

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Whitewood Creek, Lawrence County
09-0056-00
1996

Table 1. Population and Biomass Estimates for Whitewood Creek

Site Number: 43
Site Midpoint (Latitude, Longitude): 44.62164896, -103.47136669
Survey Completed by: Chadwick Ecological Services
Stream Classification: BR3

Date Sampled: 10/11/1996
Site Length (m):
Mean Width (m): 0.0
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C):
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)
Brown Trout	<200mm	1	1	1	1	0	0	0	0	0.00	0	79.0	5.9
Brown Trout	>=200mm	2	2	2	2	0	0	0	0	0.00	0	338.5	522.5
Brown Trout	All	3	3	3	3	0	0	0	0	0.00	0	252.0	350.3
Longnose Dace	All	3	3	3	3	0	0	0	0	0.00	0	77.3	4.1
White Sucker	All	3	3	3	3	0	0	0	0	0.00	0	221.0	119.7

Site Number: 44
Site Midpoint (Latitude, Longitude): 44.62092026, -103.47188053
Survey Completed by: Chadwick Ecological Services
Stream Classification: None

Date Sampled: 10/09/1996
Site Length (m):
Mean Width (m): 0.0
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C):
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)
Creek Chub	All	1	1	5	1	0	0	0	0	0.00	0	53.0	1.3
Flathead Chub	All	2	2	3	2	0	0	0	0	0.00	0	75.5	3.2
Green Sunfish	All	5	5	7	5	0	0	0	0	0.00	0	83.8	12.8

Longnose Dace	All	3	3	3	3	0	0	0	0	0.00	0	88.7	6.8
PLA?	All	1	1	1	1	0	0	0	0	0.00	0	39.0	0.3
Redhead	All	2	1	2	2	0	0	0	0	0.00	0	33.0	0.2
Stone Cat	All	49	65	91	49	0	0	0	0	0.00	0	123.0	21.6
White Sucker	All	1	1	2	1	0	0	0	0	0.00	0	215.0	114.0

Site Number: 131

Site Midpoint (Latitude, Longitude): 44.58943150, -103.52027768

Survey Completed by: Chadwick Ecological Services

Stream Classification: BR0

Date Sampled: 10/10/1996

Site Length (m):

Mean Width (m): 0.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

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)
Brown Trout	<200mm	1	1	1	1	0	0	0	0	0.00	0	104.0	10.5
Brown Trout	All	1	1	1	1	0	0	0	0	0.00	0	104.0	10.5
Creek Chub	All	1	1	1	1	0	0	0	0	0.00	0	211.0	74.0
Longnose Dace	All	3	3	3	3	0	0	0	0	0.00	0	87.0	5.3
White Sucker	All	21	22	26	21	0	0	0	0	0.00	0	111.9	25.0

Site Number: 295

Site Midpoint (Latitude, Longitude): 44.51740810, -103.60458517

Survey Completed by: Chadwick Ecological Services

Stream Classification: BR0

Date Sampled: 10/11/1996

Site Length (m):

Mean Width (m): 0.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

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)
Brown Trout	<200mm	5	5	6	5	0	0	0	0	0.00	0	113.6	15.6

Brown Trout	All	5	5	6	5	0	0	0	0	0.00	0	113.6	15.6
Longnose Dace	All	3	2	4	3	0	0	0	0	0.00	0	84.0	5.6
Mountain Sucker	All	8	8	9	8	0	0	0	0	0.00	0	91.0	13.0
White Sucker	All	1	1	1	1	0	0	0	0	0.00	0	55.0	1.3

Site Number: 558

Date Sampled: 09/23/1996

Conductivity (umhos/cm): 830

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

Site Length (m): 100

pH: 8.4

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 6.5

Water Temperature (C): 12.0

Stream Classification: BK0, BR1

Number of Pass: 3

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	1	1	2	1	15	0	10	6	0.08	16	81.0	6.0
Brook Trout	All	1	1	2	1	15	0	10	6	0.08	16	81.0	6.0
Brown Trout	<200mm	83	101	122	83	1549	17	1010	627	15.51	1625	102.7	11.2
Brown Trout	>=200mm	38	38	39	38	583	111	380	236	99.04	611	264.4	190.3
Brown Trout	All	121	130	140	121	1994	135	1300	808	120.10	2092	153.5	67.5
Hatchery Brown Trout	>=200mm	54	54	55	54	828	134	540	335	119.48	869	250.9	161.6
Hatchery Brown Trout	All	54	54	55	54	828	134	540	335	119.48	869	250.9	161.6
Longnose Dace	All	8	8	9	8	123	1	80	50	0.53	129	76.8	4.9
Mountain Sucker	All	16	19	28	16	291	10	190	118	8.88	306	129.0	34.1

Site Number: 588

Date Sampled: 09/23/1996

Conductivity (umhos/cm): 1000

Site Midpoint (Latitude, Longitude): 44.36654564, -103.73424434

Site Length (m): 100

pH: 8.5

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 4.8

Water Temperature (C): 16.0

Stream Classification: BR1

Number of Pass: 3

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)
Brown Trout	<200mm	60	116	221	60	2437	44	1160	987	38.84	1866	116.8	17.9
Brown Trout	>=200mm	23	23	24	23	483	72	230	196	64.40	370	240.4	149.3
Brown Trout	All	83	106	134	83	2227	121	1060	902	107.90	1706	151.1	54.3
Hatchery Brown Trout	<200mm	1	1	2	1	21	2	10	9	1.39	16	191.0	74.0
Hatchery Brown Trout	>=200mm	18	18	19	18	378	63	180	153	56.46	290	252.1	167.2
Hatchery Brown Trout	All	19	19	20	19	399	65	190	162	57.85	306	248.8	162.3
Longnose Dace	All	7	7	9	7	147	1	70	60	0.98	113	90.0	7.4
Mountain Sucker	All	3	3	4	3	63	6	30	26	5.01	48	184.0	89.0

Site Number: 599

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

Survey Completed by: OEA Research Inc.

Stream Classification: BK3, BR1

Date Sampled: 09/26/1996

Site Length (m): 100

Mean Width (m): 4.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 4.0

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	14	17	27	14	425	5	170	172	4.47	274	93.8	11.8
Brook Trout	>=200mm	1	1	1	1	25	3	10	10	2.86	16	228.0	128.0
Brook Trout	All	15	18	27	15	450	9	180	182	7.85	290	102.7	19.5
Brown Trout	<200mm	15	15	17	15	375	7	150	152	6.52	241	115.2	19.5
Brown Trout	>=200mm	47	47	49	47	1175	287	470	476	256.01	756	274.6	244.0
Brown Trout	All	62	63	66	62	1575	299	630	638	266.76	1014	236.0	189.7
Longnose Dace	All	2	2	4	2	50	0	20	20	0.11	32	70.5	2.5

White Sucker All 1 1 1 1 25 4 10 10 3.19 16 213.0 143.0

Site Number: 612

Site Midpoint (Latitude, Longitude): 44.35478049, -103.73811696

Survey Completed by: OEA Research Inc.

Stream Classification: BK0, BR2

Date Sampled: 09/25/1996

Site Length (m): 100

Mean Width (m): 5.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 4.0

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	31	31	33	31	620	8	310	251	6.73	499	102.0	12.2
Brook Trout	All	31	31	33	31	620	8	310	251	6.73	499	102.0	12.2
Brown Trout	<200mm	53	55	60	53	1100	15	550	446	12.99	885	104.4	13.2
Brown Trout	>=200mm	5	5	5	5	100	30	50	41	26.41	80	282.0	295.8
Brown Trout	All	59	61	65	59	1220	45	610	494	40.38	981	119.7	37.1
Longnose Dace	All	23	24	28	23	480	2	240	194	2.10	386	67.0	4.9

Site Number: 679

Site Midpoint (Latitude, Longitude): 44.32613292, -103.76630646

Survey Completed by: OEA Research Inc.

Stream Classification: BK3, BR3

Date Sampled: 09/27/1996

Site Length (m): 100

Mean Width (m): 0.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

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	263	275	285	265	0	0	2750	0	0.00	4425	96.1	15.6
Brook Trout	>=200mm	25	25	26	25	0	0	250	0	0.00	402	214.3	102.8
Brook Trout	All	288	299	309	289	0	0	2990	0	0.00	4811	106.3	23.2
Brown Trout	<200mm	7	7	9	7	0	0	70	0	0.00	113	78.6	5.0
Brown Trout	>=200mm	4	4	4	4	0	0	40	0	0.00	64	254.5	178.8

Brown Trout All 11 11 13 11 0 0 110 0 0.00 177 142.5 68.2

Site Number: 690

Date Sampled: 09/26/1996

Conductivity (umhos/cm):

Site Midpoint (Latitude, Longitude): 44.31971358, -103.76779760

Site Length (m): 100

pH:

Survey Completed by: OEA Research Inc.

Mean Width (m): 0.0

Water Temperature (C):

Stream Classification: BK3, BR3

Number of Pass: 3

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	166	175	184	166	0	0	1750	0	0.00	2816	102.7	17.2
Brook Trout	>=200mm	16	16	17	16	0	0	160	0	0.00	257	216.6	110.1
Brook Trout	All	182	190	198	182	0	0	1900	0	0.00	3057	112.7	25.4
Brown Trout	<200mm	27	27	29	27	0	0	270	0	0.00	434	82.7	7.1
Brown Trout	>=200mm	42	42	43	42	0	0	420	0	0.00	676	244.0	163.6
Brown Trout	All	70	70	72	70	0	0	700	0	0.00	1126	180.9	101.0
Longnose Dace	All	2	1	2	2	0	0	10	0	0.00	16	101.5	14.5

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, 1986-1996

Site 43

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Oct 11, 1996	1	1-1	
Brown Trout >=200mm	Oct 11, 1996	2	2-2	BR3
Longnose Dace	Oct 11, 1996	3	3-3	
White Sucker	Oct 11, 1996	3	3-3	

Site 44

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Creek Chub	Oct 09, 1996	1	1-5	
Flathead Chub	Oct 09, 1996	2	2-3	

Green Sunfish	Oct 09, 1996	5	5-7
Longnose Dace	Oct 09, 1996	3	3-3
PLA?	Oct 09, 1996	1	1-1
Redhead	Oct 09, 1996	1	2-2
Stone Cat	Oct 09, 1996	65	49-91
White Sucker	Oct 09, 1996	1	1-2

Site 131

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Oct 10, 1996	1	1-1	
Creek Chub	Oct 10, 1996	1	1-1	
Longnose Dace	Oct 10, 1996	3	3-3	
White Sucker	Oct 10, 1996	22	21-26	

