105	11.6	1
1	DV	105	12.4	1.07
1	DV	95	7.7	0.9
2	DV	105	11.1	0.96
2	DV	160	42.6	1.04
2	DV	115	15.1	0.99
2	DV	105	10.7	0.92
3	DV	125	10.4	0.53
3	DV	110	15.2	1.14
3	DV	130	21.3	0.97
3	DV	110	13.8	1.04
3	DV	75	3.7	0.88
3	DV	115	13.3	0.87
Average DV K (95% CI)				0.95 ± 0.04

Upper Sherman Creek				
Pass #	Species	Length	Weight	K
1	DV	135	23.7	0.96
1	DV	110	11.9	0.89
1	DV	125	19.3	0.99
1	DV	80	5.3	1.04
1	DV	125	20.1	1.03
1	DV	140	23.5	0.86
1	DV	75	4	0.95
2	DV	105	11.6	1
2	DV	105	10	0.86
2	DV	110	12.5	0.94
2	DV	105	10.9	0.94
2	DV	145	26.6	0.87
2	DV	125	18.4	0.94
2	DV	125	19.2	0.98
2	DV	110	13.7	1.03
3	DV	140	30.2	1.1
3	DV	110	12.7	0.95
3	DV	100	9.4	0.94
3	DV	115	15	0.99
3	DV	100	10.1	1.01
3	DV	70	4.5	1.31
3	DV	125	17.1	0.88
3	DV	80	4.6	0.9
3	DV	90	6.6	0.91
3	DV	80	4.2	0.82
Average DV K (95% CI)				0.97 ± 0.04

Table F 4.–Resident fish capture data at Kensington Mine biomonitoring sites.

Site	Fish Species	Fork Lengths	Number of Fish Captured 90m				Pop. Est.	Popn 95% C.I.	Pop. Est. 360m Projection	Popn 95% C.I.
			Set 1	Set 2	Set 3	Total				
2011										
Lower Slate Cr	DV	70–110	3	0	1	4	4	---	16	---
	CT	70–110	19	6	4	29	30	27-33	123	115–131
	CO	*	89	74	44	207	---	---	---	---
Middle Slate Cr	DV	105–140	6	2	2	10	10	10-Oct	44	38–50
Upper Slate Cr	DV	35–145	14	12	2	28	30	26-34	124	112–136
Lower Johnson Cr	DV	30–325	23	9	9	41	46	39-53	193	171–215
	CT	70–110	1	1	1	3	3	---	12	---
	CO	*	11	23	30	64	---	---	---	---
Middle Johnson Cr	DV	55–165	35	16	16	67	81	65-97	332	295–369
Upper Johnson Cr	DV	95–175	2	0	5	7	10	16-Apr	58	26–90
Lower Sherman Cr	DV	60–305	42	17	7	66	69	64-74	280	268–292
	CT	75–125	1	1	1	3	3	---	12	---
Middle Sherman Cr	DV	75–160	8	4	6	18	23	14-32	103	73–133
Upper Sherman Cr	DV	70–145	7	8	10	25	40	20-60	182	125–239

Table F 5.—Resident fish capture data by habitat type.

Site	Habitat Type	Fish Species	Number of Fish Captured 360m				Pop. Est.	Popn 95% C.I.	Pop. Est. 360m Projection	Popn 95% C.I.
			Set 1	Set 2	Set 3	Total				
2011										
Lower Slate Cr	Riffle	DV	0	0	1	1	1	---	4	---
		CT	3	3	0	6	6	---	24	---
	Pool	DV	3	0	0	3	3	---	12	---
		CT	14	2	3	19	19	19-19	79	74-84
	Glide	DV	0	0	0	0	0	0	0	0
		CT	3	1	1	5	5	5-May	27	21-33
Middle Slate Cr	Riffle	DV	3	0	0	3	3	---	12	---
	Pool	DV	3	1	2	6	7	10-Apr	30	20-40
	Glide	DV	0	1	0	1	1	---	4	---
Upper Slate Cr	Riffle	DV	2	2	0	4	4	---	16	---
	Pool	DV	11	9	1	21	22	19-25	90	83-97
	Glide	DV	1	1	1	3	3	---	12	---
Lower Johnson Cr	Riffle	DV	1	1	3	5	6	9-Mar	39	15-63
		CT	0	0	1	1	1	---	4	---
	Pool	DV	19	6	4	29	30	27-33	123	115-131
		CT	1	1	0	2	2	---	8	---
	Glide	DV	3	2	2	7	8	11-May	36	24-48
		CT	0	0	0	0	0	0	0	0
Middle Johnson Cr	Riffle	DV	3	3	3	9	11	16-Jun	54	32-76
	Pool	DV	29	13	13	55	65	53-77	219	201-237
	Glide	DV	3	0	0	3	3	---	12	---
Upper Johnson Cr	Riffle	DV	0	0	0	0	0	0	0	0
	Pool	DV	2	0	0	2	2	---	8	---
	Glide	DV	0	0	5	5	9	17-Jan	53	18-88
Lower Sherman Cr	Riffle	DV	3	0	2	5	5	5-May	24	17-31
		CT	1	0	0	1	1	---	4	---
	Pool	DV	32	14	0	46	46	46-46	200	195-205
		CT	0	1	0	1	1	---	4	---
	Glide	DV	7	3	5	15	16	20-Dec	83	59-107
		CT	0	0	1	1	1	---	4	---
Middle Sherman Cr	Riffle	DV	2	1	2	5	5	5-May	28	15-41
	Pool	DV	6	3	4	13	15	19-Nov	70	49-91
	Glide	DV	0	0	0	0	0	0	0	0
Upper Sherman Cr	Riffle	DV	1	2	4	7	10	16-Apr	58	26-90
	Pool	DV	6	4	4	14	17	23-Nov	76	54-98
	Glide	DV	0	2	2	4	5	8-Feb	32	Oct-54

