

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Whitewood Creek, Lawrence County
09-0056-00
1998

Table 1. Population and Biomass Estimates for Whitewood Creek

Site Number: 539	Date Sampled: 06/03/1998	Conductivity (umhos/cm): 680
Site Midpoint (Latitude, Longitude): 44.39558878, -103.70337461	Site Length (m): 100	pH: 8.9
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 6.5	Water Temperature (C): 10.0
Stream Classification: BK3, BR1	Number of Pass: 3	Voltage: 200

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	1	1	1	1	15	1	10	6	0.60	16	156.0	44.0
Brook Trout	>=200mm	3	3	3	3	46	5	30	19	4.27	48	218.0	103.7
Brook Trout	All	4	4	4	4	62	5	40	25	4.88	64	202.5	88.8
Brown Trout	<200mm	11	11	13	11	169	11	110	69	9.58	177	159.8	63.4
Brown Trout	>=200mm	31	31	32	31	477	134	310	193	119.33	499	284.5	280.2
Brown Trout	All	42	42	43	42	646	147	420	262	131.16	676	251.9	227.3
Hatchery Brown Trout	>=200mm	1	1	2	1	15	2	10	6	2.12	16	275.0	154.0
Hatchery Brown Trout	All	1	1	2	1	15	2	10	6	2.12	16	275.0	154.0
Longnose Dace	All	185	184	206	185	2831	9	1840	1146	7.95	2961	69.0	3.1
Mountain Sucker	All	109	287	616	109	4415	99	2870	1788	88.22	4618	120.2	22.4

Site Number: 539	Date Sampled: 09/11/1998	Conductivity (umhos/cm): 19.0
Site Midpoint (Latitude, Longitude): 44.39558878, -103.70337461	Site Length (m): 100	pH: 19.0
Survey Completed by: OEA Research Inc.	Mean Width (m): 6.1	Water Temperature (C): 19.0
Stream Classification: BR1	Number of Pass: 3	Voltage: 200

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	33	40	54	33	651	11	400	264	10.01	644	109.5	17.2
Brown Trout	>=200mm	32	45	72	32	733	215	450	297	191.92	724	303.3	293.3
Brown Trout	All	65	88	120	65	1433	219	880	580	195.95	1416	204.9	153.1
Longnose Dace	All	150	182	210	154	2964	13	1820	1200	11.18	2928	77.0	4.2
Mountain Sucker	All	57	89	141	57	1450	51	890	587	45.96	1432	136.6	35.5

Site Number: 558

Site Midpoint (Latitude, Longitude): 44.38550441, -103.71870274

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR1

Date Sampled: 06/03/1998

Site Length (m): 100

Mean Width (m): 7.1

Number of Pass: 3

Conductivity (umhos/cm): 620

pH:

Water Temperature (C): 12.2

Voltage:

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	3	3	3	3	42	2	30	17	2.06	48	179.7	54.7
Brook Trout	>=200mm	3	3	3	3	42	4	30	17	3.62	48	213.0	96.0
Brook Trout	All	6	6	6	6	85	6	60	34	5.68	97	196.3	75.3
Brown Trout	<200mm	14	14	14	14	197	14	140	80	12.84	225	180.5	72.9
Brown Trout	>=200mm	37	39	44	37	549	77	390	222	68.68	628	231.6	140.0
Brown Trout	All	51	52	55	51	732	89	520	297	79.52	837	217.5	121.6
Hatchery Brown Trout	>=200mm	14	14	14	14	197	38	140	80	33.61	225	265.8	190.9
Hatchery Brown Trout	All	14	14	14	14	197	38	140	80	33.61	225	265.8	190.9
Longnose Dace	All	10	20	70	10	282	2	200	114	1.38	322	78.6	5.5
Mountain Sucker	All	23	90	490	23	1268	60	900	513	53.29	1448	145.7	47.1

Site Number: 558
Site Midpoint (Latitude, Longitude): 44.38550441, -103.71870274
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK3, BR1

Date Sampled: 09/10/1998 **Conductivity (umhos/cm):** 830
Site Length (m): 100 **pH:** 8.2
Mean Width (m): 7.7 **Water Temperature (C):** 15.5
Number of Pass: 3 **Voltage:** 250

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	1	1	2	1	13	1	10	5	0.85	16	199.0	73.0
Brook Trout	>=200mm	1	1	1	1	13	1	10	5	1.33	16	222.0	114.0
Brook Trout	All	2	2	3	2	26	2	20	11	2.18	32	210.5	93.5
Brown Trout	<200mm	53	67	88	53	875	13	670	354	11.49	1078	104.5	14.7
Brown Trout	>=200mm	65	66	69	65	862	157	660	349	139.94	1062	256.8	181.9
Brown Trout	All	118	128	139	118	1671	178	1280	677	159.37	2060	188.4	106.8
Hatchery Brown Trout	>=200mm	6	6	7	6	78	14	60	32	12.58	97	270.5	179.8
Hatchery Brown Trout	All	6	6	7	6	78	14	60	32	12.58	97	270.5	179.8
Longnose Dace	All	37	61	112	37	796	4	610	323	3.16	981	77.6	4.4
Mountain Sucker	All	47	51	59	47	666	17	510	270	14.91	821	131.4	25.1
Rock Bass	All	1	1	1	1	13	1	10	5	0.61	16	137.0	52.0

Site Number: 588
Site Midpoint (Latitude, Longitude): 44.36654564, -103.73424434
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK0, BR3

Date Sampled: 09/10/1998 **Conductivity (umhos/cm):** 1022
Site Length (m): 100 **pH:** 7.8
Mean Width (m): 4.9 **Water Temperature (C):** 16.3
Number of Pass: 4 **Voltage:** 150

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	2	2	5	2	40	0	20	16	0.43	32	108.0	12.0
Brook Trout	All	2	2	5	2	40	0	20	16	0.43	32	108.0	12.0
Brown Trout	<200mm	10	10	12	10	202	3	100	82	2.95	161	109.7	16.3
Brown Trout	>=200mm	3	3	4	3	61	8	30	25	6.78	48	232.0	125.0
Brown Trout	All	13	13	15	13	263	11	130	107	9.72	209	137.9	41.4
Longnose Dace	All	2	2	4	2	40	0	20	16	0.34	32	97.5	9.5
Mountain Sucker	All	11	14	25	11	283	9	140	115	7.75	225	137.5	30.6

Site Number: 599

Site Midpoint (Latitude, Longitude): 44.36363265, -103.73830179

Survey Completed by: OEA Research Inc.

Stream Classification: BK3, BR2

Date Sampled: 09/10/1998

Site Length (m): 100

Mean Width (m): 5.2

Number of Pass: 4

Conductivity (umhos/cm):

pH:

Water Temperature (C): 2.1

Voltage:

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	15	15	17	15	290	5	150	117	4.03	241	102.8	15.6
Brook Trout	>=200mm	1	1	1	1	19	3	10	8	2.24	16	225.0	130.0
Brook Trout	All	16	16	18	16	309	7	160	125	6.27	257	110.4	22.8
Brown Trout	<200mm	36	37	41	36	714	10	370	289	8.52	595	100.1	13.4
Brown Trout	>=200mm	4	4	7	4	77	11	40	31	9.74	64	225.5	141.3
Brown Trout	All	40	43	49	40	830	22	430	336	19.38	692	112.6	26.2
Longnose Dace	All	5	5	7	5	97	0	50	39	0.34	80	74.0	4.0
Mountain Sucker	All	22	22	23	22	425	23	220	172	20.56	354	150.9	54.2

Site Number: 612
Site Midpoint (Latitude, Longitude): 44.35478049, -103.73811696
Survey Completed by: OEA Research Inc.
Stream Classification: BK2, BR1

Date Sampled: 06/02/1998
Site Length (m): 100
Mean Width (m): 5.5
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C): 7.2
Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	32	32	33	32	580	26	320	235	22.81	515	142.4	44.1
Brook Trout	>=200mm	5	5	6	5	91	10	50	37	8.59	80	211.4	106.2
Brook Trout	All	37	37	38	37	670	35	370	271	31.54	595	151.7	52.7
Brown Trout	<200mm	60	61	64	60	1105	35	610	448	31.66	981	130.0	32.1
Brown Trout	>=200mm	22	22	22	22	399	56	220	161	50.30	354	217.2	141.4
Brown Trout	All	82	83	86	82	1504	92	830	609	82.44	1335	153.4	61.4
Hatchery Brown Trout	>=200mm	1	1	1	1	18	3	10	7	2.83	16	253.0	175.0
Hatchery Brown Trout	All	1	1	1	1	18	3	10	7	2.83	16	253.0	175.0
Longnose Dace	All	40	56	85	40	1014	6	560	411	5.66	901	78.3	6.3

Site Number: 612
Site Midpoint (Latitude, Longitude): 44.35478049, -103.73811696
Survey Completed by: OEA Research Inc.
Stream Classification: BK2, BR1

Date Sampled: 09/10/1998
Site Length (m): 100
Mean Width (m): 5.6
Number of Pass: 4
Conductivity (umhos/cm):
pH:
Water Temperature (C): 15.0
Voltage:

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	23	23	25	23	408	12	230	165	10.84	370	134.8	29.8
Brook Trout	>=200mm	4	4	4	4	71	7	40	29	6.00	64	210.3	94.8
Brook Trout	All	27	27	29	27	479	19	270	194	16.84	434	146.0	39.4

Brown Trout	<200mm	94	98	104	94	1738	43	980	704	38.19	1577	118.0	24.6
Brown Trout	>=200mm	21	21	22	21	372	67	210	151	59.70	338	249.4	179.6
Brown Trout	All	115	119	125	115	2110	112	1190	855	99.68	1915	142.0	52.9
Hatchery Brown Trout	>=200mm	1	1	1	1	18	4	10	7	3.99	16	289.0	252.0
Hatchery Brown Trout	All	1	1	1	1	18	4	10	7	3.99	16	289.0	252.0
Longnose Dace	All	19	26	44	19	461	3	260	187	2.40	418	82.7	5.8

Stream sites are classified based on the estimates of adult trout over eight inches that exist within the site. Estimates are derived from 3-pass backpack electrofishing surveys at 100-meter sites within streams. While all fish in the site are collected and measured, only trout species are used for classifications. Sites are numbered in accordance for the distance (m) from the stream confluence of a higher order stream/river.

Based on number of trout in excess of eight inches	
Class BR1	Number of wild Brown Trout exceeds 150 per acre
Class BR2	Number of wild Brook Trout ranges from 25 to 150 per acre
Class BR3	Number of wild Brown Trout is less than 25 per acre
Class BK1	Number of wild Brook Trout exceeds 150 per acre
Class BK2	Number of wild Brook Trout ranges from 25 to 150 per acre
Class BK3	Number of wild Brook Trout is less than 25 per acre
Class RB1	Number of wild Rainbow Trout exceeds 25 per acre
Class RB2	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on Whitewood Creek, 1988-1998

Site 539

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 03, 1998	1	1-1	
Brook Trout >=200mm	Jun 03, 1998	3	3-3	BK3
Brown Trout <200mm	Sep 20, 1995	1	1-1	
	Jun 03, 1998	11	11-13	
	Sep 11, 1998	40	33-54	
Brown Trout >=200mm	Sep 20, 1995	20	20-21	BR2
	Jun 03, 1998	31	31-32	BR1

Brown Trout >=200mm	Sep 11, 1998	45	32-72	BR1
Hatchery Brown Trout >=200mm	Jun 03, 1998	1	1-2	
Longnose Dace	Jun 03, 1998	184	185-206	
	Sep 11, 1998	182	154-210	
Mountain Sucker	Sep 20, 1995	154	146-163	
	Jun 03, 1998	287	109-616	
	Sep 11, 1998	89	57-141	

Site 558

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 27, 1994	1	1-2	
	Sep 23, 1996	1	1-2	
	Oct 10, 1997	1	1-1	
	Jun 03, 1998	3	3-3	
	Sep 10, 1998	1	1-2	
Brook Trout >=200mm	Jun 03, 1998	3	3-3	BK3
	Sep 10, 1998	1	1-1	BK3

Brown Trout <200mm	Oct 03, 1992	102	60-173	
	Sep 14, 1993	43	41-48	
	Sep 27, 1994	60	52-72	
	Sep 07, 1995	27	25-32	
	Sep 23, 1996	101	83-122	
	Oct 10, 1997	77	73-83	
	Jun 03, 1998	14	14-14	
	Sep 10, 1998	67	53-88	
Brown Trout >=200mm	Oct 03, 1992	24	24-25	BR1
	Sep 14, 1993	50	50-51	BR1
	Sep 27, 1994	44	44-46	BR1
	Sep 07, 1995	28	28-29	BR1
	Sep 23, 1996	38	38-39	BR1
	Oct 10, 1997	58	57-61	BR1
	Jun 03, 1998	39	37-44	BR1
	Sep 10, 1998	66	65-69	BR1