Site 295

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Oct 11, 1996	5	5-6	
Longnose Dace	Oct 11, 1996	2	3-4	
Mountain Sucker	Oct 11, 1996	8	8-9	

White Sucker

Oct 11, 1996

1

1-1

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	
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	
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
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
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
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
White Sucker	Oct 03, 1992	1	1-1

White Sucker

Sep 27, 1994

1

1-2

Site 588

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 27, 1994	2	2-3	
Brook Trout >=200mm	Sep 27, 1994	5	5-6	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	
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
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
Longnose Dace	Feb 02, 1993	3	3-4
	Sep 07, 1995	1	1-1
	Sep 23, 1996	7	7-9
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

Site 599

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Oct 12, 1994	1	1-1	
	Sep 15, 1995	4	4-5	
	Sep 26, 1996	17	14-27	
Brook Trout ≥200mm	Sep 15, 1995	2	2-2	BK3

Brook Trout >=200mm	Sep 26, 1996	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	
Brown Trout >=200mm	Oct 12, 1994	37	37-38	BR1
	Sep 15, 1995	18	18-20	BR1
	Sep 26, 1996	47	47-49	BR1
Longnose Dace	Oct 12, 1994	1	1-2	
	Sep 26, 1996	2	2-4	
Mountain Sucker	Oct 12, 1994	4	4-5	
	Sep 15, 1995	1	1-3	
White Sucker	Sep 26, 1996	1	1-1	

Site 612

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	

Brook Trout <200mm	Sep 17, 1995	6	6-8	
	Sep 25, 1996	31	31-33	
Brook Trout >=200mm	Oct 12, 1994	2	2-2	BK3
	Sep 17, 1995	2	2-2	BK3
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	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
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	

Mountain Sucker

Oct 27, 1993

8

8-10

Site 679

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 07, 1995	33	33-33	
	Jun 19, 1995	90	67-121	
	Sep 27, 1996	275	265-285	
Brook Trout >=200mm	Jun 07, 1995	2	2-2	BK3
	Jun 19, 1995	6	6-7	BK2
	Sep 27, 1996	25	25-26	BK3
Brown Trout <200mm	Sep 27, 1996	7	7-9	
Brown Trout >=200mm	Sep 27, 1996	4	4-4	BR3
Longnose Dace	Jun 19, 1995	4	4-6	

Site 690

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 07, 1995	27	27-27	
	Jun 19, 1995	80	53-124	
	Sep 26, 1996	175	166-184	

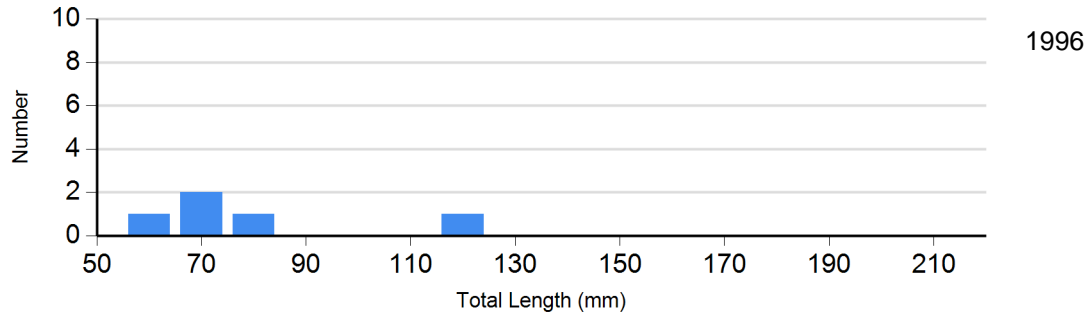
Brook Trout >=200mm	Jun 07, 1995	3	3-3	BK2
	Jun 19, 1995	7	7-8	BK2
	Sep 26, 1996	16	16-17	BK3
Brown Trout <200mm	Jun 07, 1995	2	2-2	
	Sep 26, 1996	27	27-29	
Brown Trout >=200mm	Jun 07, 1995	15	15-15	BR2
	Sep 26, 1996	42	42-43	BR3
Hatchery Brown Trout <200mm	Jun 19, 1995	6	7-10	
Hatchery Brown Trout >=200mm	Jun 19, 1995	24	24-26	
Longnose Dace	Jun 07, 1995	2	2-2	
	Jun 19, 1995	22	13-56	
	Sep 26, 1996	1	2-2	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

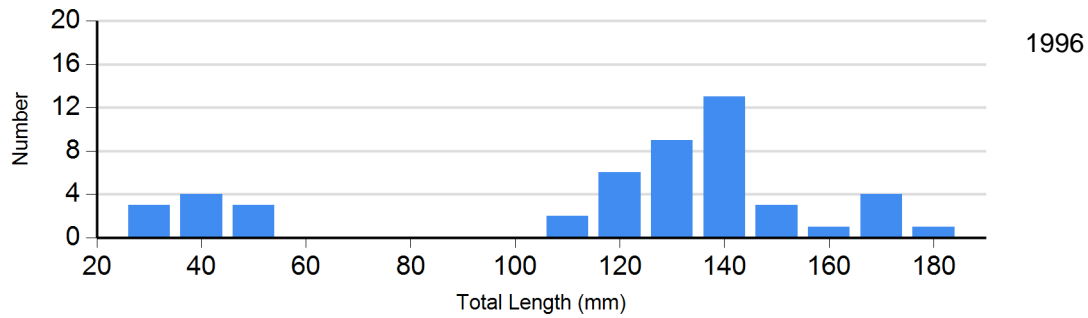
Site: 44

Species: Green Sunfish



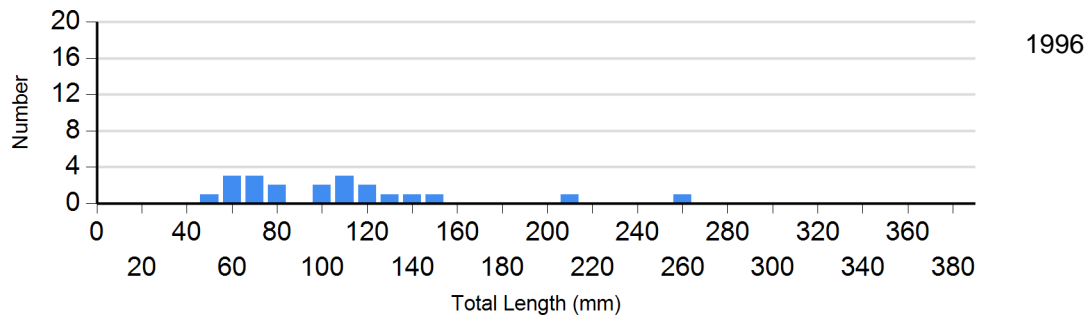
Site: 44

Species: Stone Cat

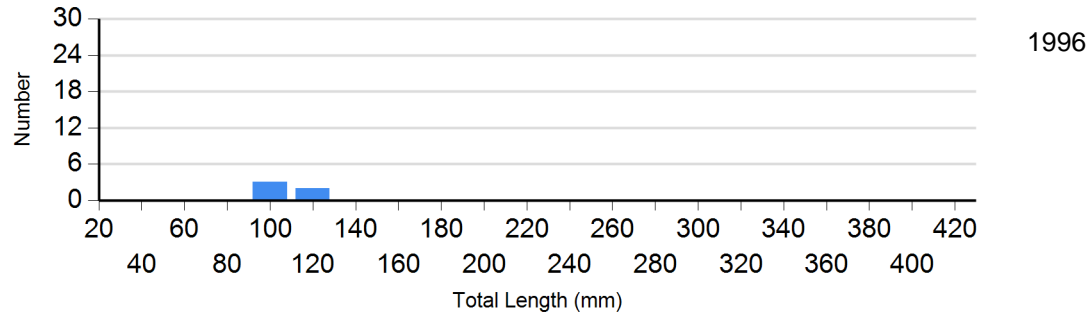


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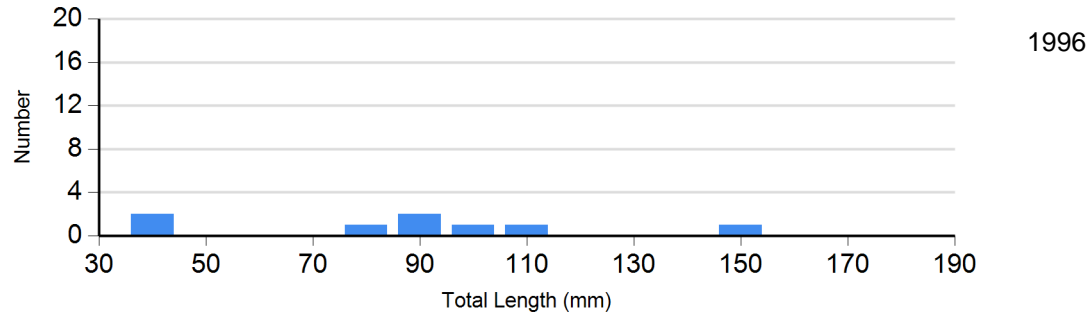
Species: White Sucker



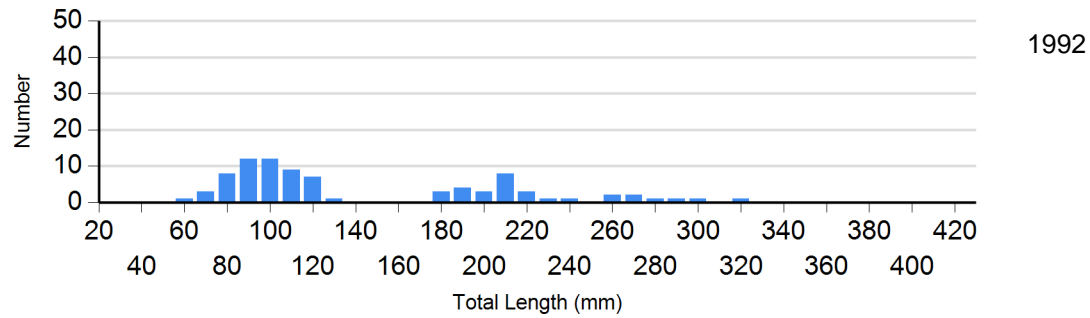
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Species: Brown Trout