Figure F 1.-Length/frequency figures for Dolly Varden char captured at Slate Creek.

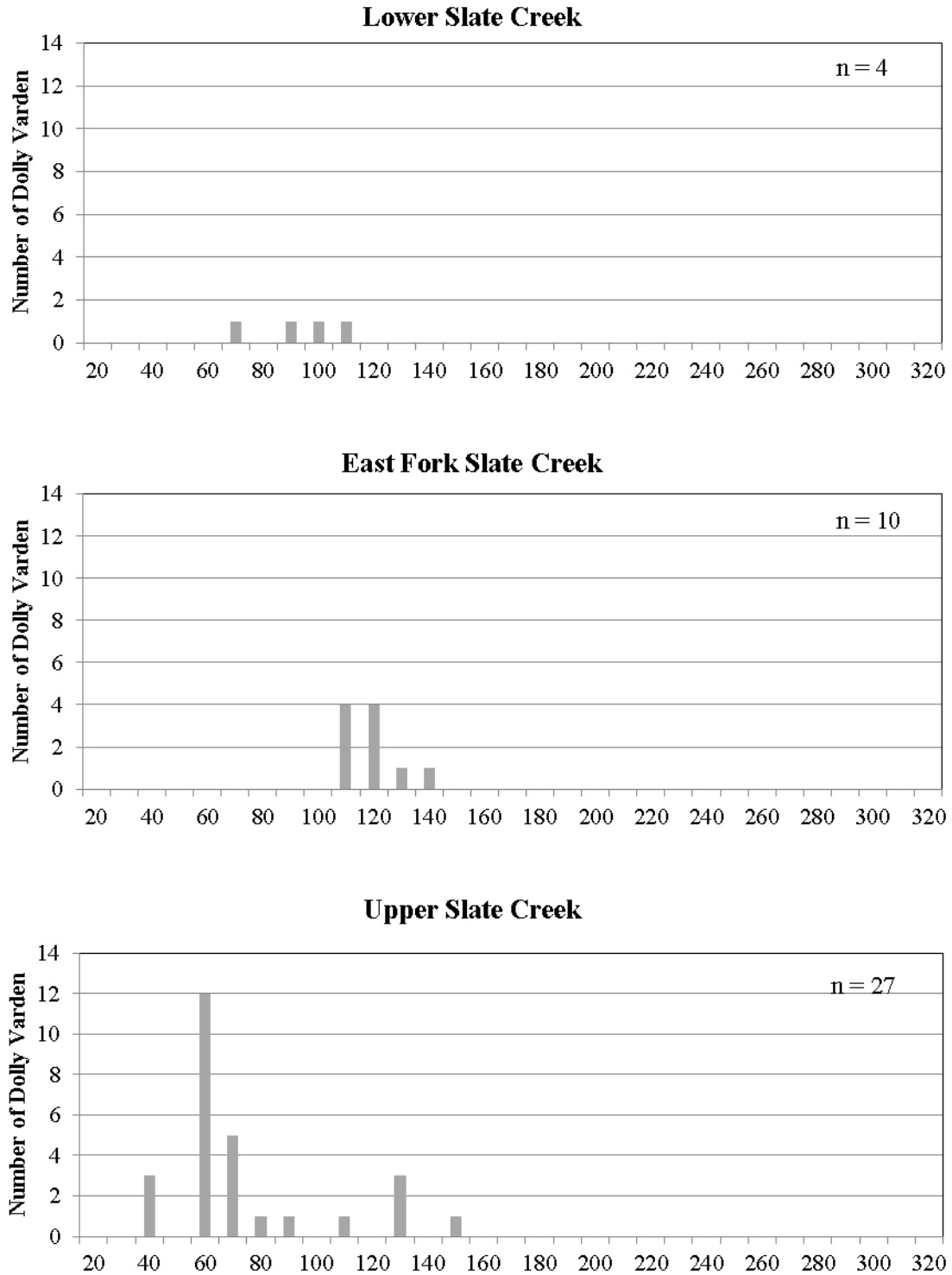


Figure F 2.—Length/frequency figures for Dolly Varden char captured at Johnson Creek.

