

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Whitewood Creek, Lawrence County
09-0056-00
2019

Table 1. Population and Biomass Estimates for Whitewood Creek

Site Number: 366	Date Sampled: 07/29/2019	Conductivity (umhos/cm): 784
Site Midpoint (Latitude, Longitude): 44.47327066, -103.62518393	Site Length (m): 100	pH: 8.9
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 8.7	Water Temperature (C): 16.5
Stream Classification: BR3	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)
Brown Trout	<200mm	4	3	5	4	35	1	30	14	0.62	48	100.8	20.0
Brown Trout	>=200mm	5	5	5	5	58	10	50	23	8.57	80	235.8	166.6
Brown Trout	All	9	10	15	9	115	12	100	47	10.44	161	175.8	101.4
Green Sunfish	All	1	1	5	1	12	0	10	5	0.00	16	66.0	0.0
Longnose Dace	All	103	218	396	103	2512	0	2180	1017	0.00	3508	66.0	0.0
Mountain Sucker	All	17	18	22	17	207	2	180	84	1.86	290	89.6	10.1

Site Number: 384	Date Sampled: 07/29/2019	Conductivity (umhos/cm): 790
Site Midpoint (Latitude, Longitude): 44.45924785, -103.61978218	Site Length (m): 100	pH: 9.1
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 6.4	Water Temperature (C): 17.5
Stream Classification: BR2	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)
Brown Trout	<200mm	4	4	6	4	63	0	40	25	0.00	64	58.0	0.0
Brown Trout	>=200mm	5	5	7	5	79	38	50	32	34.23	80	322.4	487.2

Brown Trout	All	9	9	11	9	142	38	90	57	34.23	145	204.9	270.7
Longnose Dace	All	68	67	78	68	1054	0	670	427	0.00	1078	72.6	0.0
Mountain Sucker	All	18	21	30	18	330	15	210	134	13.51	338	146.2	45.8

Site Number: 409
Site Midpoint (Latitude, Longitude): 44.44223417, -103.62944341
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR2

Date Sampled: 07/29/2019
Site Length (m): 100
Mean Width (m): 6.4
Number of Pass: 3
Conductivity (umhos/cm): 773
pH: 8.9
Water Temperature (C): 16.1
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)
Brown Trout	<200mm	8	8	9	8	124	2	80	50	2.13	129	96.5	19.3
Brown Trout	>=200mm	9	10	15	9	155	36	100	63	32.32	161	265.1	233.3
Brown Trout	All	17	17	19	17	264	35	170	107	31.22	274	185.8	132.6
Longnose Dace	All	58	92	147	58	1427	1	920	578	0.62	1480	75.0	0.5
Mountain Sucker	All	13	13	14	13	202	7	130	82	6.40	209	144.8	35.5
White Sucker	All	1	1	1	1	16	2	10	6	1.44	16	196.0	104.0

Site Number: 482
Site Midpoint (Latitude, Longitude): 44.41786197, -103.67018885
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR2

Date Sampled: 08/13/2019
Site Length (m): 100
Mean Width (m): 8.2
Number of Pass: 3
Conductivity (umhos/cm): 0
pH: 7.0
Water Temperature (C): 0.0
Voltage: 0

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	12	13	18	12	159	1	130	64	1.04	209	97.2	7.3
Brown Trout	>=200mm	22	22	24	22	269	90	220	109	80.29	354	296.8	334.4

Brown Trout	All	34	36	41	34	440	96	360	178	86.03	579	226.4	219.0
Longnose Dace	All	25	28	36	25	342	0	280	139	0.34	451	90.4	1.1

Site Number: 514	Date Sampled: 07/01/2019	Conductivity (umhos/cm): 729
Site Midpoint (Latitude, Longitude): 44.41251876, -103.69482998	Site Length (m): 100	pH: 9.1
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 7.9	Water Temperature (C): 16.5
Stream Classification: BR2	Number of Pass: 2	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	7	7	9	7	89	7	70	36	6.34	113	185.1	79.7
Brown Trout	>=200mm	19	24	38	19	305	109	240	124	97.07	386	299.1	356.2
Brown Trout	All	26	32	46	26	407	115	320	165	102.38	515	268.4	281.8
Longnose Dace	All	34	33	41	34	420	3	330	170	2.99	531	87.7	8.0
Mountain Sucker	All	8	8	10	8	102	3	80	41	2.59	129	124.1	28.5

Site Number: 531	Date Sampled: 08/13/2019	Conductivity (umhos/cm): 0
Site Midpoint (Latitude, Longitude): 44.40013304, -103.70004543	Site Length (m): 100	pH: 7.0
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 8.6	Water Temperature (C): 0.0
Stream Classification: BK0, BR2	Number of Pass: 3	Voltage: 0