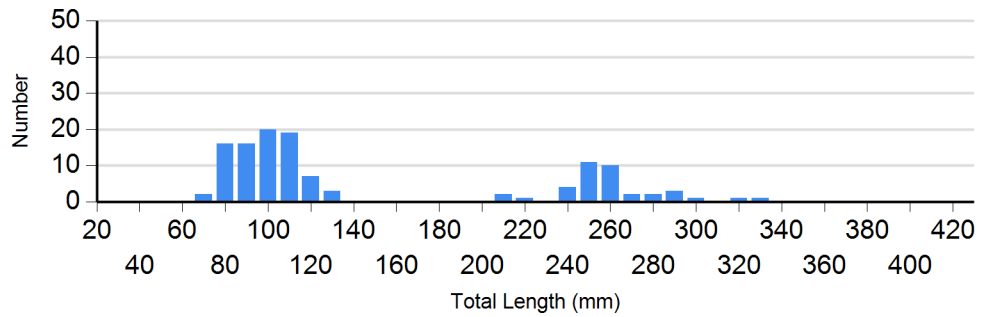
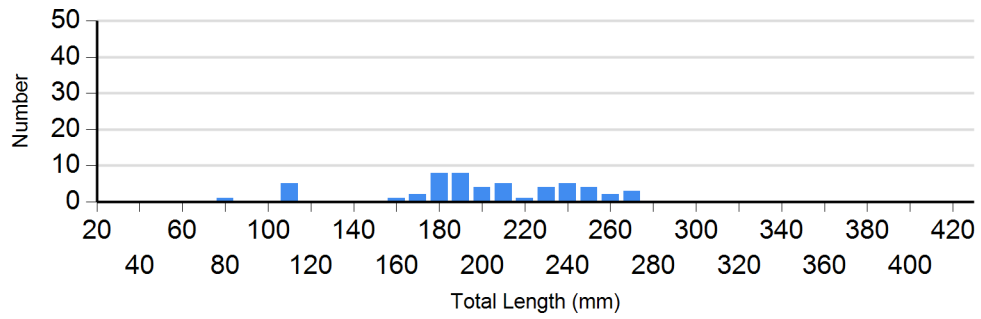
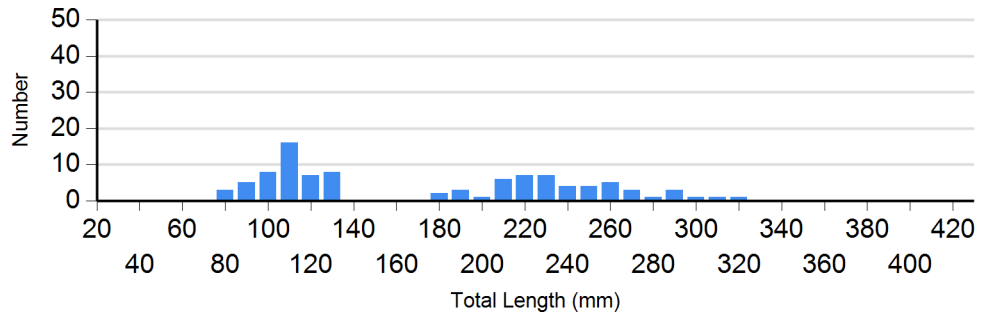
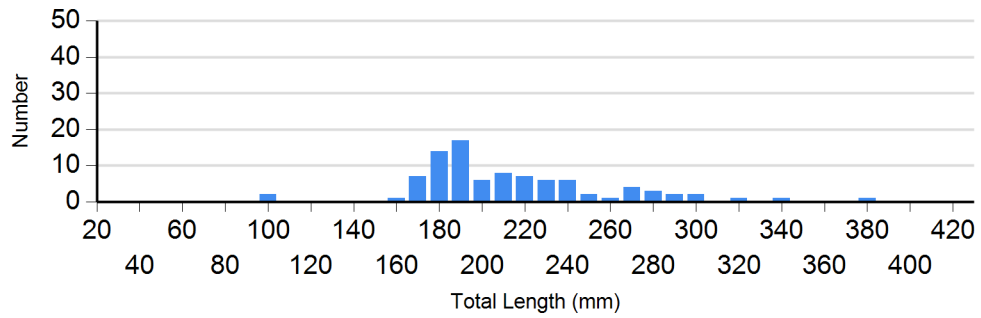


Site: 295
Species: Mountain Sucker

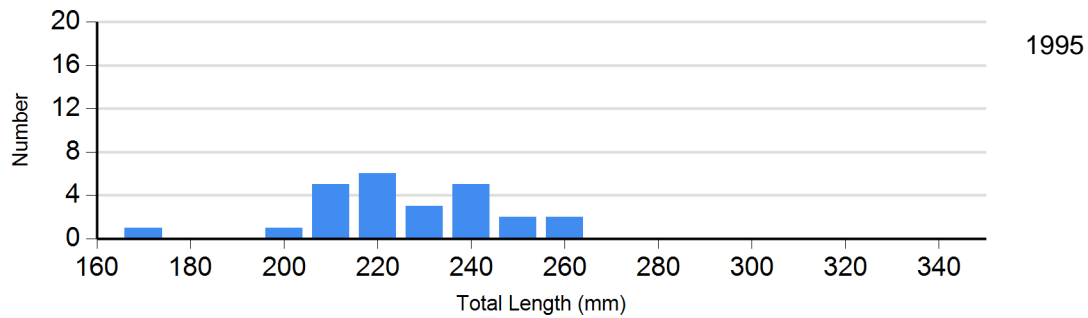
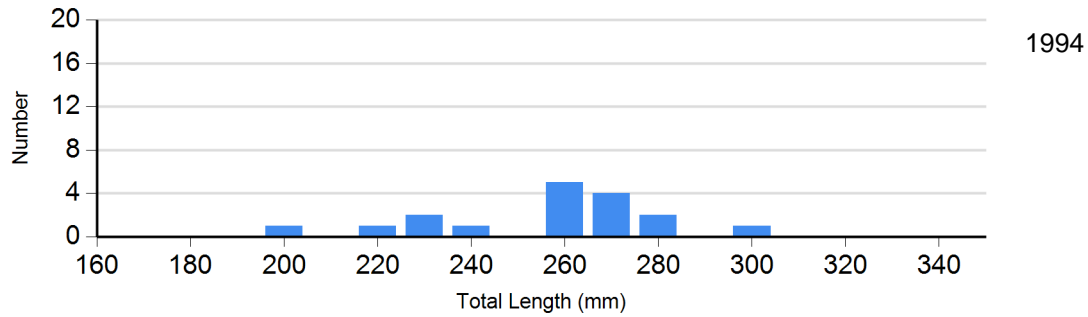
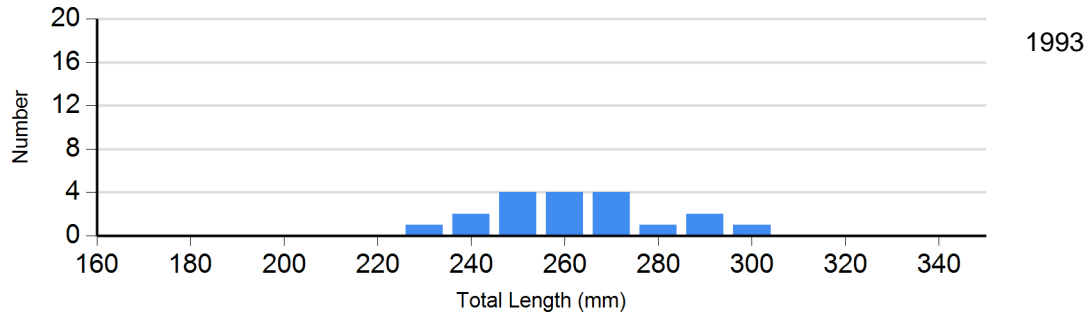
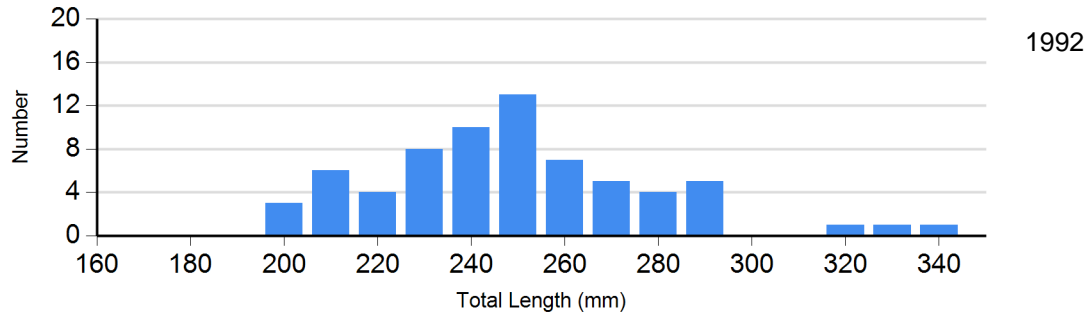