Hatchery Brown Trout <200mm	Sep 07, 1995	1	1-5
Hatchery Brown Trout ≥200mm	Oct 03, 1992	68	68-69
	Sep 14, 1993	19	19-20
	Sep 27, 1994	17	17-18
	Sep 07, 1995	24	24-25
	Sep 23, 1996	54	54-55
	Oct 10, 1997	28	28-29
	Jun 03, 1998	14	14-14
	Sep 10, 1998	6	6-7
Longnose Dace	Oct 03, 1992	36	14-150
	Sep 14, 1993	14	14-15
	Sep 27, 1994	33	19-77
	Sep 07, 1995	8	7-14
	Sep 23, 1996	8	8-9
	Oct 10, 1997	10	11-13
	Jun 03, 1998	20	10-70

Longnose Dace	Sep 10, 1998	61	37-112
Mountain Sucker	Oct 03, 1992	44	36-59
	Sep 14, 1993	15	14-19
	Sep 27, 1994	23	22-27
	Sep 07, 1995	20	17-29
	Sep 23, 1996	19	16-28
	Oct 10, 1997	20	14-40
	Jun 03, 1998	90	23-490
	Sep 10, 1998	51	47-59
Rock Bass	Sep 10, 1998	1	1-1

Site 588

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 27, 1994	2	2-3	
	Oct 10, 1997	24	7-190	
	Sep 10, 1998	2	2-5	
Brook Trout >=200mm	Sep 27, 1994	5	5-6	BK2

Brook Trout >=200mm	Oct 10, 1997	4	4-4	BK2
Brown Trout <200mm	Feb 02, 1993	6	6-7	
	Sep 27, 1994	43	42-46	
	Sep 07, 1995	11	11-13	
	Sep 23, 1996	116	60-221	
	Oct 10, 1997	82	22-432	
	Sep 10, 1998	10	10-12	
Brown Trout >=200mm	Feb 02, 1993	9	9-11	BR2
	Sep 27, 1994	26	26-27	BR1
	Sep 07, 1995	6	6-9	BR2
	Sep 23, 1996	23	23-24	BR1
	Oct 10, 1997	64	57-75	BR1
	Sep 10, 1998	3	3-4	BR3
Hatchery Brown Trout <200mm	Feb 02, 1993	2	2-2	
	Sep 23, 1996	1	1-2	
Hatchery Brown Trout >=200mm	Feb 02, 1993	28	28-30	

Hatchery Brown Trout ≥200mm	Sep 27, 1994	22	22-23
	Sep 07, 1995	17	16-21
	Sep 23, 1996	18	18-19
	Oct 10, 1997	2	2-3
Longnose Dace	Feb 02, 1993	3	3-4
	Sep 07, 1995	1	1-1
	Sep 23, 1996	7	7-9
	Sep 10, 1998	2	2-4
Mountain Sucker	Feb 02, 1993	1	1-1
	Sep 27, 1994	4	4-4
	Sep 07, 1995	2	2-3
	Sep 23, 1996	3	3-4
	Sep 10, 1998	14	11-25

Site 599

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Oct 12, 1994	1	1-1	

Brook Trout <200mm	Sep 15, 1995	4	4-5	
	Sep 26, 1996	17	14-27	
	Sep 22, 1997	10	10-12	
	Dec 03, 1997	40	37-46	
	Sep 10, 1998	15	15-17	
Brook Trout >=200mm	Sep 15, 1995	2	2-2	BK3
	Sep 26, 1996	1	1-1	BK3
	Sep 22, 1997	1	1-2	BK3
	Dec 03, 1997	4	4-4	BK2
	Sep 10, 1998	1	1-1	BK3
Brown Trout <200mm	Oct 12, 1994	26	22-36	
	Sep 15, 1995	2	2-3	
	Sep 26, 1996	15	15-17	
	Sep 22, 1997	20	20-22	
	Dec 03, 1997	43	39-51	
	Sep 10, 1998	37	36-41	

Brown Trout >=200mm	Oct 12, 1994	37	37-38	BR1
	Sep 15, 1995	18	18-20	BR1
	Sep 26, 1996	47	47-49	BR1
	Sep 22, 1997	54	54-56	BR1
	Dec 03, 1997	91	90-94	BR1
	Sep 10, 1998	4	4-7	BR2
Longnose Dace	Oct 12, 1994	1	1-2	
	Sep 26, 1996	2	2-4	
	Sep 22, 1997	4	4-6	
	Sep 10, 1998	5	5-7	
Mountain Sucker	Oct 12, 1994	4	4-5	
	Sep 15, 1995	1	1-3	
	Sep 22, 1997	4	4-4	
	Sep 10, 1998	22	22-23	

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Oct 27, 1993	3	3-4	
	Oct 12, 1994	11	11-12	
	Sep 17, 1995	6	6-8	
	Sep 25, 1996	31	31-33	
	Sep 22, 1997	106	105-109	
	Jun 02, 1998	32	32-33	
	Sep 10, 1998	23	23-25	
Brook Trout >=200mm	Oct 12, 1994	2	2-2	BK3
	Sep 17, 1995	2	2-2	BK3
	Jun 02, 1998	5	5-6	BK2
	Sep 10, 1998	4	4-4	BK2
Brown Trout <200mm	Oct 27, 1993	2	2-4	
	Oct 12, 1994	4	4-4	
	Sep 17, 1995	8	8-10	
	Sep 25, 1996	55	53-60	

Brown Trout <200mm	Sep 22, 1997	183	180-188	
	Jun 02, 1998	61	60-64	
	Sep 10, 1998	98	94-104	
Brown Trout >=200mm	Oct 27, 1993	30	30-31	BR3
	Oct 12, 1994	11	11-11	BR2
	Sep 17, 1995	14	14-16	BR2
	Sep 25, 1996	5	5-5	BR2
	Sep 22, 1997	18	18-18	BR2
	Jun 02, 1998	22	22-22	BR1
	Sep 10, 1998	21	21-22	BR1
Hatchery Brown Trout >=200mm	Jun 02, 1998	1	1-1	
	Sep 10, 1998	1	1-1	
Longnose Dace	Oct 27, 1993	1	1-2	
	Oct 12, 1994	5	5-7	
	Sep 17, 1995	3	3-5	
	Sep 25, 1996	24	23-28	

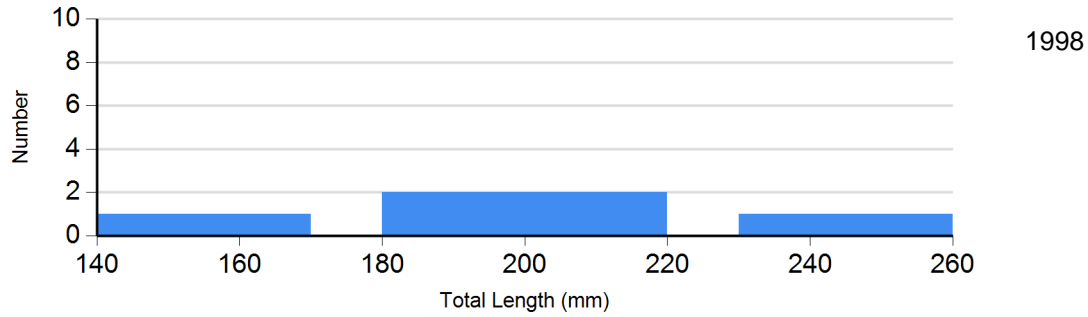
Longnose Dace	Sep 22, 1997	116	67-195
	Jun 02, 1998	56	40-85
	Sep 10, 1998	26	19-44
Mountain Sucker	Oct 27, 1993	8	8-10

Length Frequency Distribution

Length frequency histogram of species sampled by year.

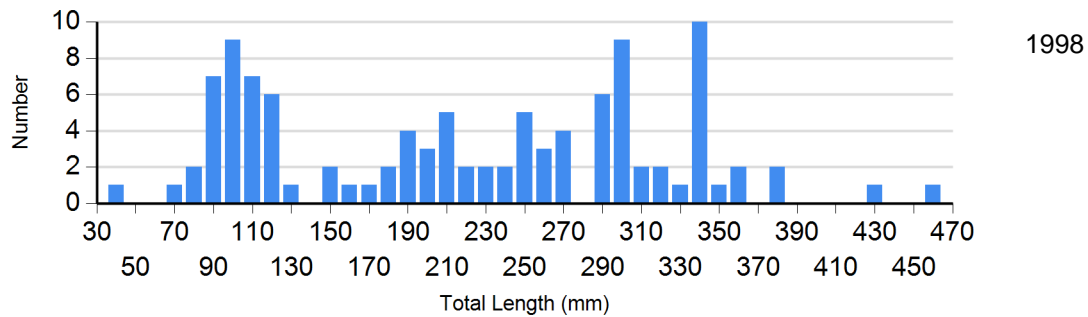
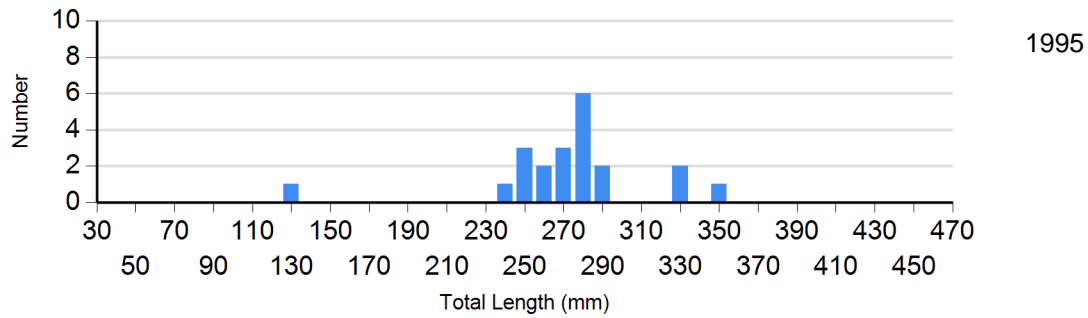
Site: 539

Species: Brook Trout

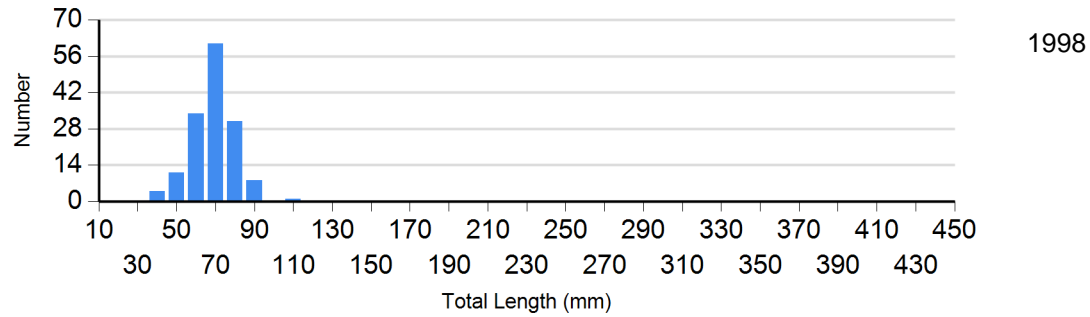
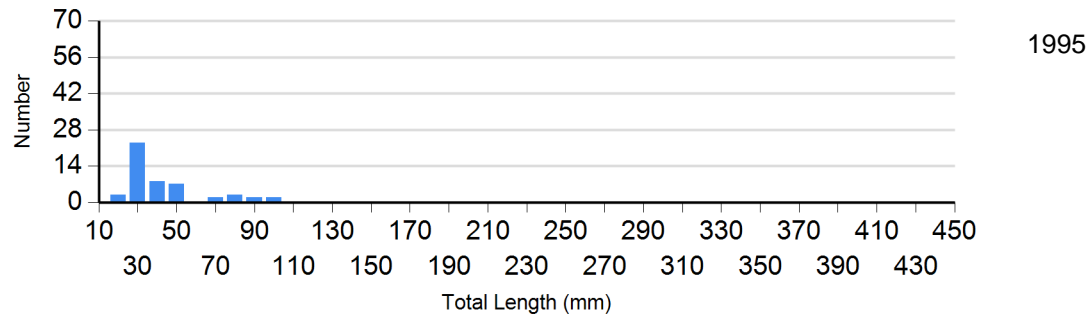


Site: 539

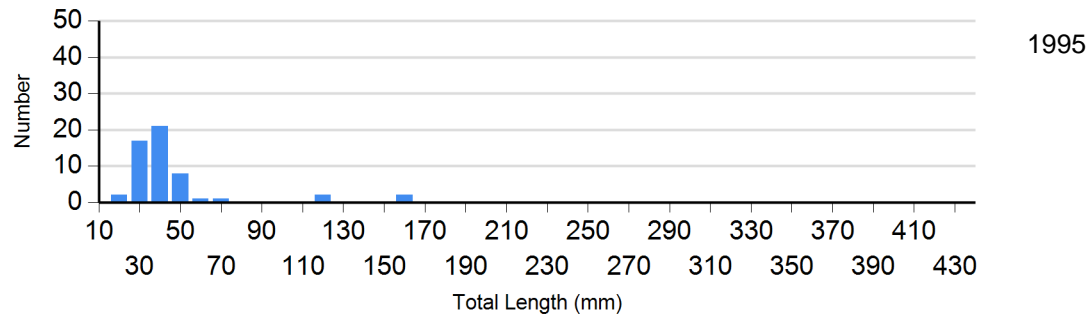
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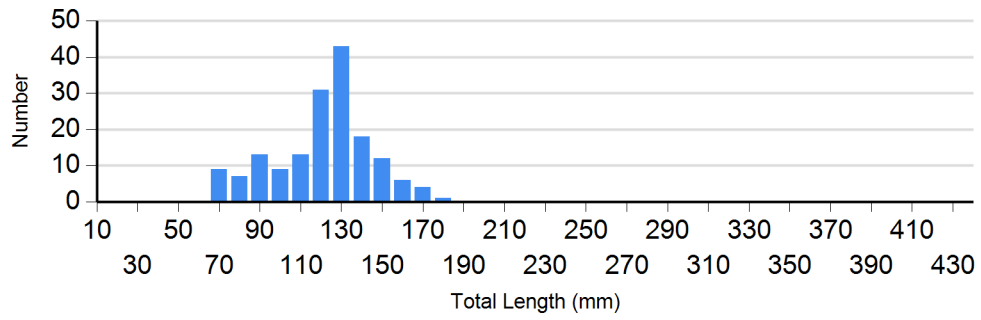