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	4	2	23	0	20	9	0.00	32	76.0	0.0
Brook Trout	All	2	2	4	2	23	0	20	9	0.00	32	76.0	0.0
Brown Trout	<200mm	15	15	17	15	175	0	150	71	0.00	241	84.3	0.0
Brown Trout	>=200mm	12	12	13	12	140	43	120	57	38.16	193	297.1	304.7

Brown Trout	All	27	27	29	27	316	43	270	128	38.16	434	178.9	135.4
Longnose Dace	All	47	73	119	47	853	4	730	346	3.16	1175	88.6	4.1
Mountain Sucker	All	8	8	9	8	94	2	80	38	1.50	129	105.1	18.0

Site Number: 544
Site Midpoint (Latitude, Longitude): 44.39132412, -103.70505322
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR2

Date Sampled: 07/10/2019 **Conductivity (umhos/cm):** 724
Site Length (m): 100 **pH:** 8.7
Mean Width (m): 8.1 **Water Temperature (C):** 19.5
Number of Pass: 3 **Voltage:** 50

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	3	3	5	3	37	2	30	15	1.69	48	145.7	51.3
Brown Trout	>=200mm	25	25	26	25	307	79	250	124	70.91	402	291.0	258.8
Brown Trout	All	28	28	29	28	344	81	280	139	72.59	451	275.4	236.6
Longnose Dace	All	9	12	25	9	147	1	120	60	0.66	193	81.7	5.0
Mountain Sucker	All	12	12	13	12	147	2	120	60	1.53	193	106.8	11.7

Site Number: 555
Site Midpoint (Latitude, Longitude): 44.38677575, -103.71544761
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR2

Date Sampled: 07/10/2019 **Conductivity (umhos/cm):** 655
Site Length (m): 100 **pH:** 8.6
Mean Width (m): 6.2 **Water Temperature (C):** 16.0
Number of Pass: 3 **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)
Brown Trout	<200mm	7	7	8	7	112	0	70	45	0.00	113	55.4	0.0
Brown Trout	>=200mm	11	11	12	11	176	35	110	71	31.33	177	265.9	198.9
Brown Trout	All	18	18	20	18	289	35	180	117	31.33	290	184.1	121.6

Longnose Dace	All	26	28	33	26	449	2	280	182	1.37	451	71.5	3.4
Mountain Sucker	All	19	21	27	19	337	5	210	136	4.08	338	104.1	13.6

Site Number: 557

Site Midpoint (Latitude, Longitude): 44.38611307, -103.71775032

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR2

Date Sampled: 07/10/2019

Site Length (m): 100

Mean Width (m): 7.5

Number of Pass: 3

Conductivity (umhos/cm): 629

pH: 8.7

Water Temperature (C): 59.9

Voltage: 50

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	8	10	19	8	134	5	100	54	4.40	161	127.4	36.9
Brown Trout	>=200mm	15	16	20	15	214	39	160	87	34.75	257	258.9	182.0
Brown Trout	All	23	27	37	23	361	47	270	146	42.38	434	213.1	131.5
Longnose Dace	All	3	3	3	3	40	0	30	16	0.00	48	71.0	0.0
Mountain Sucker	All	5	5	7	5	67	5	50	27	4.07	80	170.4	68.2

Site Number: 564

Site Midpoint (Latitude, Longitude): 44.38109690, -103.72264020

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR1

Date Sampled: 08/01/2019

Site Length (m): 100

Mean Width (m): 6.4

Number of Pass: 3

Conductivity (umhos/cm): 550

pH: 8.5

Water Temperature (C): 16.0

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	1	1	16	2	10	6	1.39	16	220.0	100.0
Brook Trout	All	1	1	1	1	16	2	10	6	1.39	16	220.0	100.0
Brown Trout	<200mm	9	9	10	9	140	10	90	57	8.51	145	181.9	68.0
Brown Trout	>=200mm	50	50	52	50	779	115	500	316	102.60	805	238.3	147.5

Brown Trout	All	59	59	61	59	919	124	590	372	111.11	949	229.7	135.4
Mountain Sucker	All	6	6	8	6	93	4	60	38	3.88	97	152.3	46.5