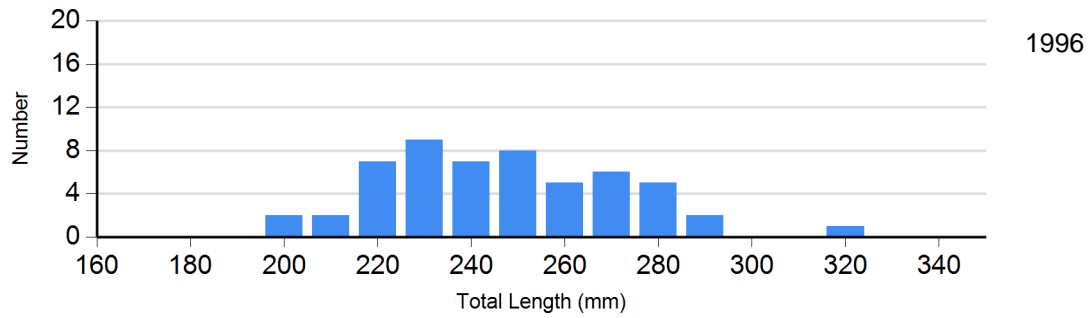
Site: 558
Species: Brown Trout



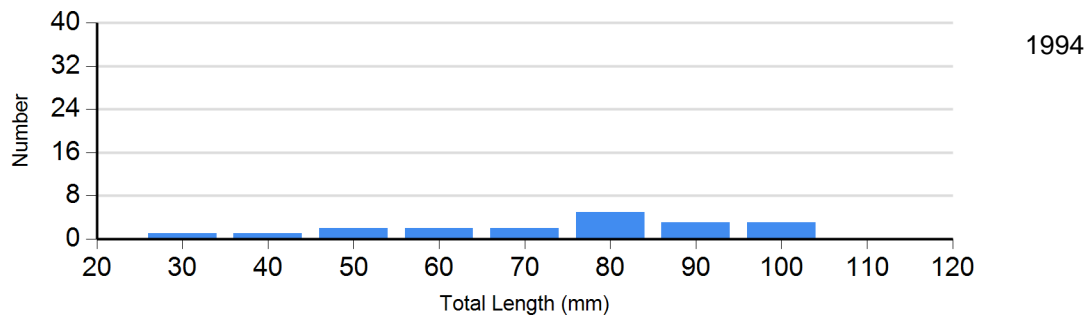
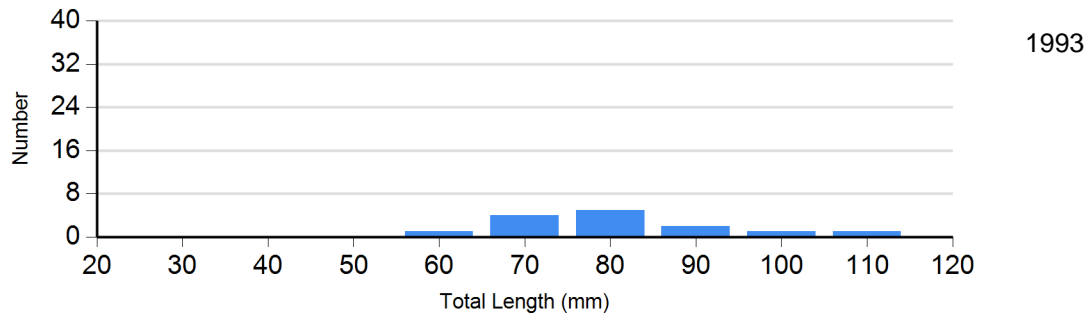
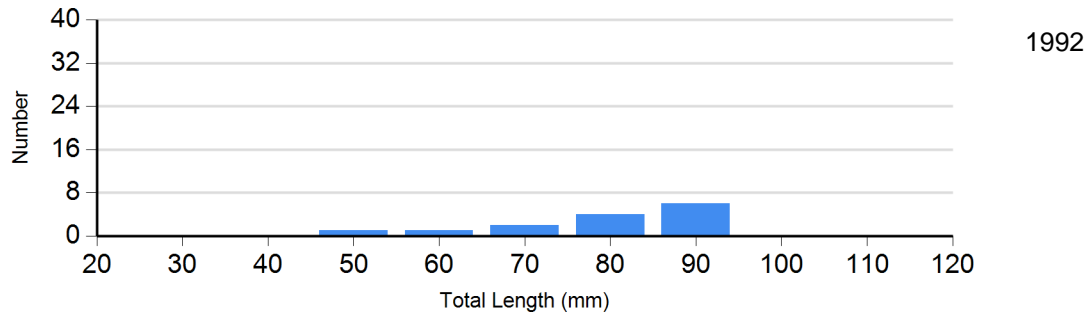


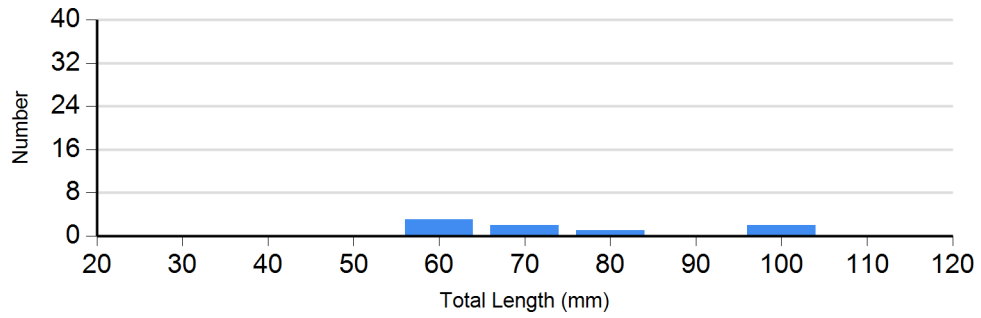
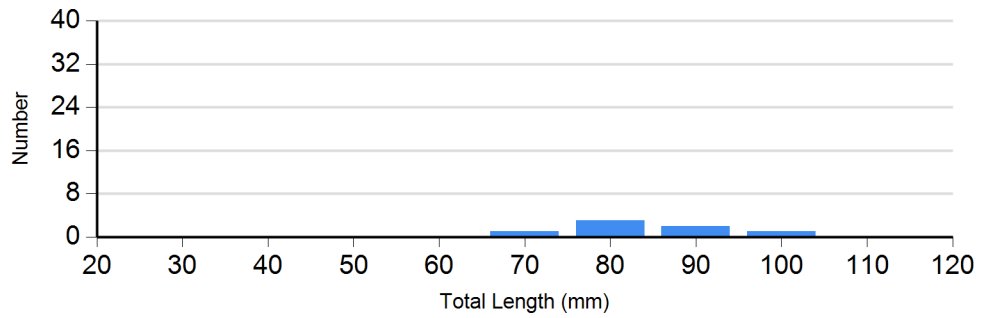
Site: 558
Species: Hatchery Brown Trout



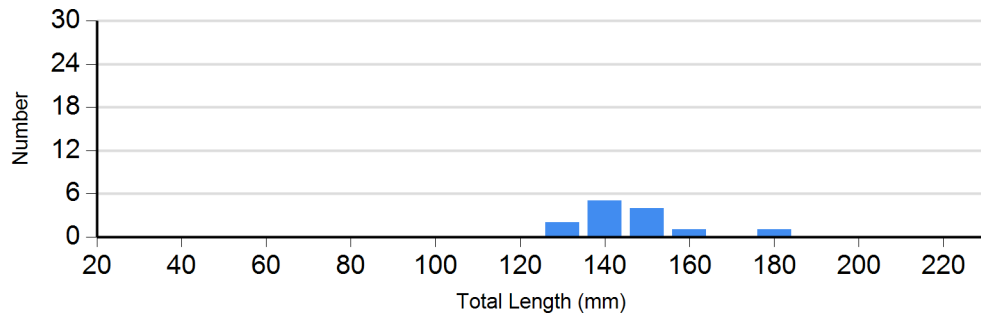
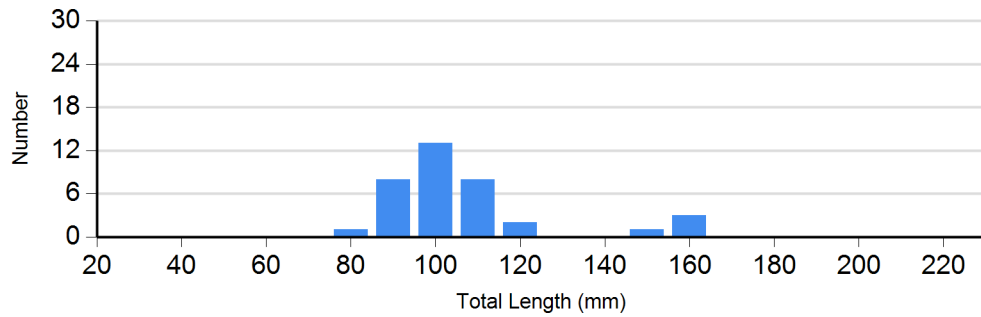


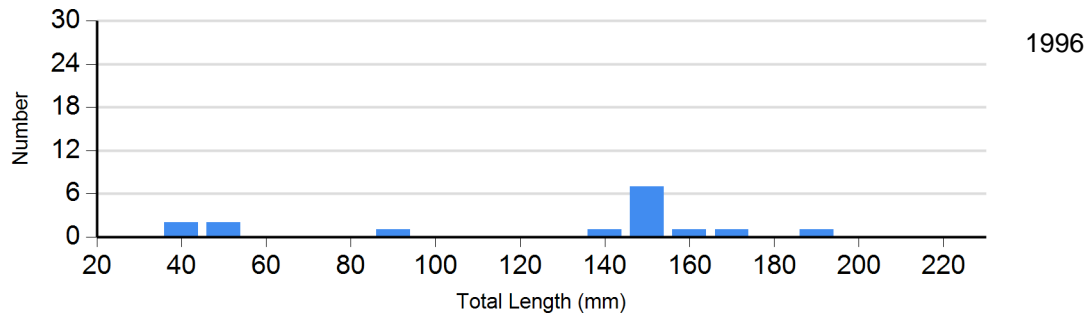
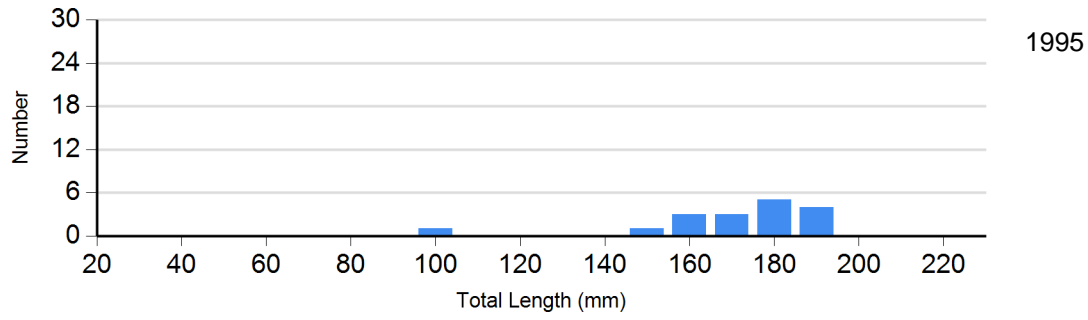
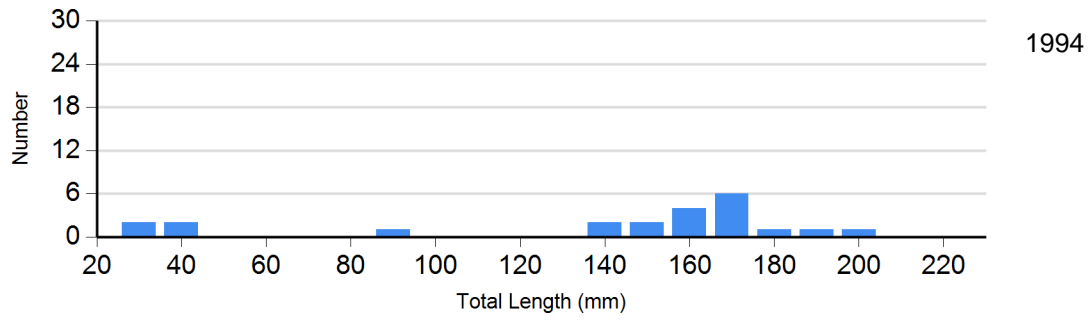
Site: 558
Species: Longnose Dace