Site: 539
Species: Longnose Dace

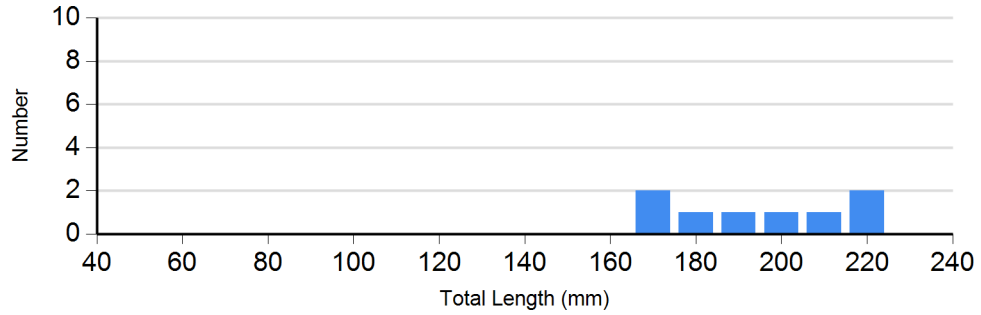


Site: 539
Species: Mountain Sucker

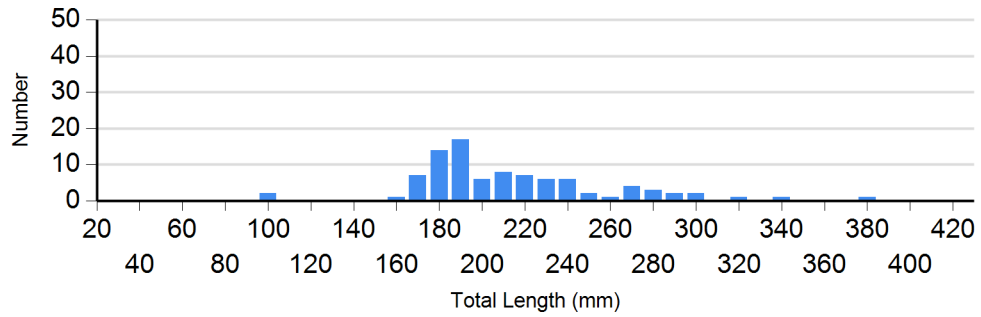


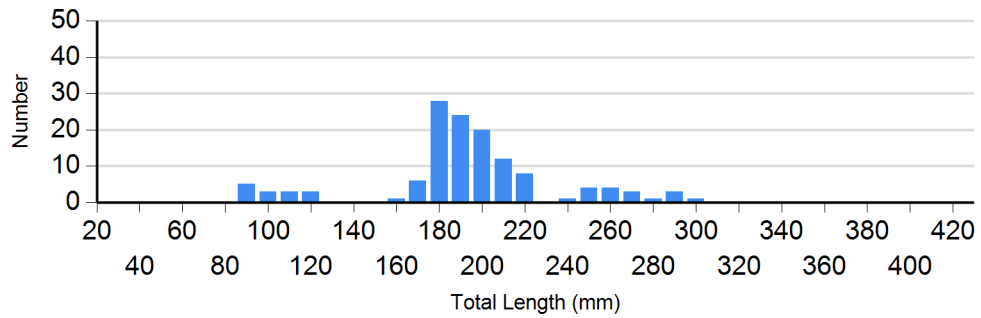
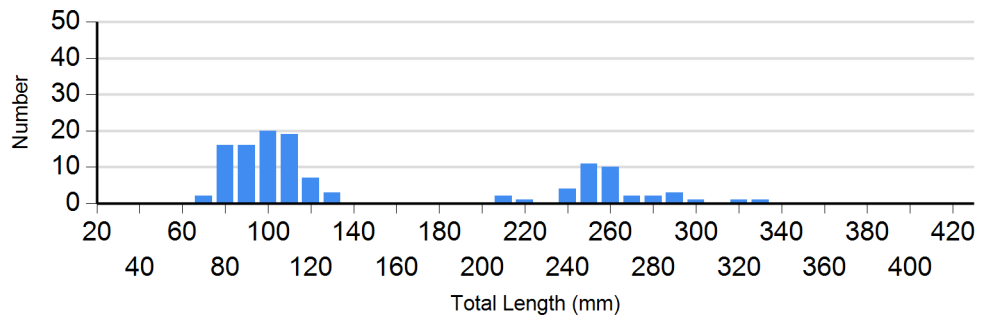
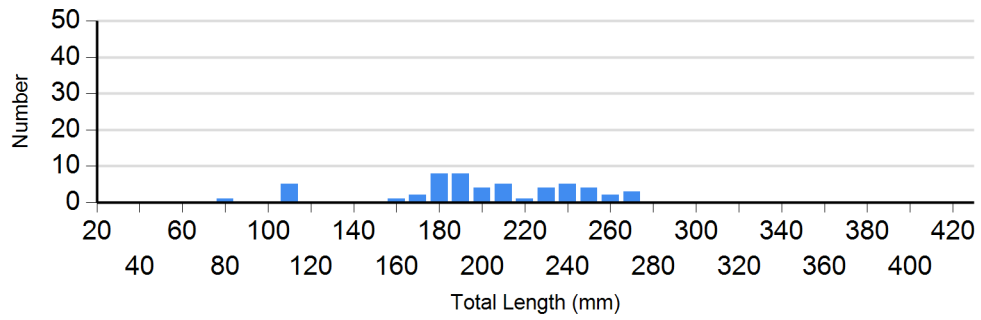
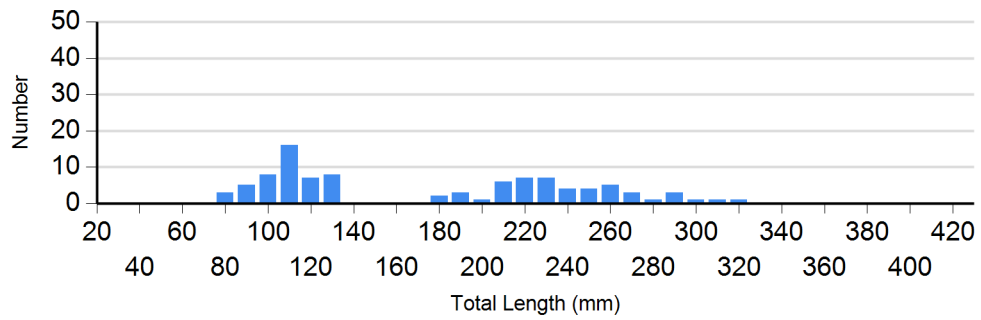


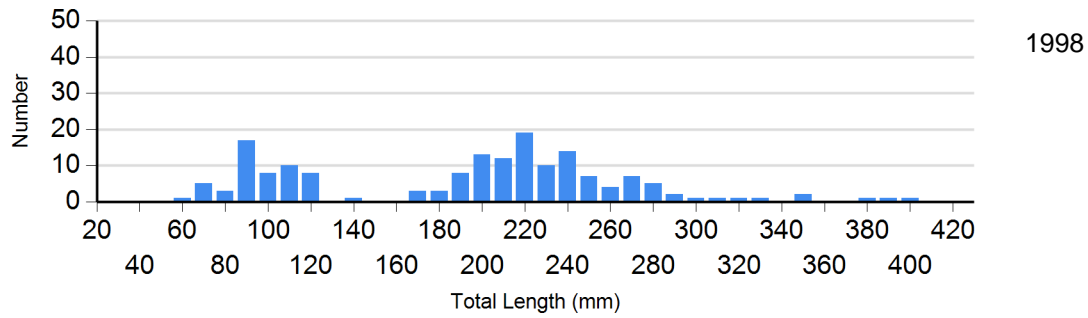
Site: 558
Species: Brook Trout



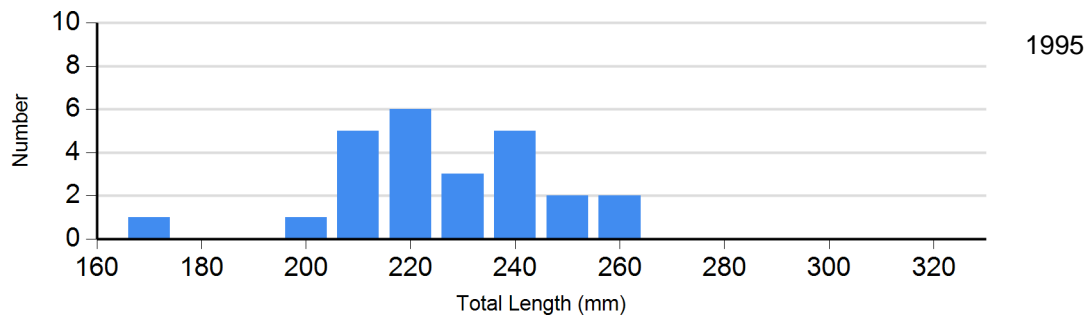
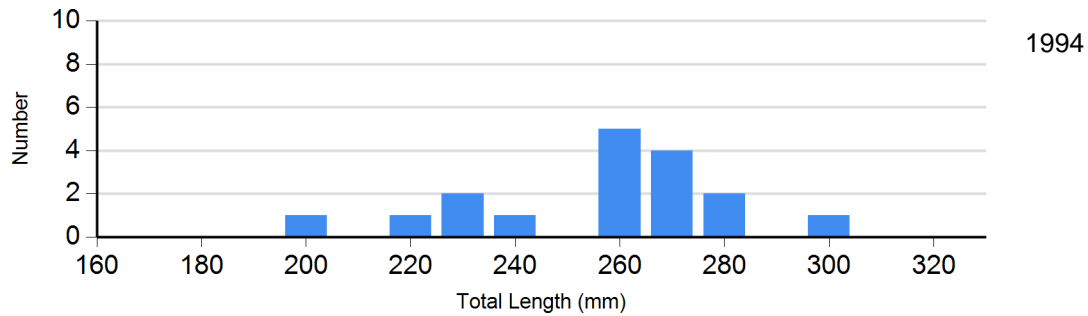
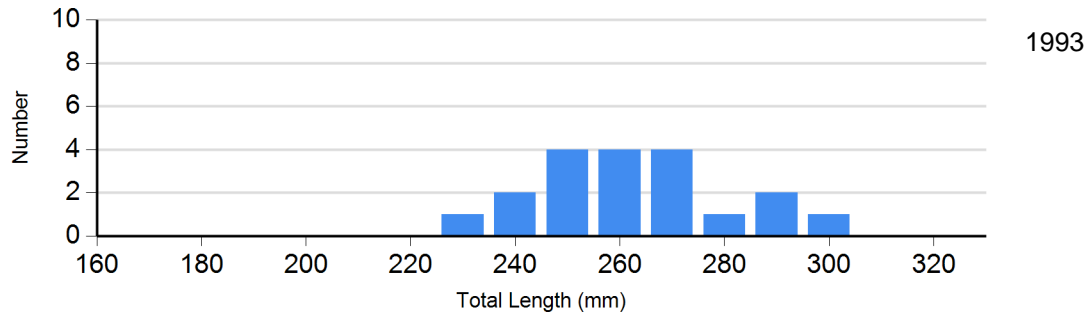
Site: 558
Species: Brown Trout