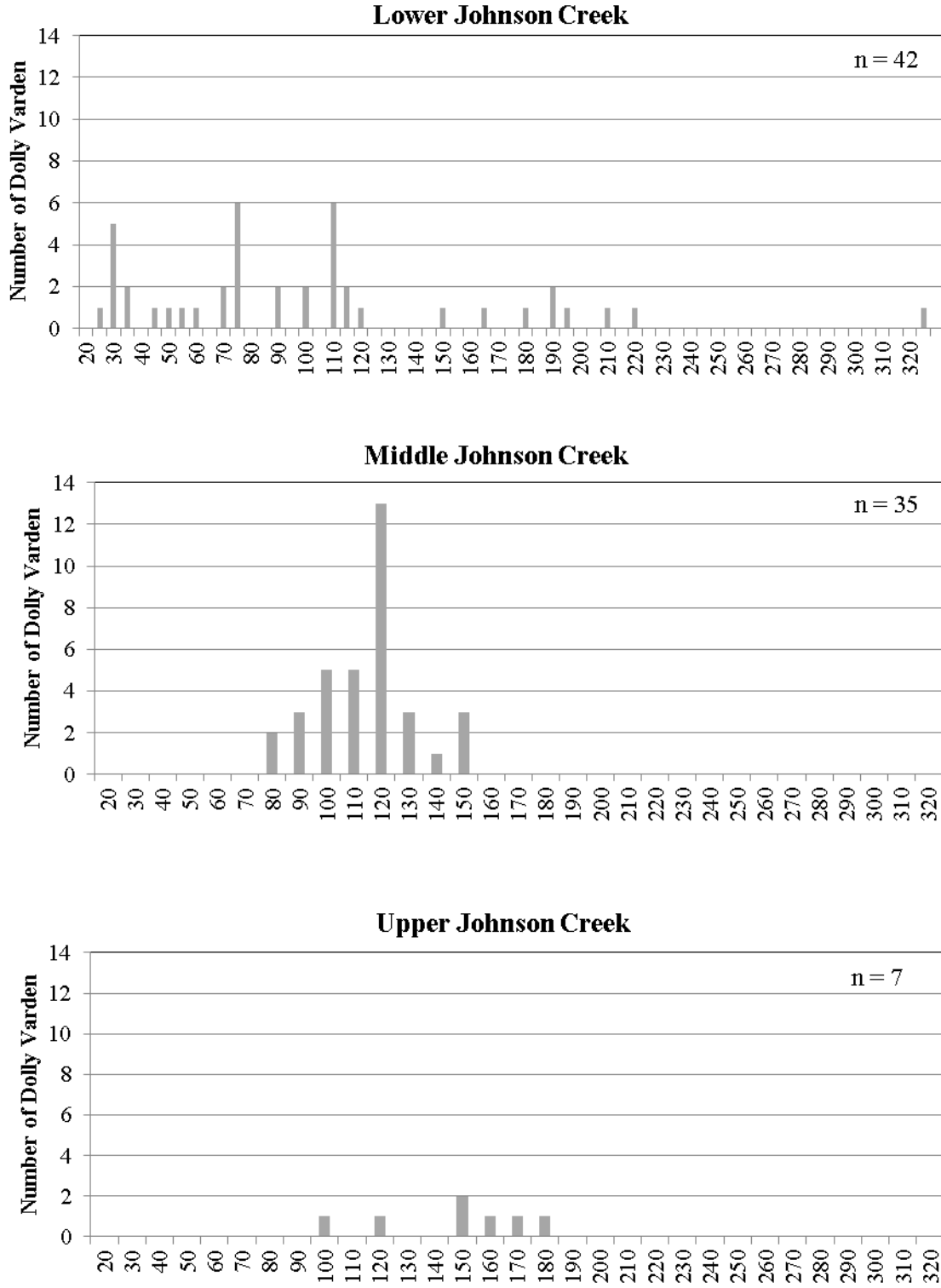


Figure F 3.—Length/frequency figures for Dolly Varden char captured at Sherman Creek.