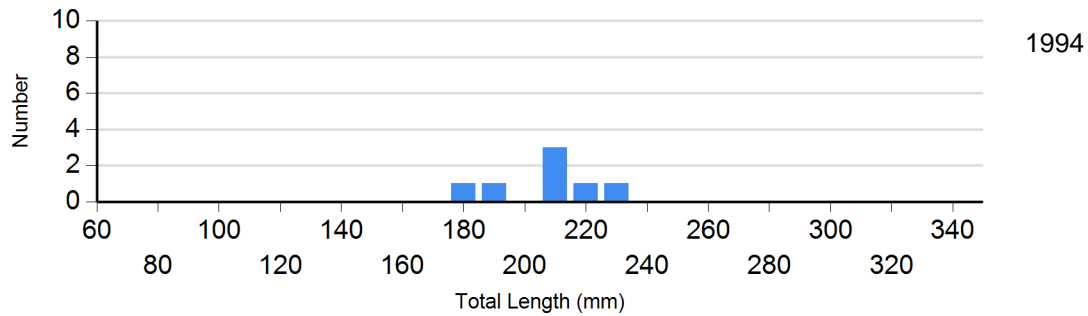


Site: 558
Species: Mountain Sucker

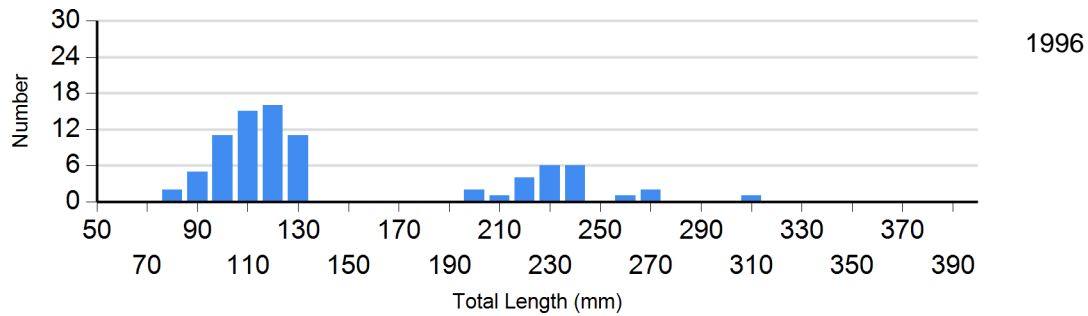
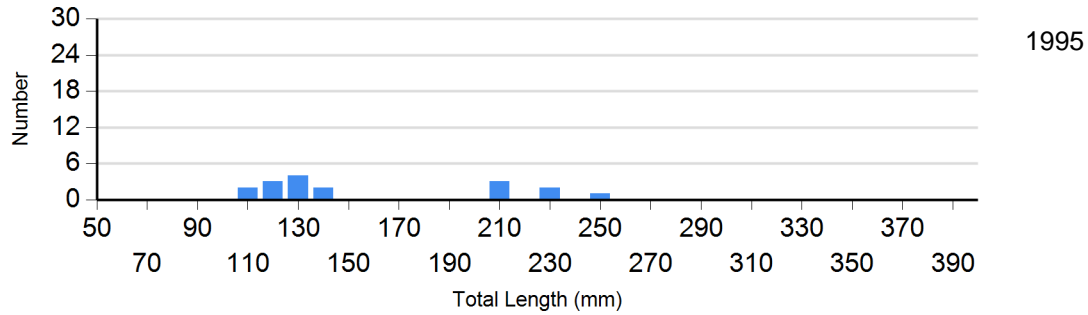
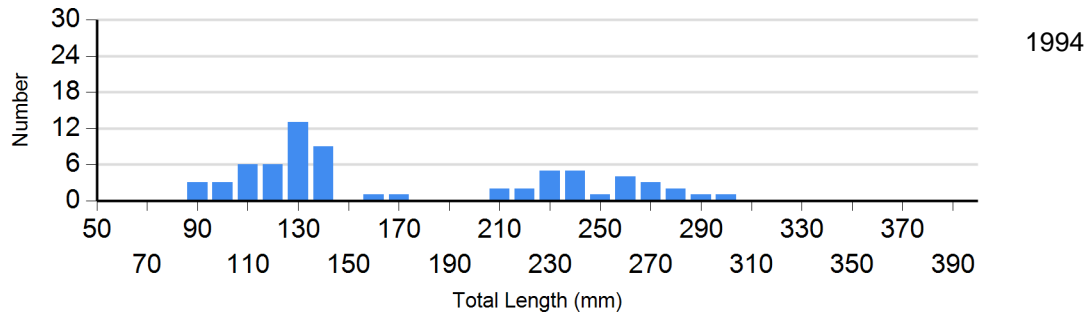
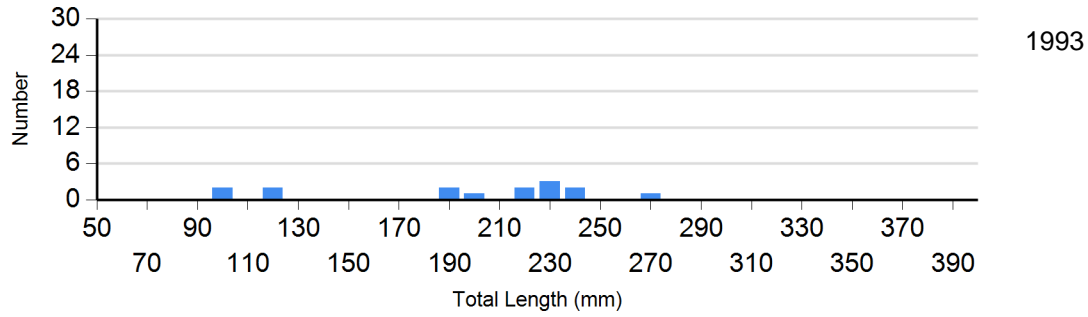




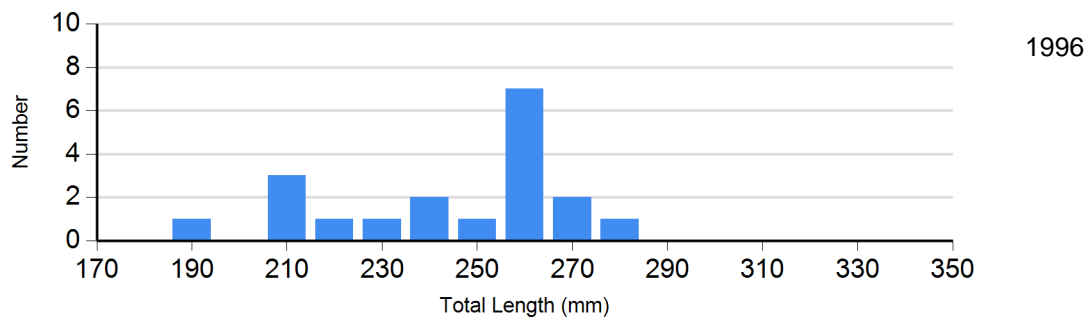
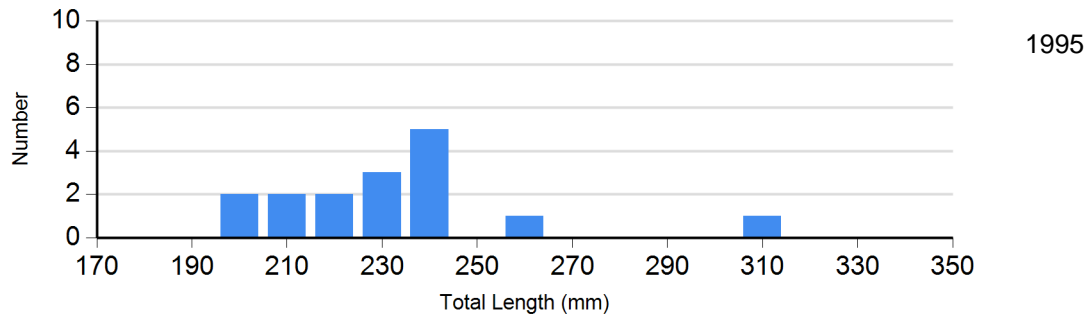
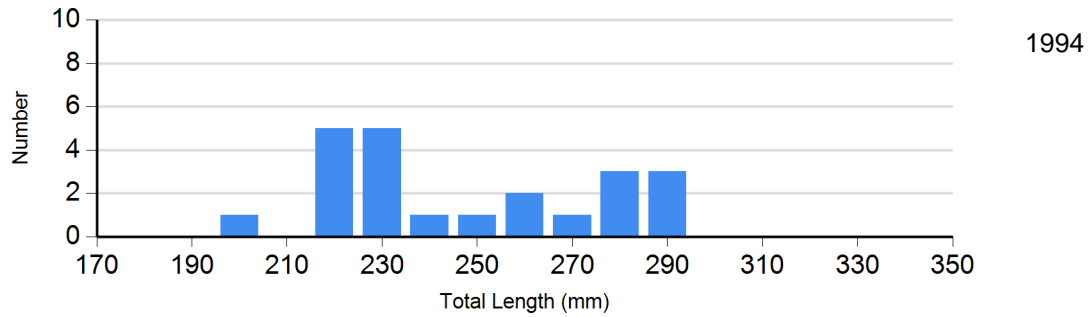
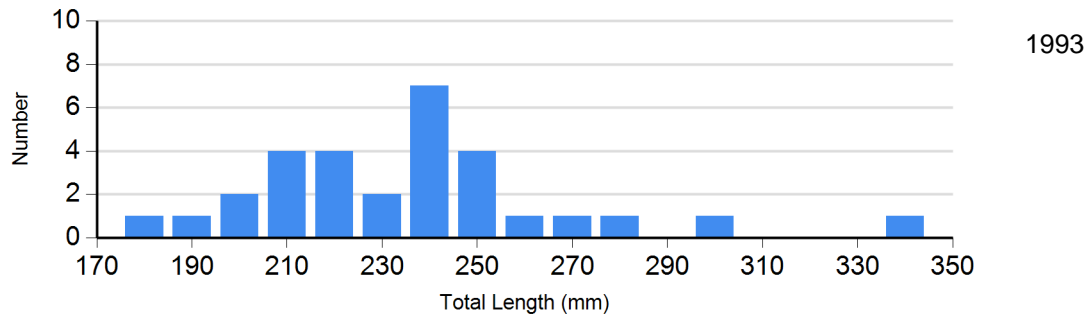
Site: 588
Species: Brook Trout