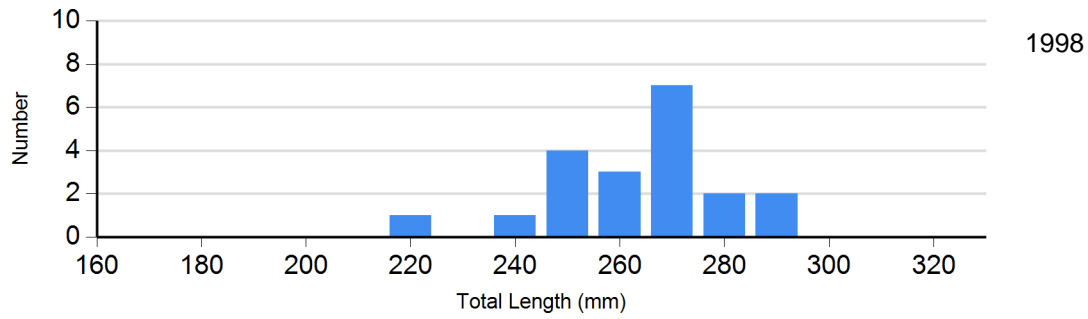
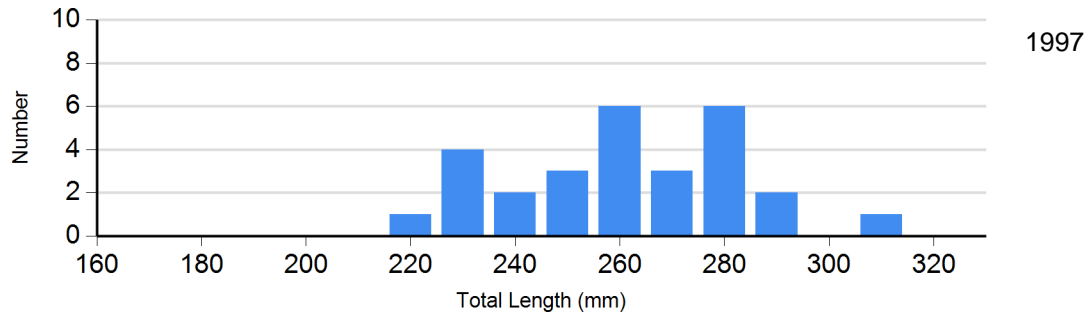
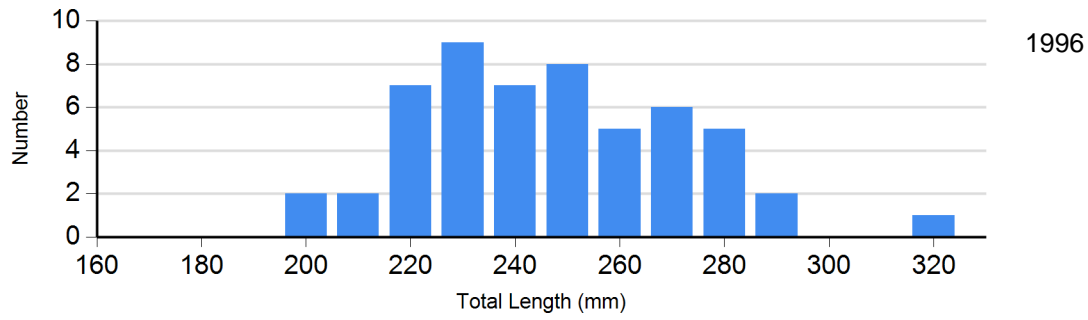




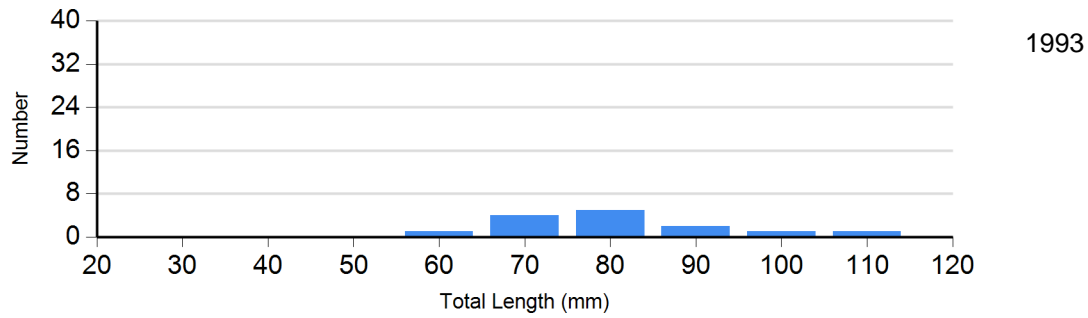


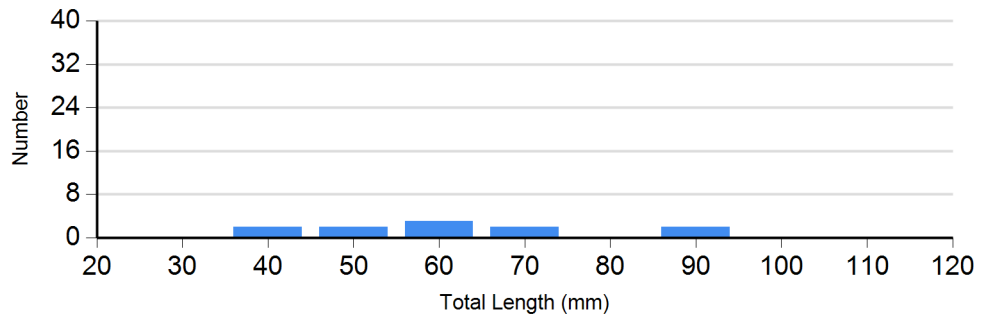
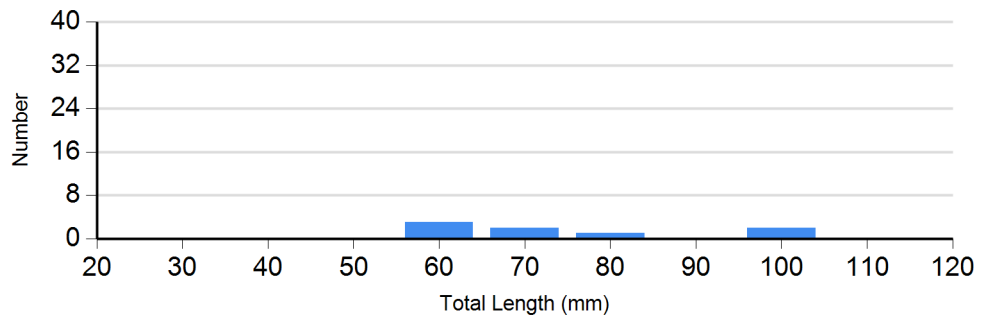
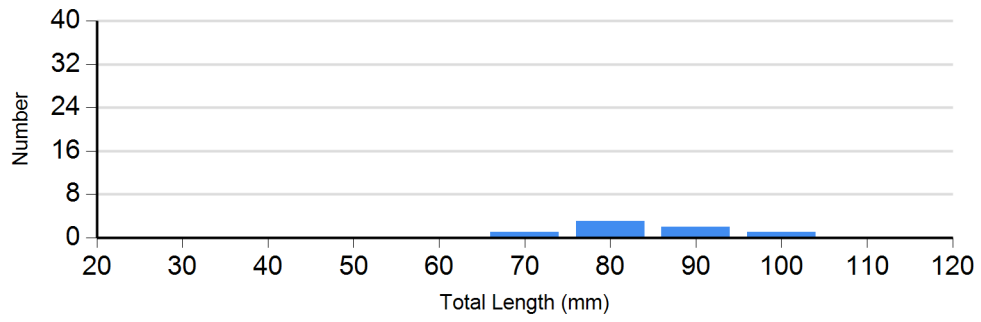
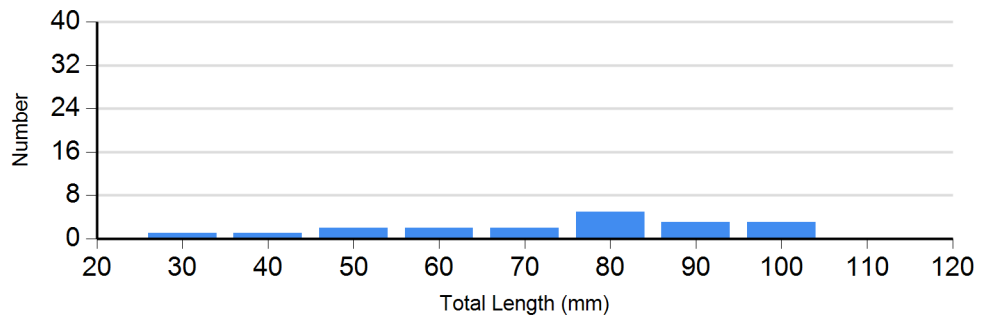
Site: 558
Species: Hatchery Brown Trout

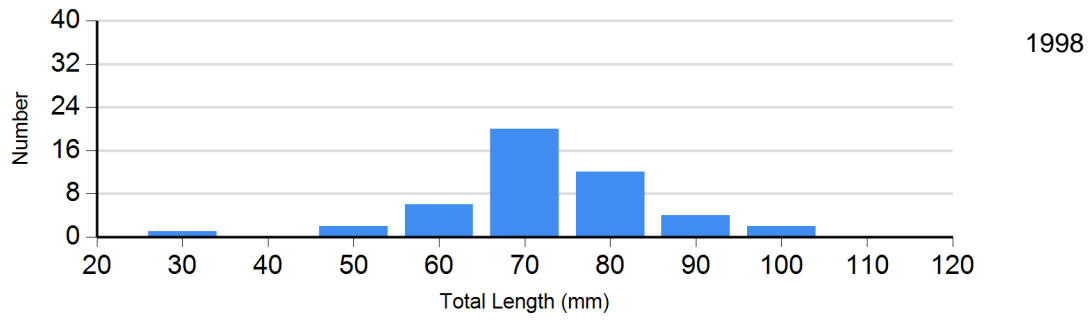




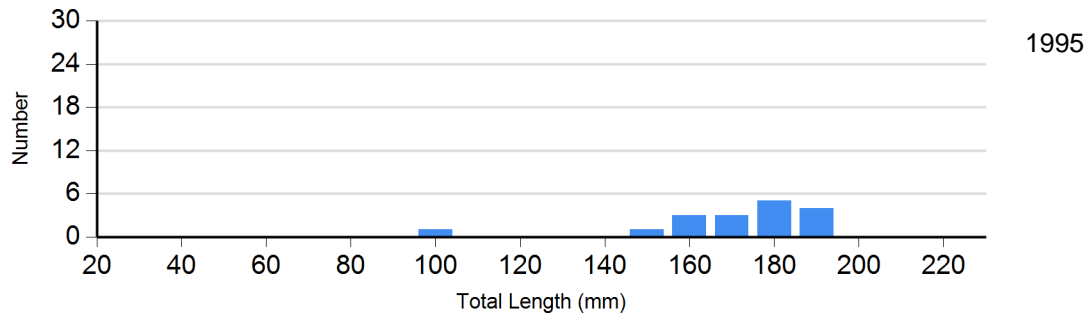
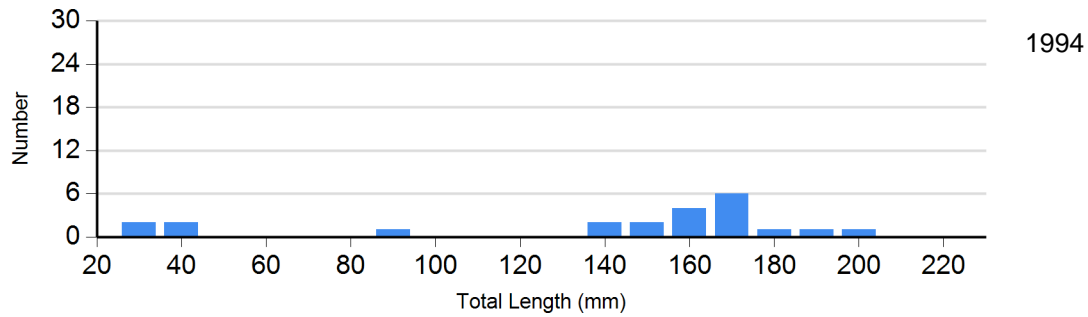
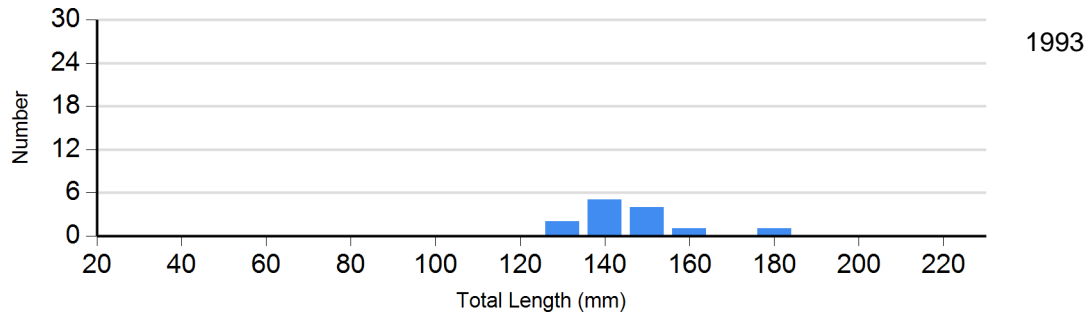
Site: 558
Species: Longnose Dace

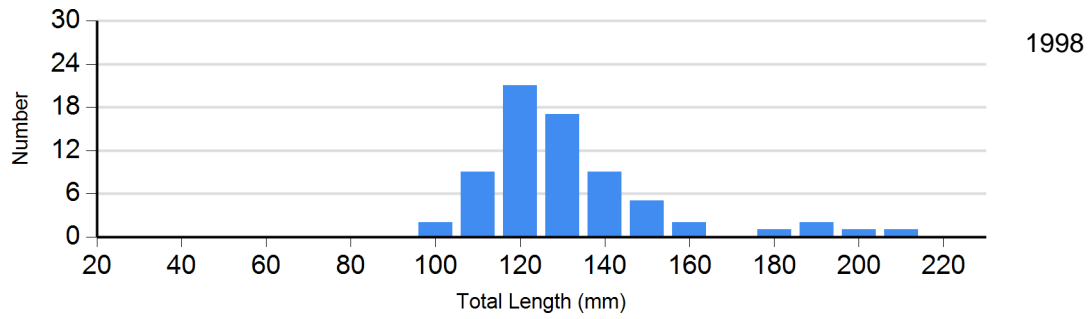
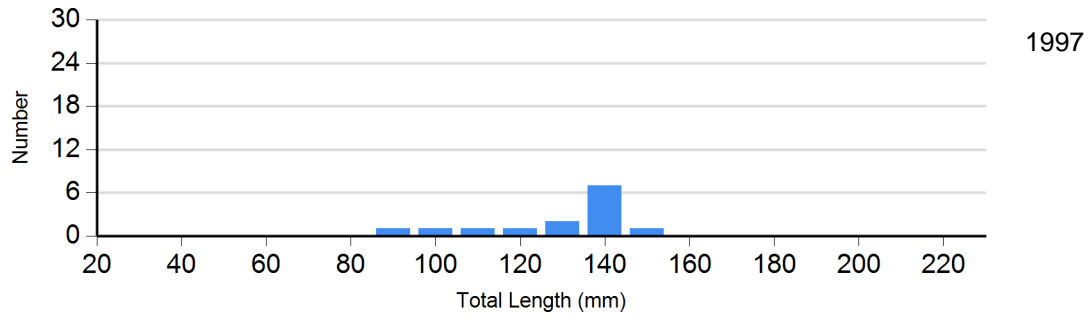
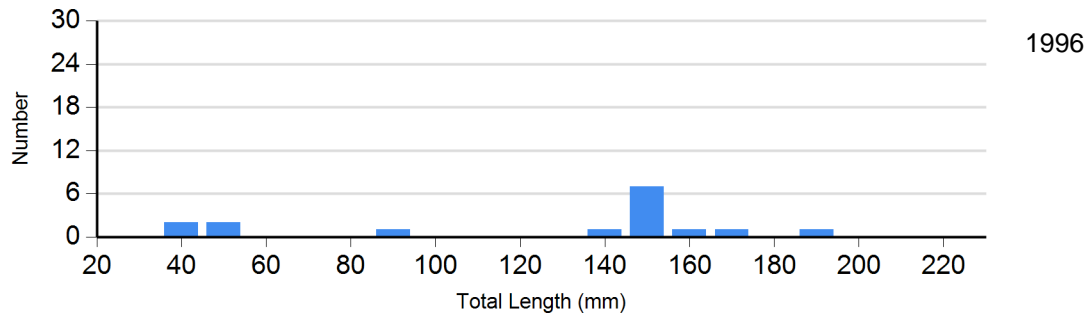




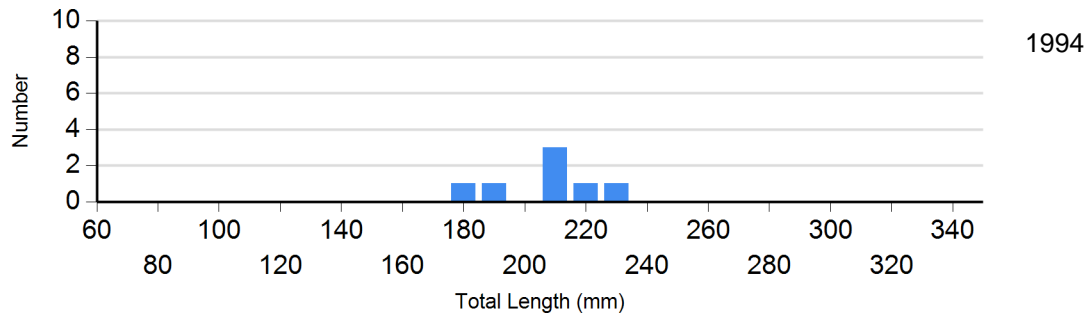


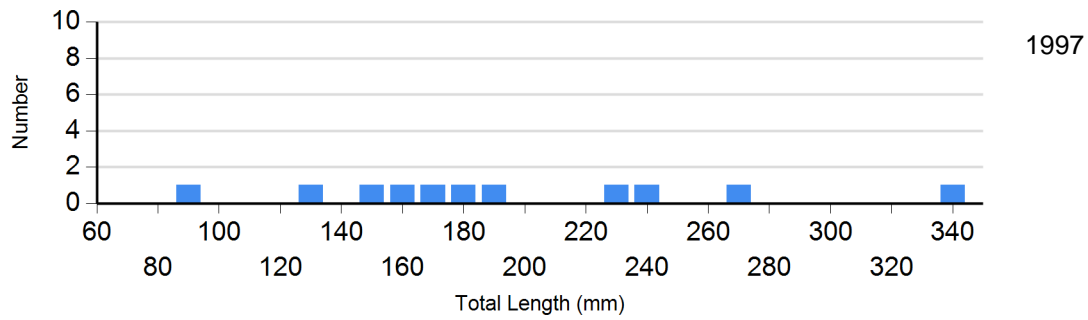
Site: 558
Species: Mountain Sucker



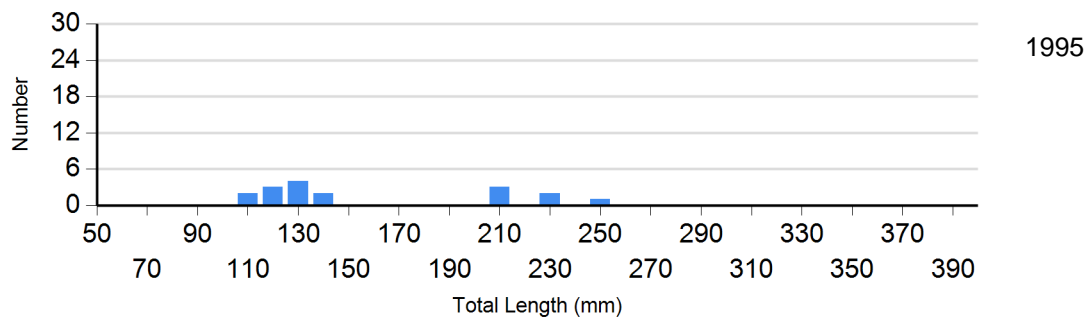
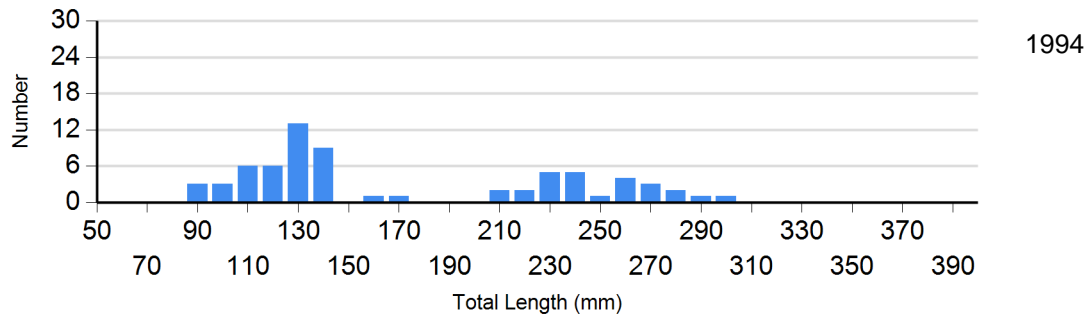
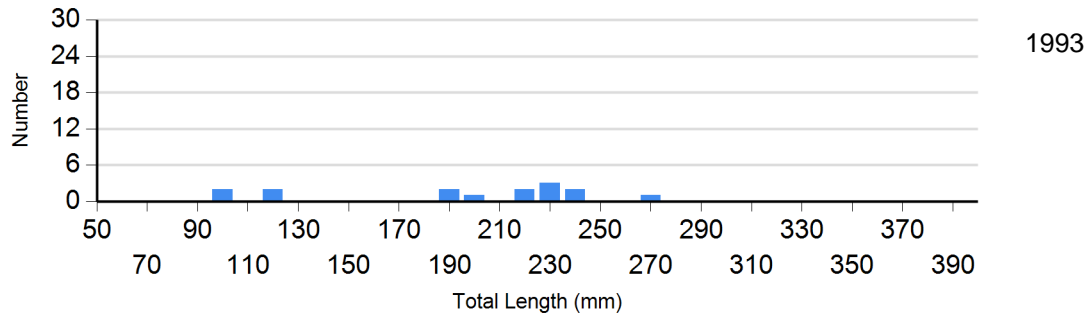


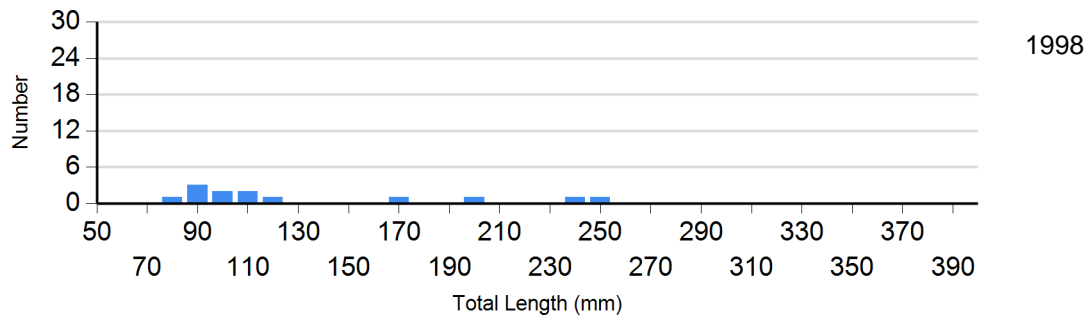
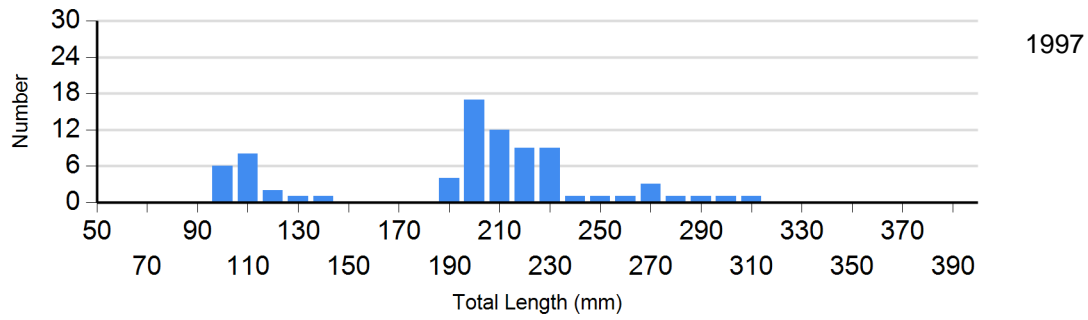
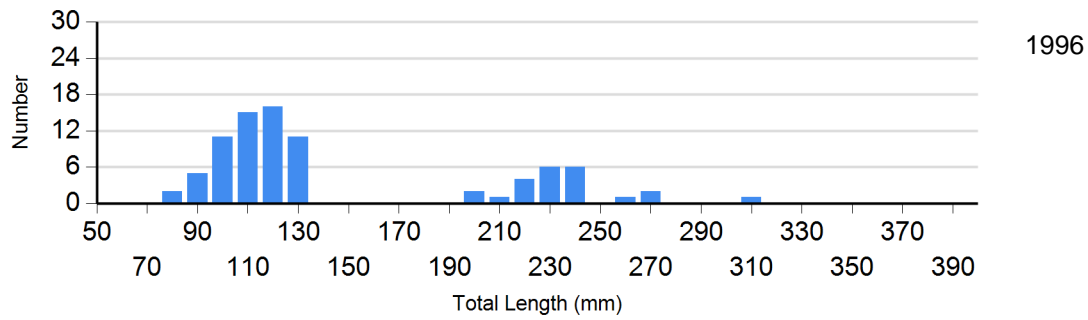
Site: 588
Species: Brook Trout