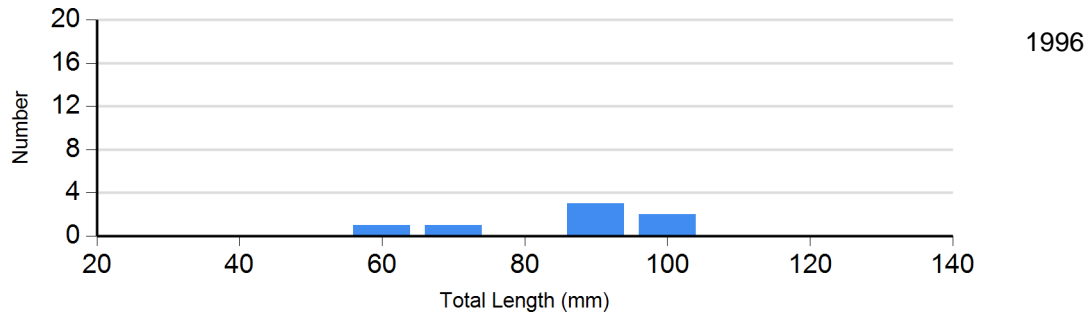
Site: 588
Species: Brown Trout



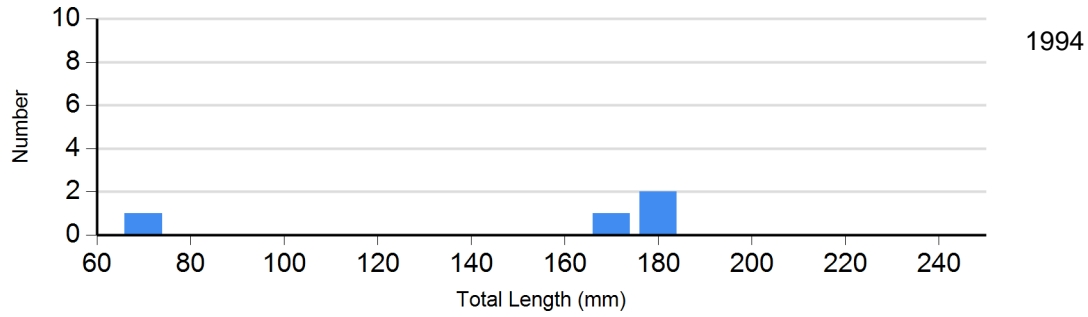
Site: 588
Species: Hatchery Brown Trout



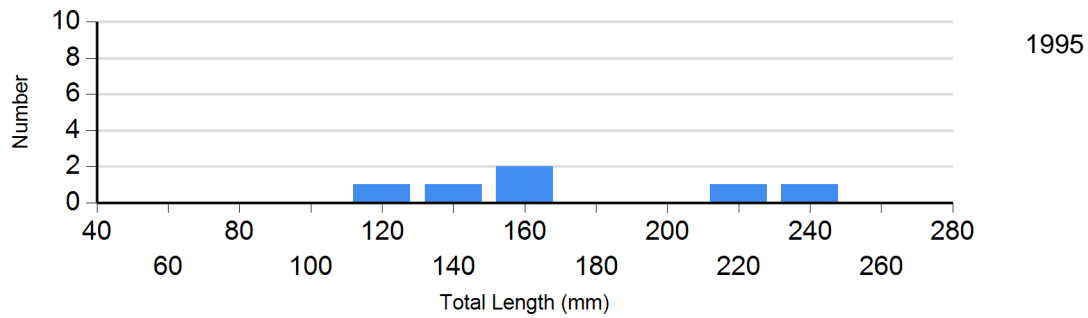
Site: 588
Species: Longnose Dace

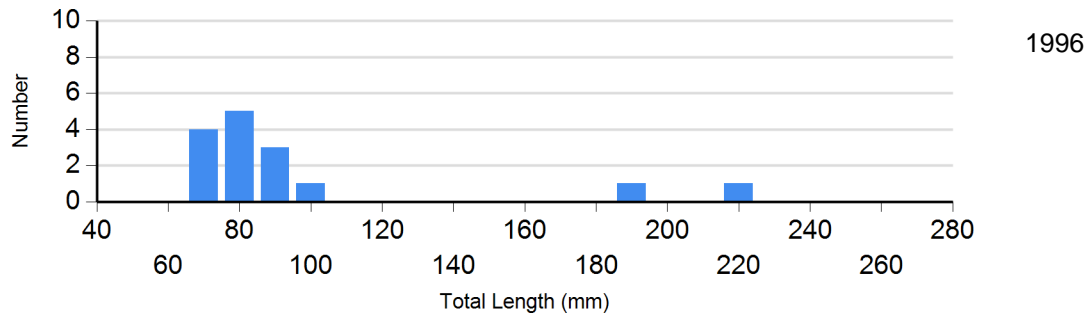


Site: 588
Species: Mountain Sucker

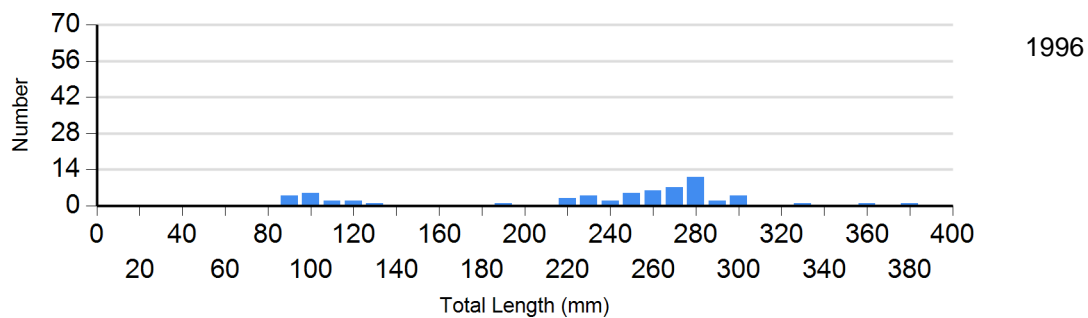
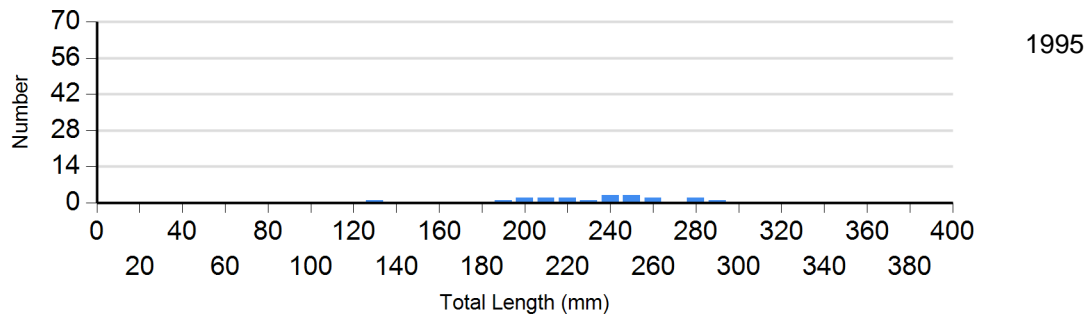
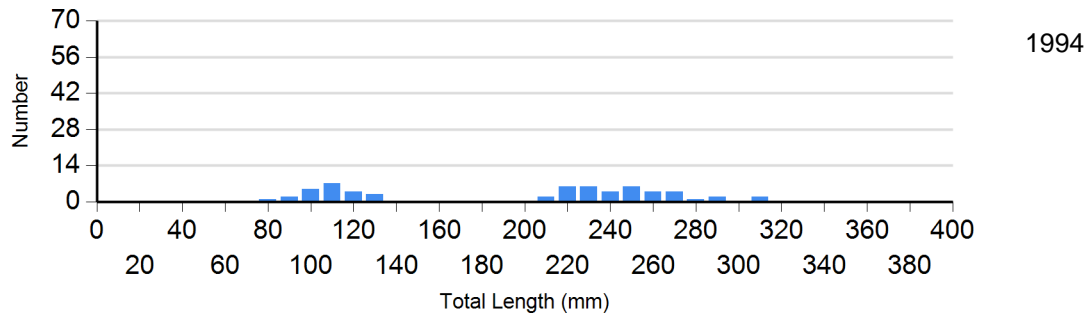


Site: 599
Species: Brook Trout

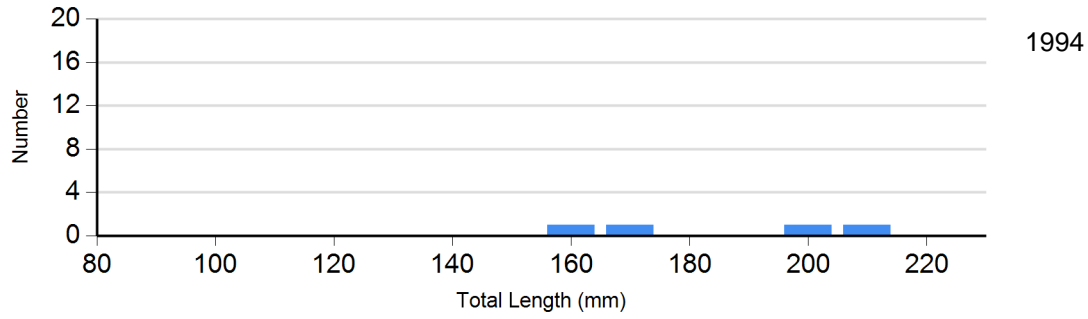




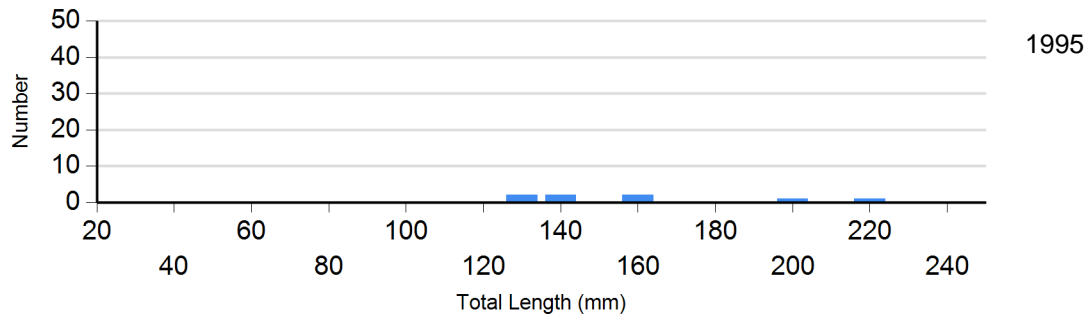
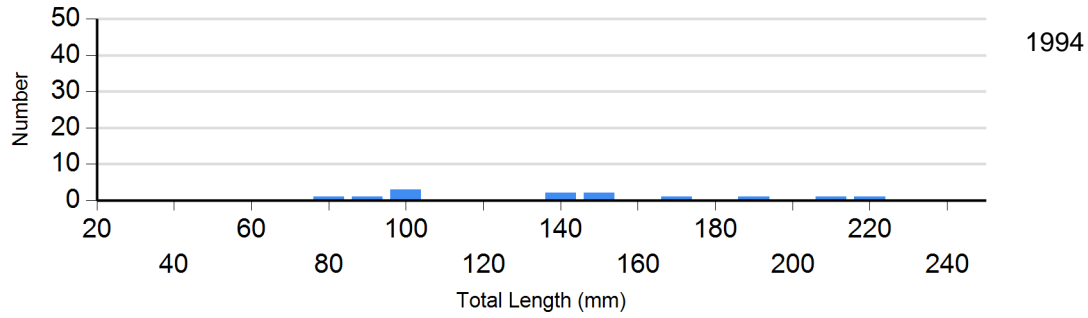
Site: 599
Species: Brown Trout