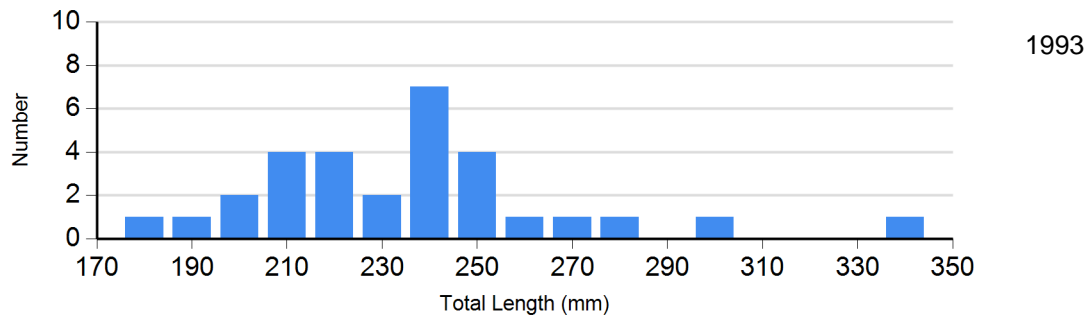


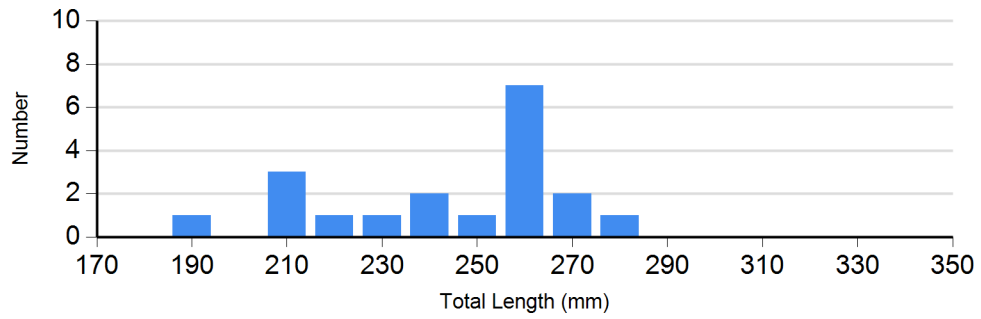
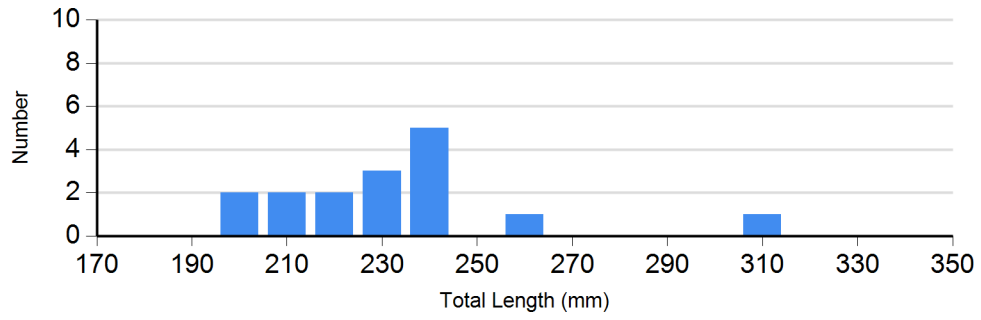
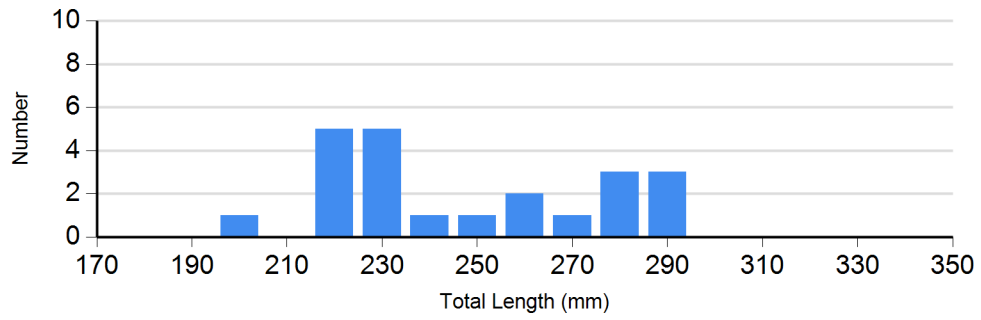
Site: 588
Species: Brown Trout



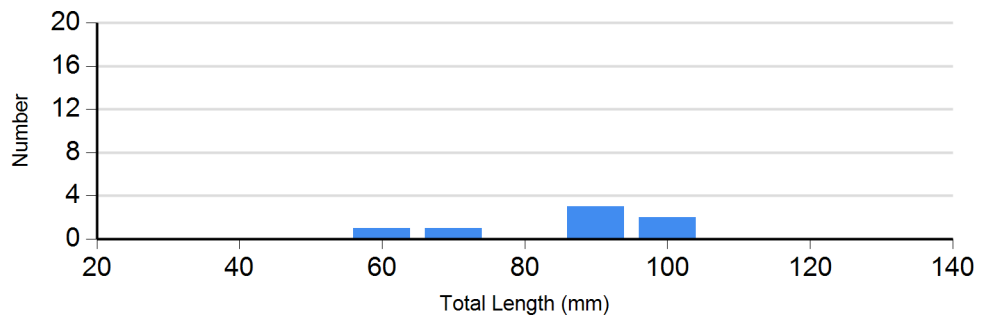


Site: 588
Species: Hatchery Brown Trout

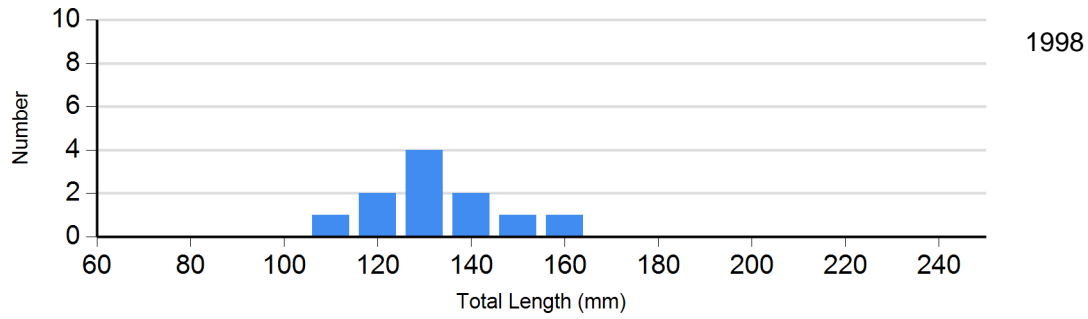
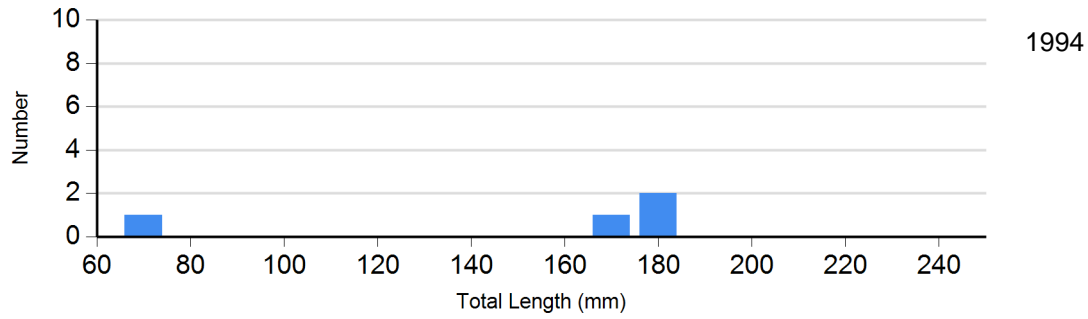




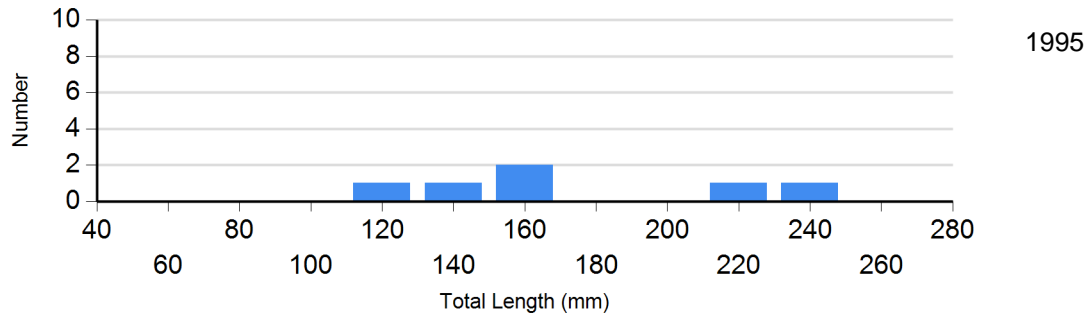
Site: 588
Species: Longnose Dace

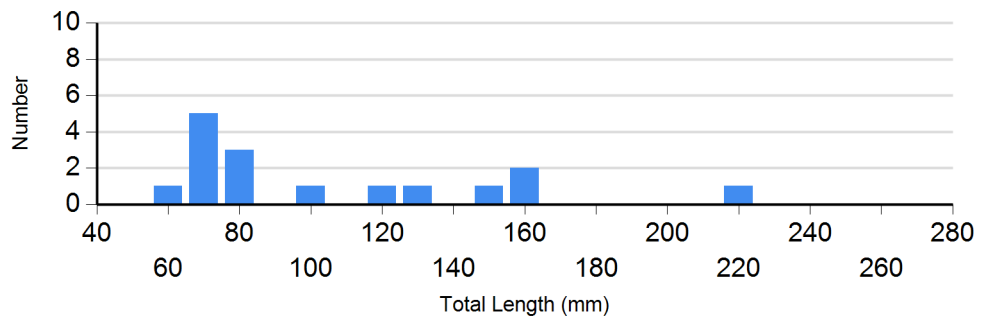
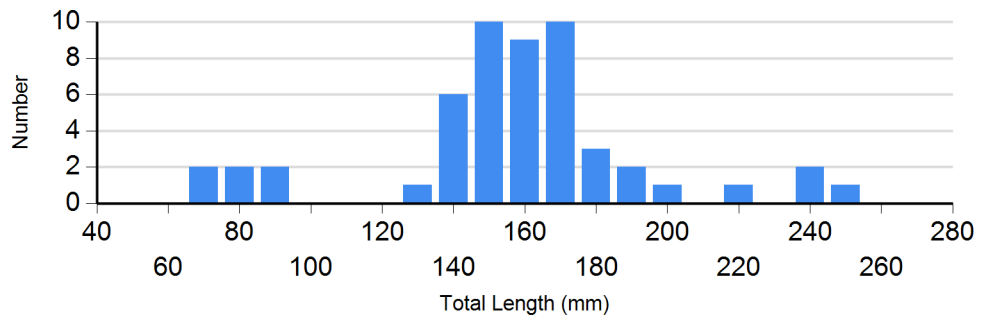
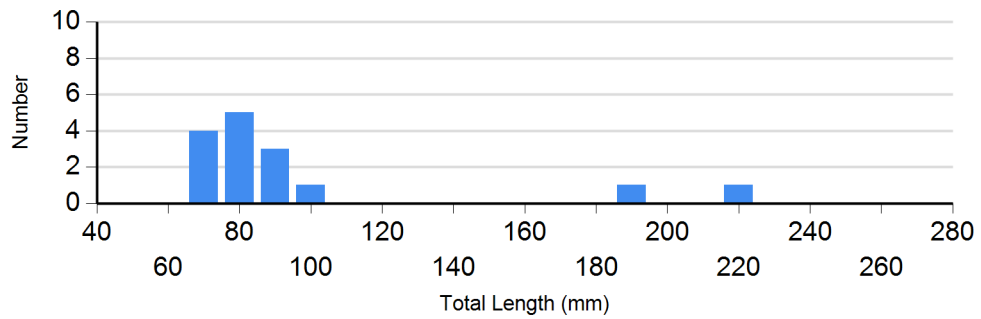


Site: 588
Species: Mountain Sucker

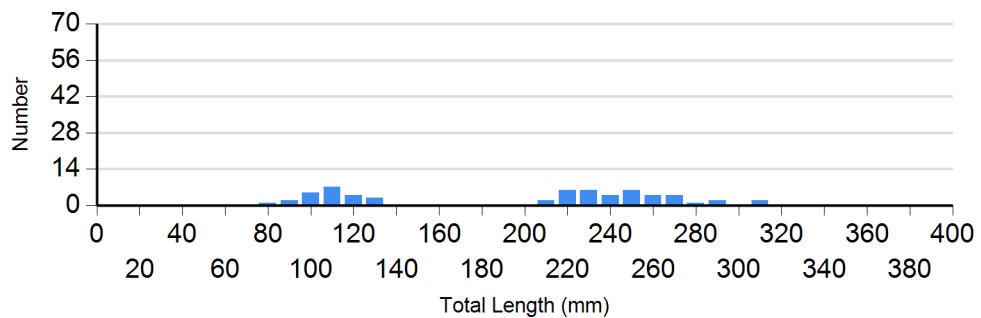


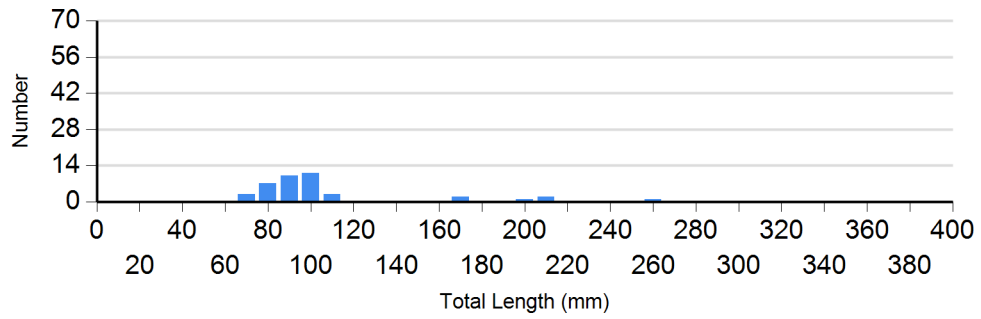
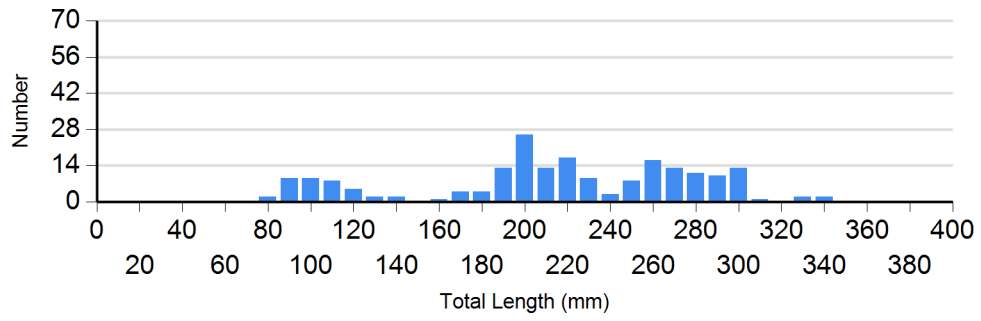
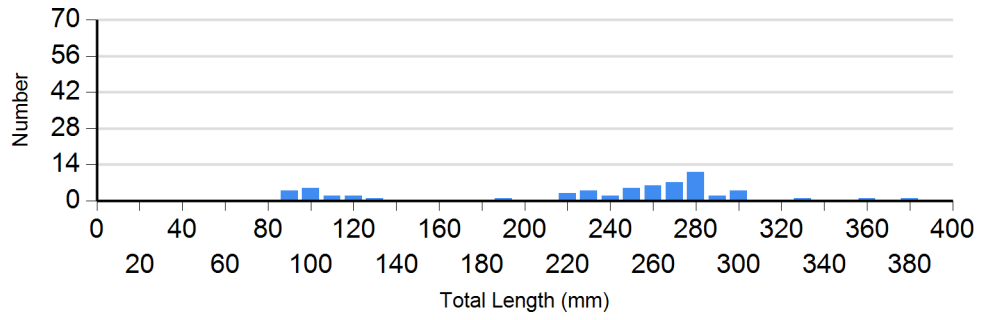
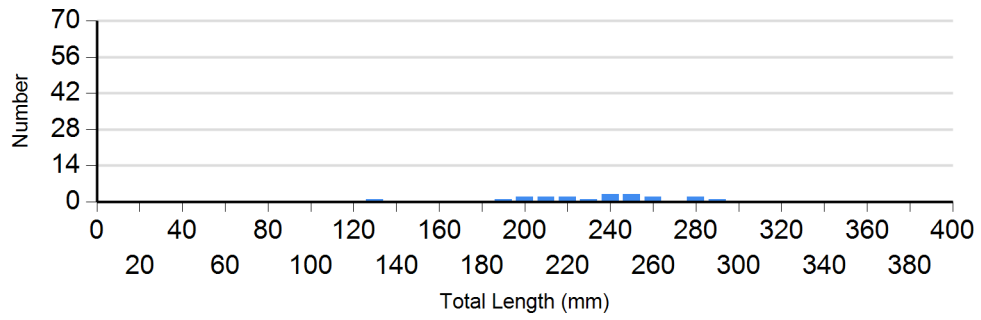
Site: 599
Species: Brook Trout



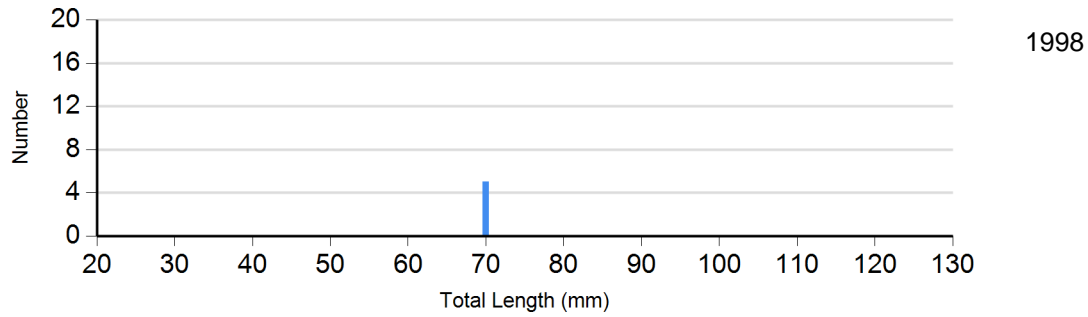
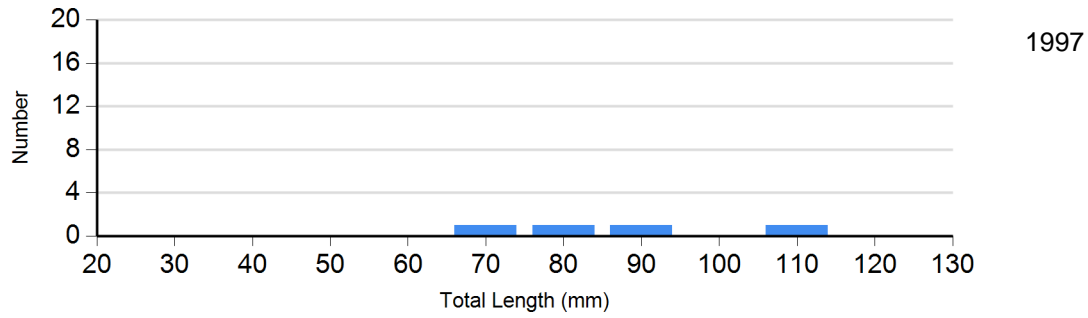


Site: 599
Species: Brown Trout

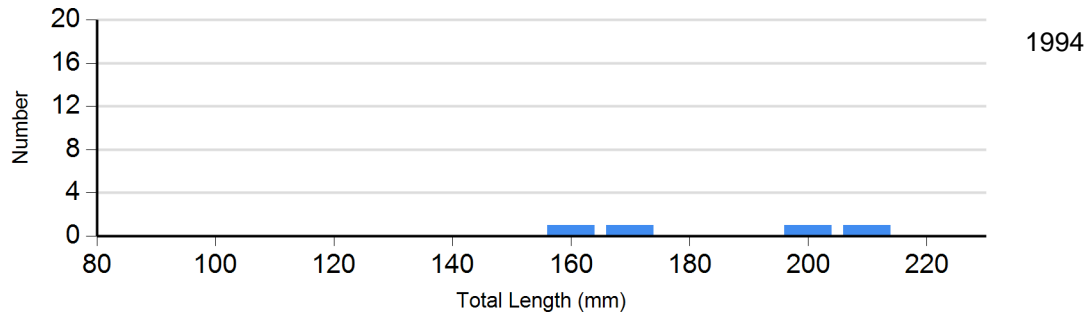


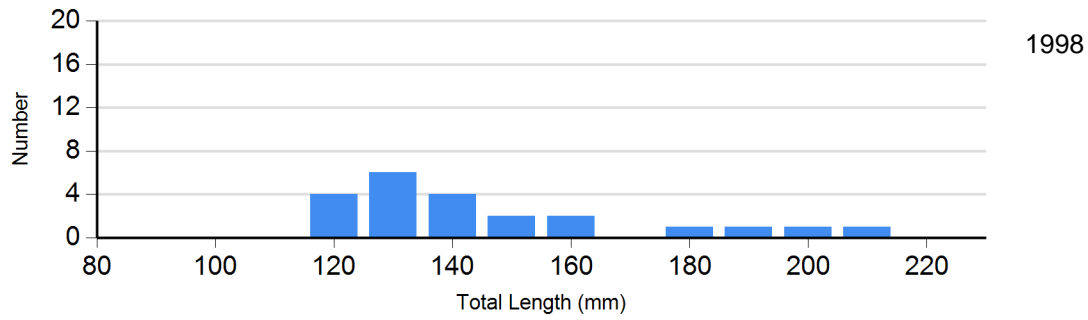
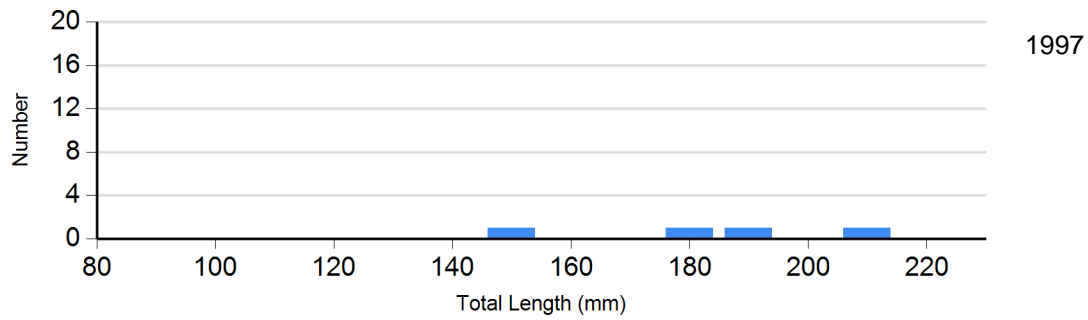


Site: 599
Species: Longnose Dace

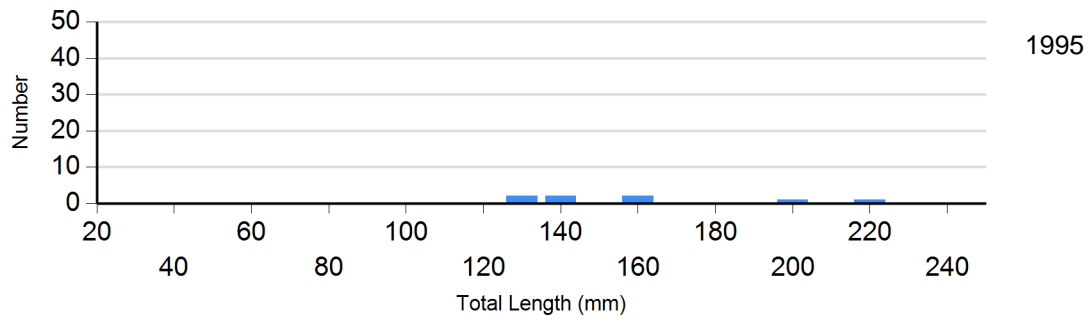
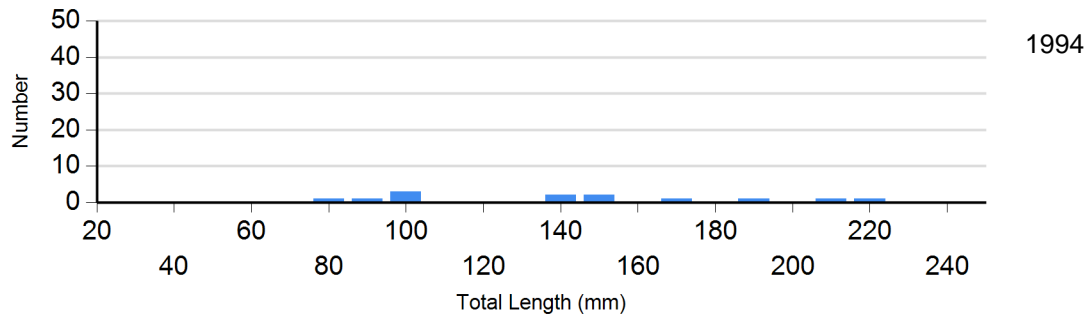