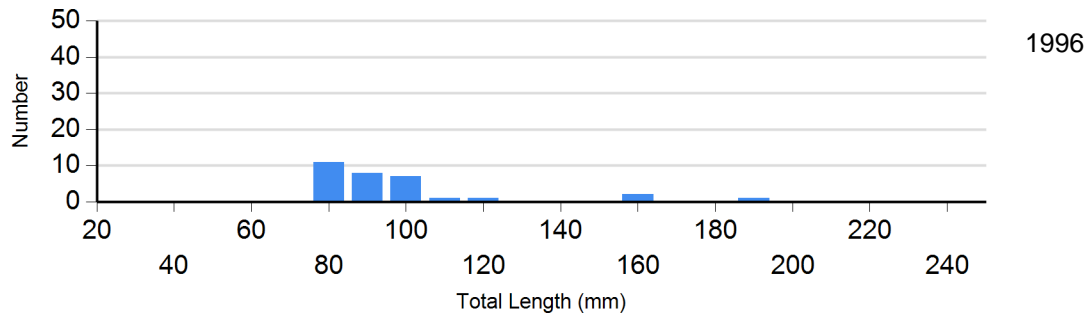


Site: 599
Species: Mountain Sucker

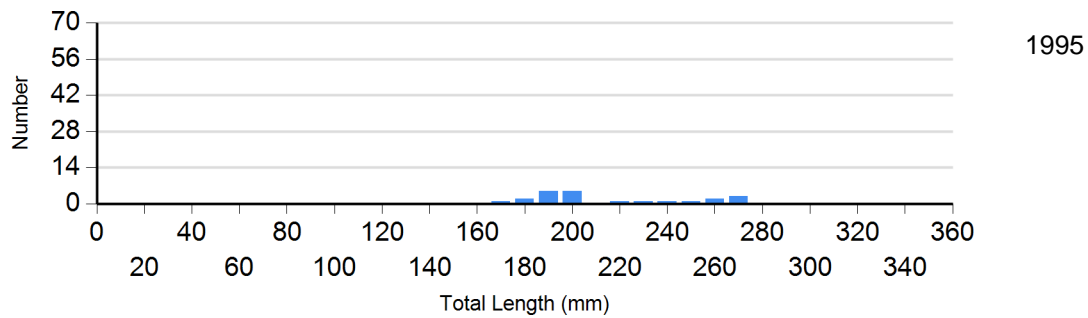
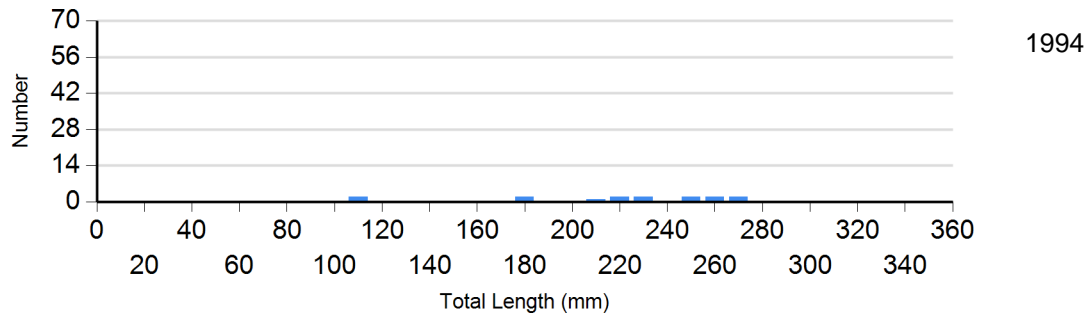
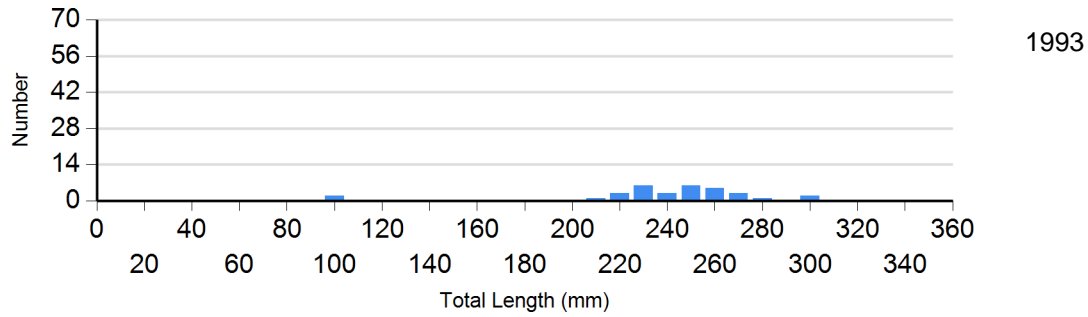


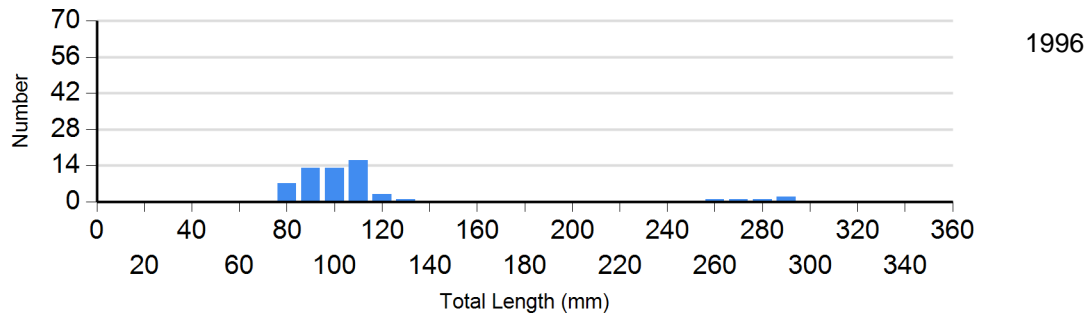
Site: 612
Species: Brook Trout



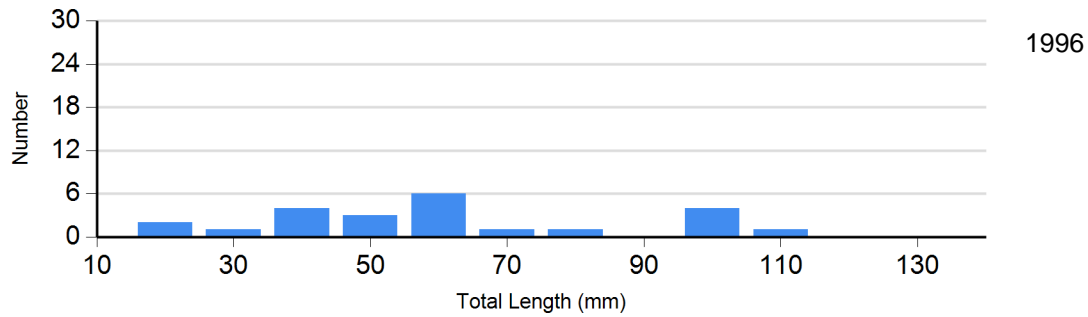
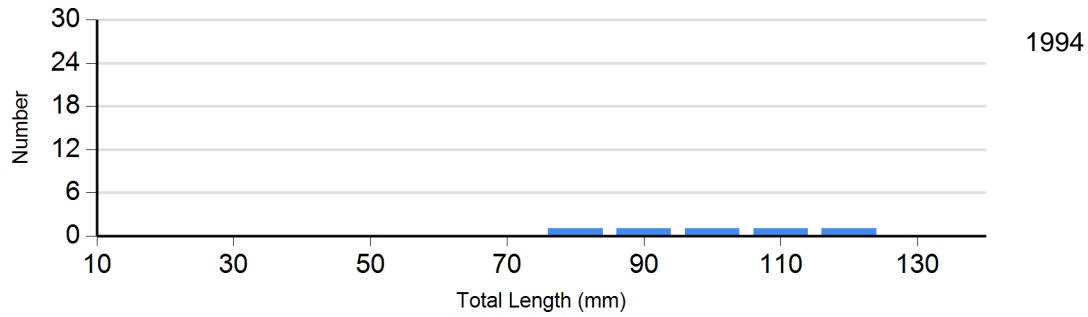


Site: 612
Species: Brown Trout

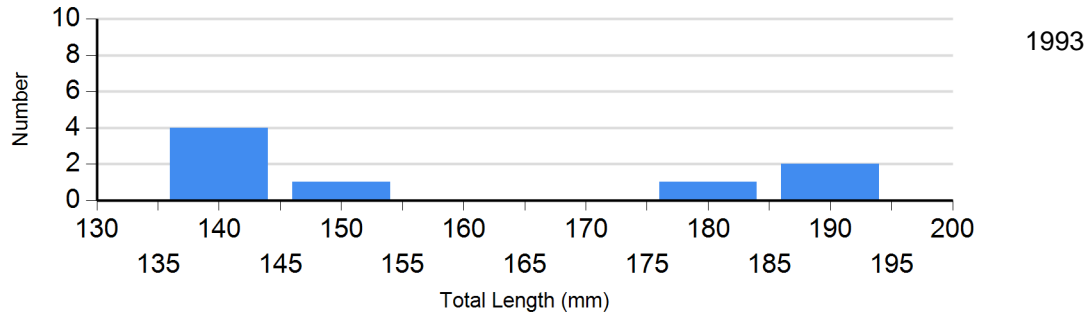




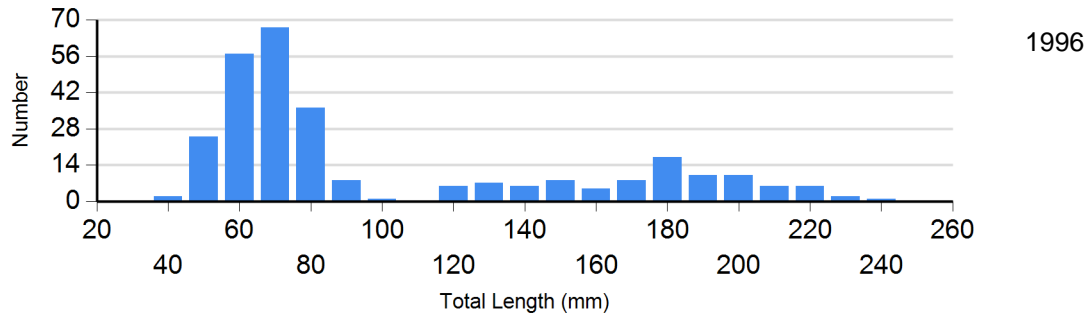
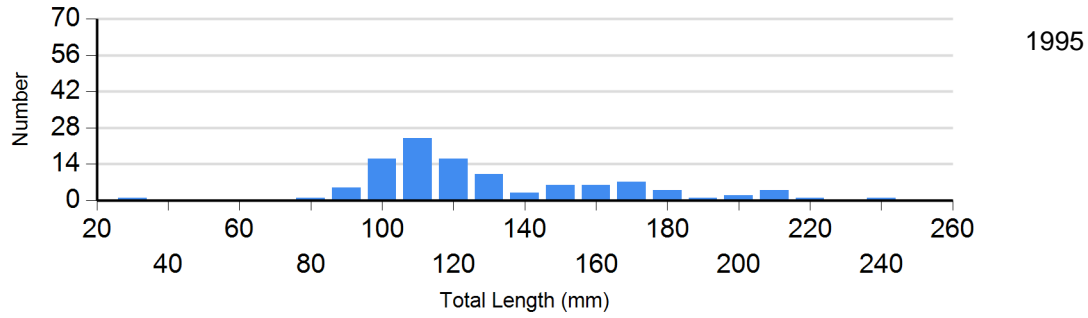
Site: 612
Species: Longnose Dace



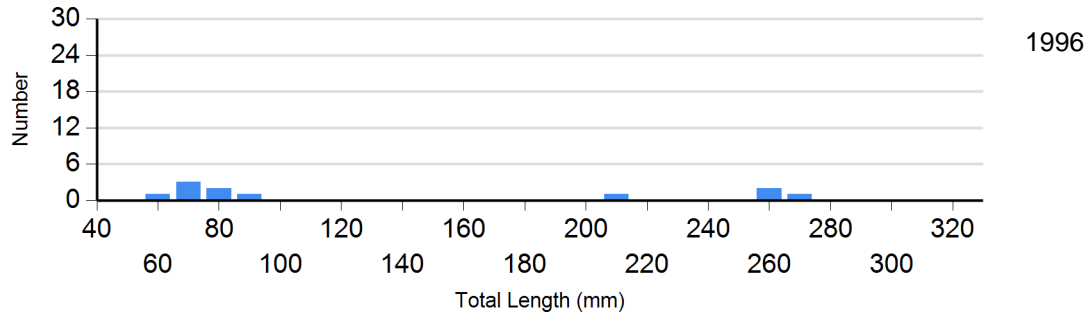
Site: 612
Species: Mountain Sucker



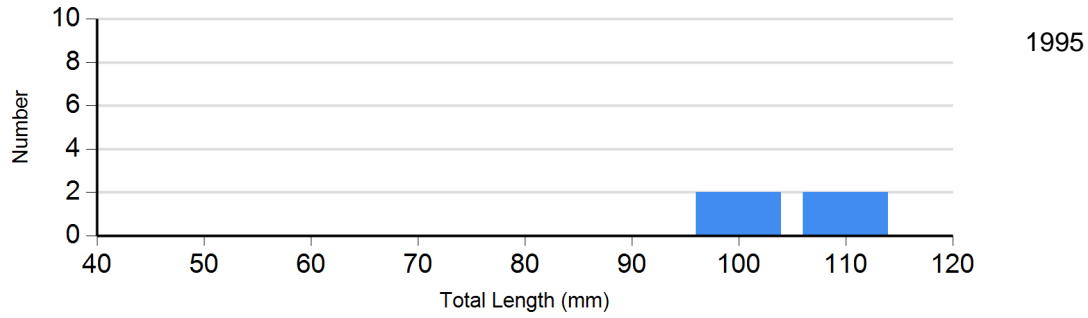
Site: 679
Species: Brook Trout



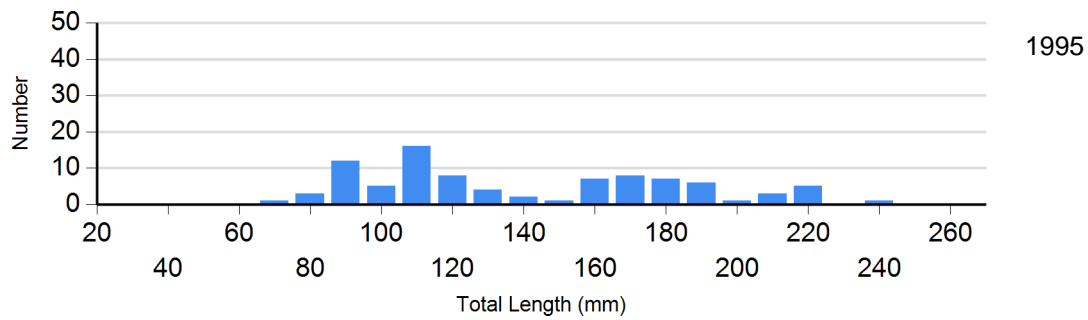
Site: 679
Species: Brown Trout

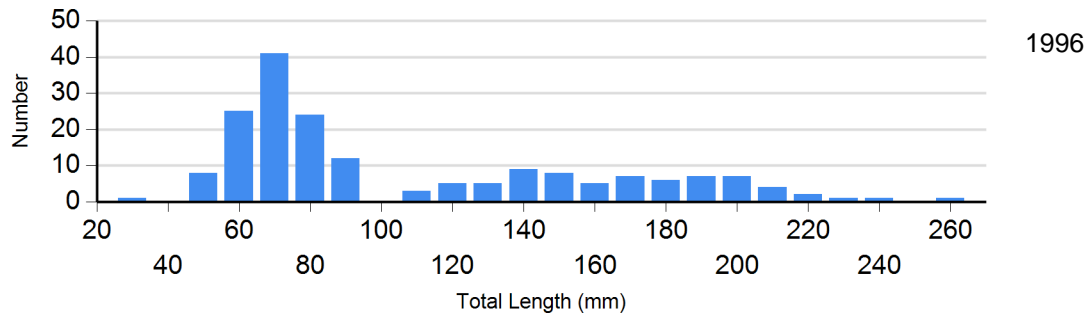


Site: 679
Species: Longnose Dace

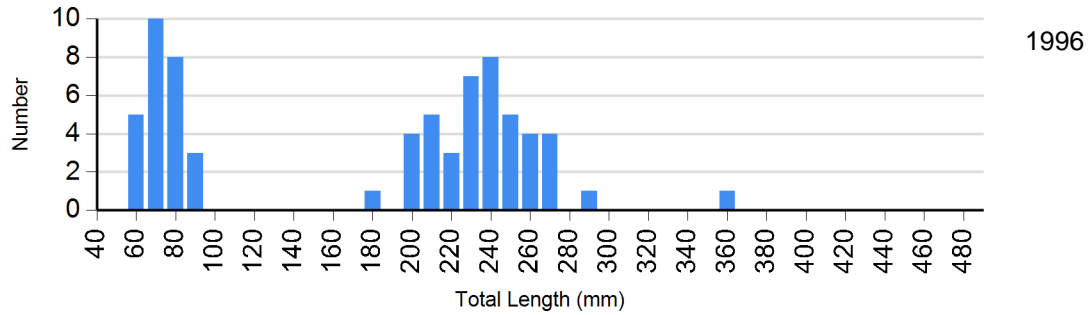
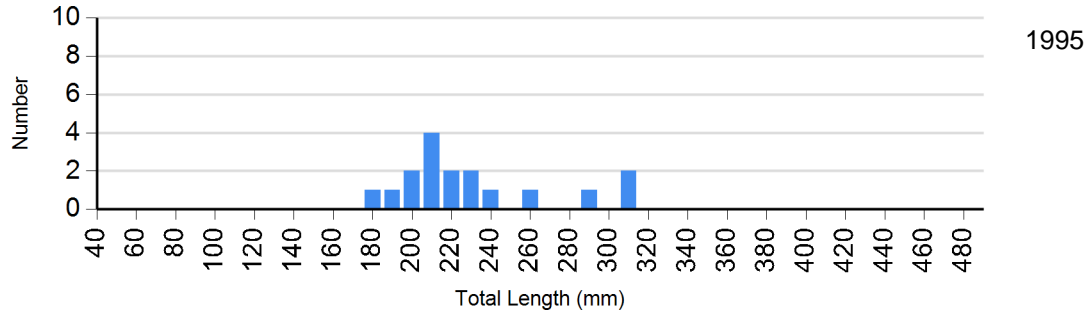


Site: 690
Species: Brook Trout

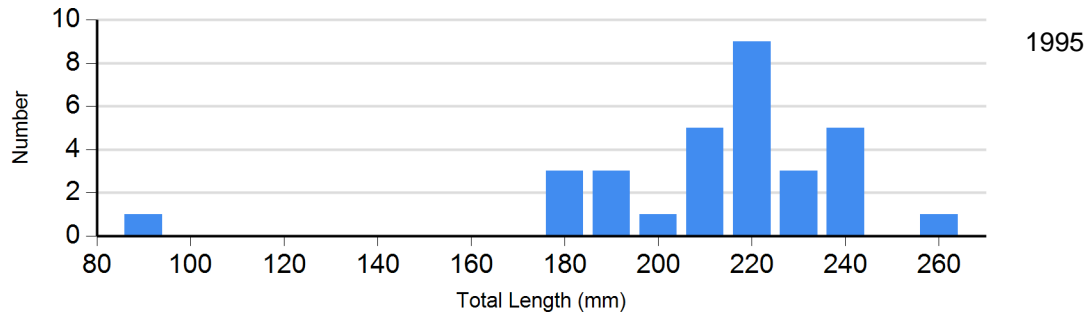




Site: 690
Species: Brown Trout



Site: 690
Species: Hatchery Brown Trout



Site: 690
Species: Longnose Dace