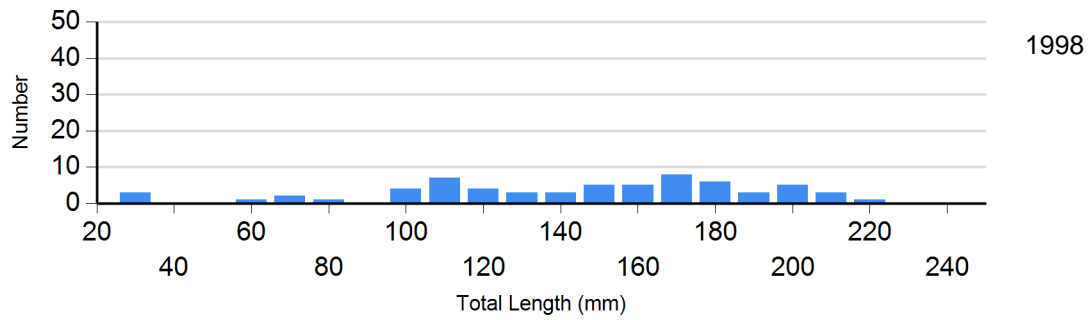
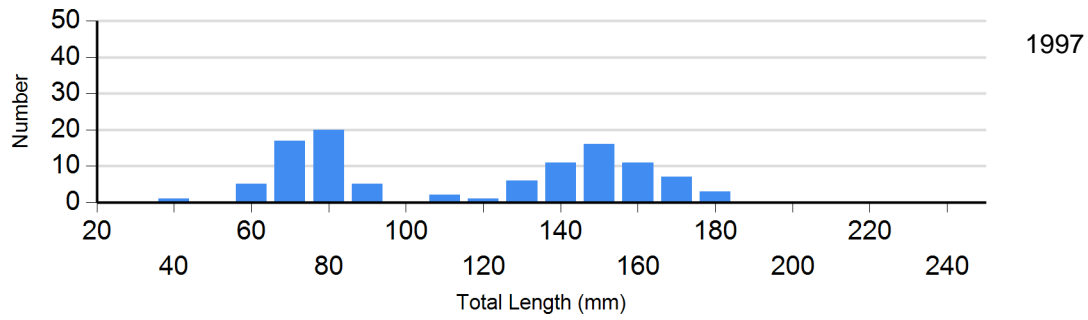
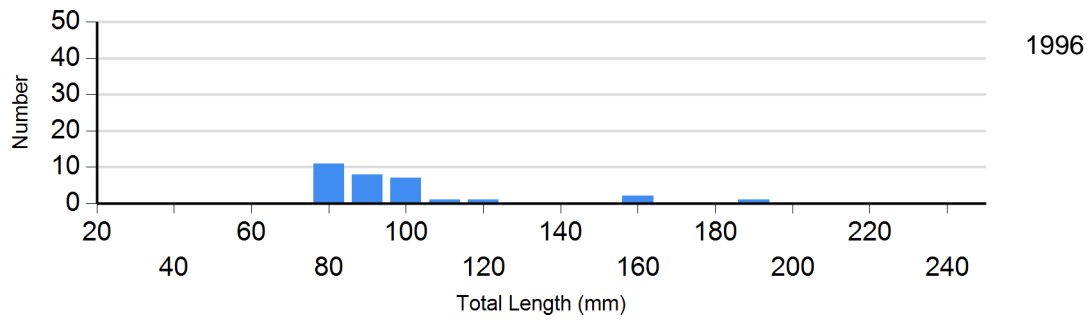
Site: 599
Species: Mountain Sucker



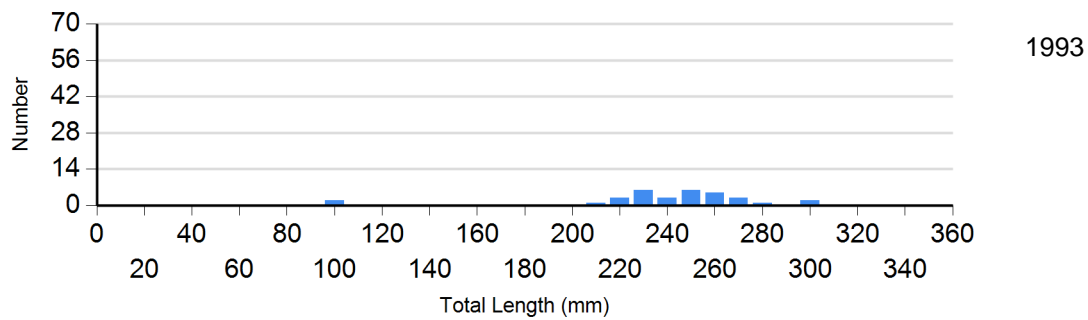


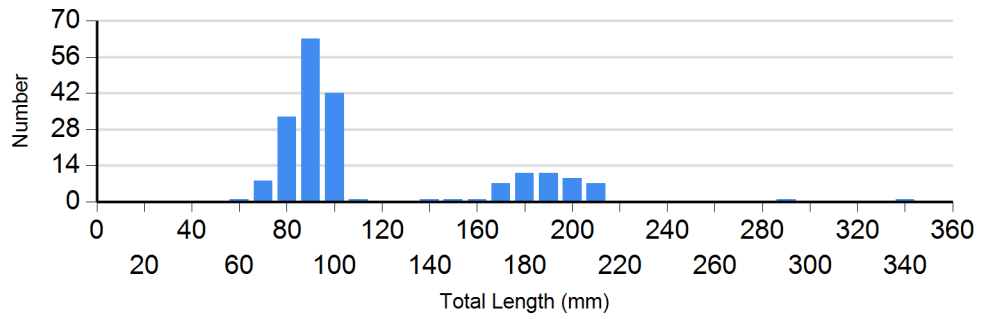
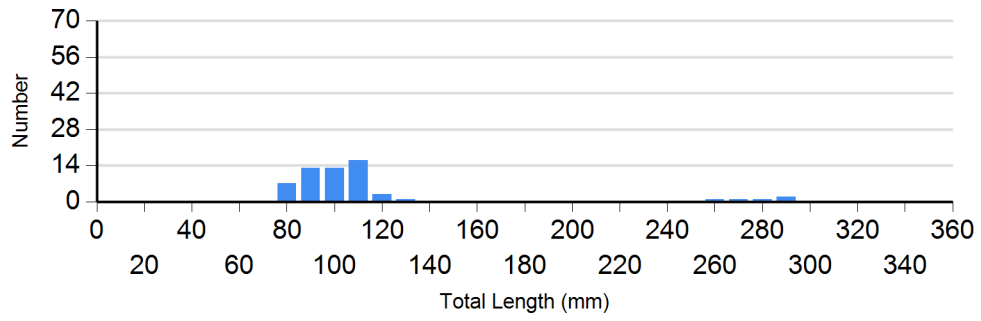
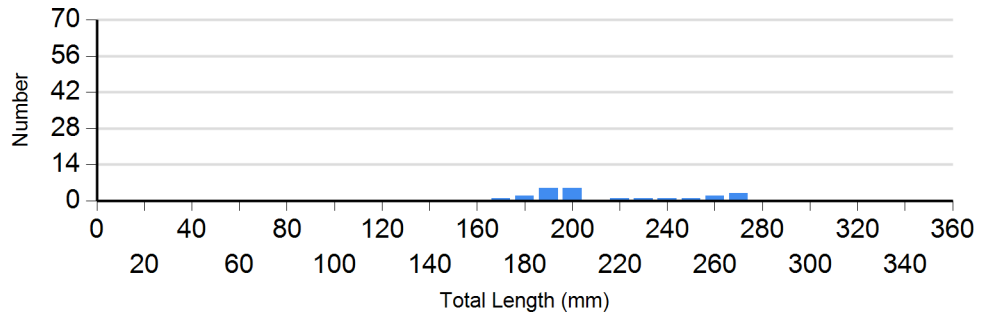
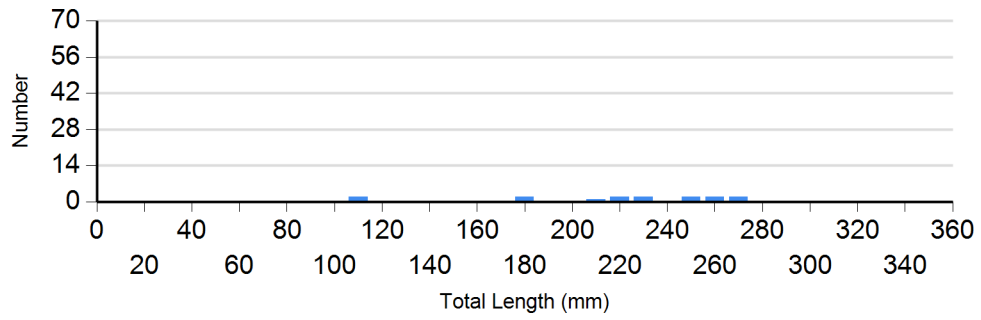
Site: 612
Species: Brook Trout

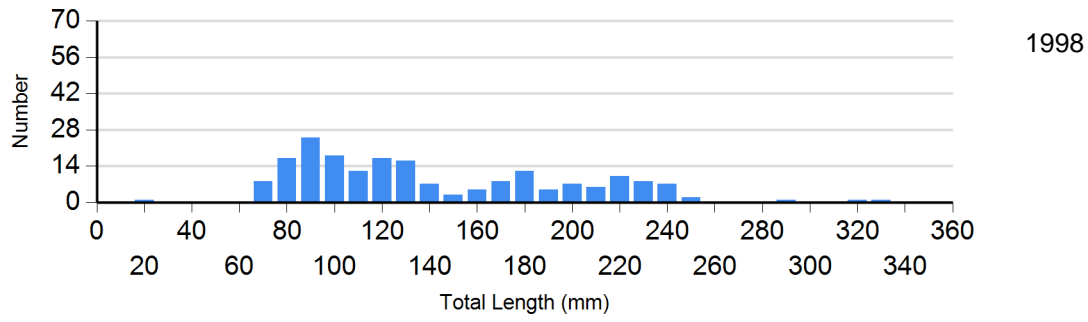




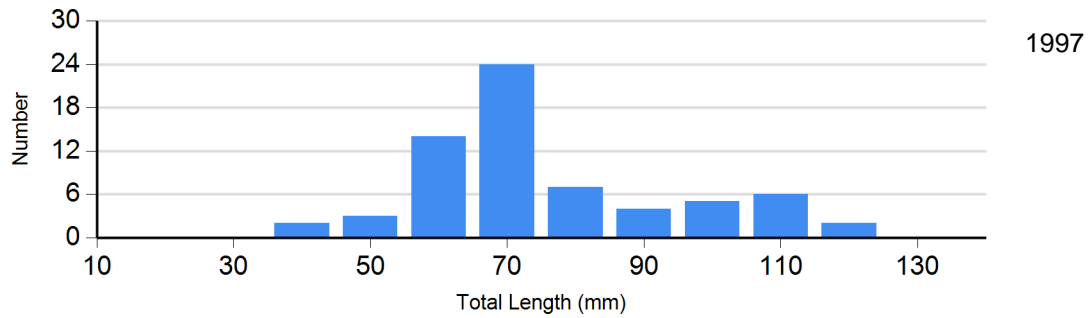
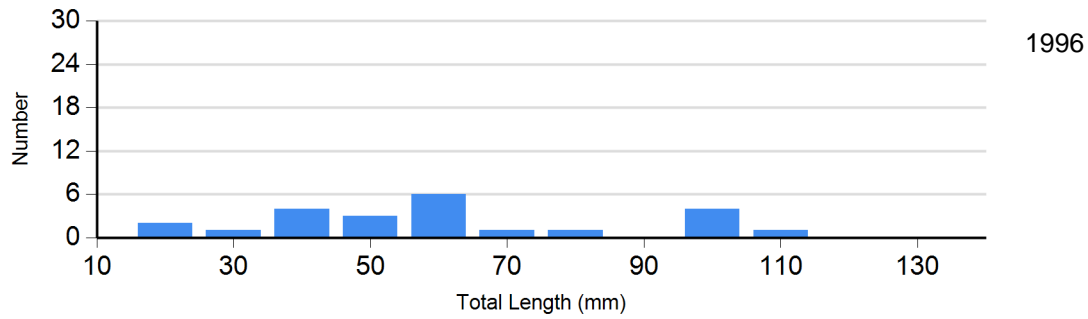
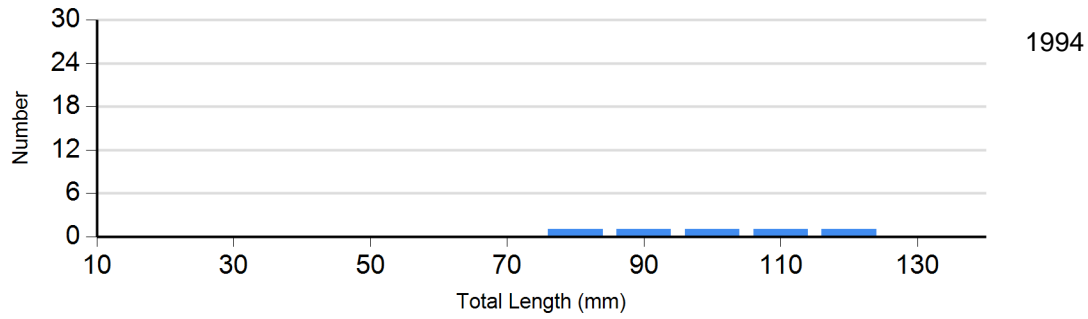
Site: 612
Species: Brown Trout

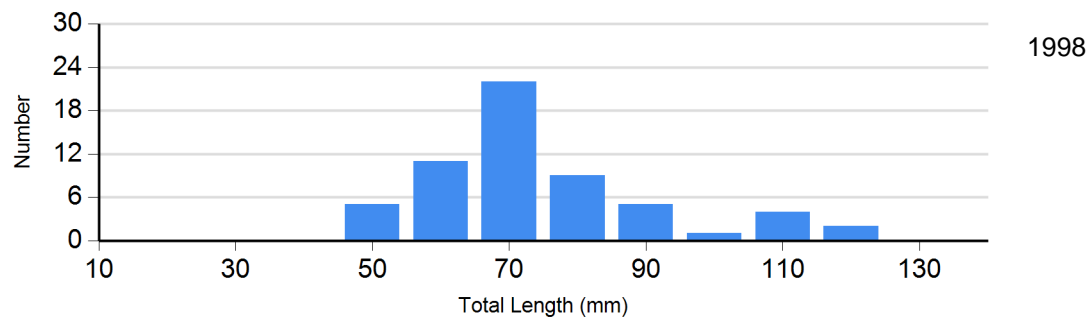






Site: 612
Species: Longnose Dace





Site: 612
Species: Mountain Sucker