Site Number: 580

Site Midpoint (Latitude, Longitude): 44.37001605, -103.72955910

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR1

Date Sampled: 07/30/2019

Site Length (m): 100

Mean Width (m): 5.1

Number of Pass: 3

Conductivity (umhos/cm): 744

pH: 8.8

Water Temperature (C): 16.2

Voltage: 0

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	13	14	18	13	273	13	140	111	11.98	225	160.8	49.2
Brown Trout	>=200mm	33	33	35	33	644	84	330	261	75.42	531	230.2	131.2
Brown Trout	All	46	48	52	46	936	101	480	379	90.31	772	210.5	108.0
Longnose Dace	All	1	1	1	1	20	0	10	8	0.00	16	90.0	0.0
Mountain Sucker	All	3	3	5	3	59	4	30	24	3.40	48	168.3	65.0

Site Number: 587

Site Midpoint (Latitude, Longitude): 44.36719861, -103.73508416

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR2

Date Sampled: 07/30/2019

Site Length (m): 100

Mean Width (m): 5.6

Number of Pass: 3

Conductivity (umhos/cm): 806

pH: 8.7

Water Temperature (C): 17.4

Voltage: 0

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	3	3	4	3	54	2	30	22	1.43	48	130.0	29.7
Brown Trout	>=200mm	11	11	13	11	198	28	110	80	24.59	177	230.5	139.2
Brown Trout	All	14	14	16	14	252	29	140	102	26.02	225	209.0	115.7

Site Number: 599

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

Survey Completed by: GEI

Stream Classification: BR2

Date Sampled: 08/20/2019

Site Length (m): 100

Mean Width (m): 6.9

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	30	31	35	30	451	16	310	183	14.02	499	129.8	34.8
Brown Trout	>=200mm	23	23	25	23	334	41	230	135	36.25	370	226.9	121.4
Brown Trout	All	53	55	60	53	800	58	550	324	51.70	885	171.9	72.4
Longnose Dace	All	4	4	5	4	58	0	40	24	0.34	64	87.5	6.5
Mountain Sucker	All	5	5	7	5	73	7	50	29	6.43	80	194.0	99.0

Site Number: 611

Site Midpoint (Latitude, Longitude): 44.35569935, -103.73836965

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR2

Date Sampled: 07/30/2019

Site Length (m): 100

Mean Width (m): 5.4

Number of Pass: 3

Conductivity (umhos/cm):

pH: 8.8

Water Temperature (C): 19.0

Voltage: 0

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	6	6	6	6	111	7	60	45	5.98	97	178.7	60.5
Brown Trout	>=200mm	16	16	17	16	295	37	160	120	32.83	257	231.4	124.5
Brown Trout	All	22	22	23	22	406	43	220	164	38.81	354	217.0	107.0

Site Number: 612

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

Survey Completed by: GEI

Stream Classification: BK0, BR1

Date Sampled: 08/20/2019

Site Length (m): 100

Mean Width (m): 5.6

Number of Pass: 4

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	12	12	13	12	215	1	120	87	0.96	193	81.7	5.0
Brook Trout	All	12	12	13	12	215	1	120	87	0.96	193	81.7	5.0
Brown Trout	<200mm	10	10	12	10	179	8	100	72	7.07	161	144.5	44.3
Brown Trout	>=200mm	23	23	24	23	411	66	230	167	58.57	370	235.6	159.4
Brown Trout	All	33	33	35	33	590	74	330	239	65.64	531	208.0	124.5
Longnose Dace	All	11	11	13	11	197	1	110	80	1.24	177	83.5	7.1

Site Number: 623

Site Midpoint (Latitude, Longitude): 44.34930091, -103.74750999

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK0, BR2

Date Sampled: 07/01/2019

Site Length (m): 100

Mean Width (m): 6.5

Number of Pass: 3

Conductivity (umhos/cm): 431

pH: 9.0

Water Temperature (C): 17.9

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	1.20	16	184.0	87.0
Brook Trout	All	1	1	1	1	15	1	10	6	1.20	16	184.0	87.0
Brown Trout	<200mm	17	17	18	17	263	13	170	107	11.38	274	157.6	48.4
Brown Trout	>=200mm	21	21	21	21	325	46	210	132	40.77	338	225.0	140.3
Brown Trout	All	38	38	39	38	589	58	380	238	52.15	611	194.8	99.2
Longnose Dace	All	10	10	10	10	155	1	100	63	0.51	161	77.1	3.7

Site Number: 626

Site Midpoint (Latitude, Longitude): 44.34860435, -103.75071765

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR2

Date Sampled: 07/01/2019

Site Length (m): 100

Mean Width (m): 5.8

Number of Pass: 3

Conductivity (umhos/cm): 426

pH: 9.0

Water Temperature (C): 16.1

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	3	3	4	3	51	2	30	21	2.00	48	157.7	43.7
Brook Trout	>=200mm	1	1	1	1	17	2	10	7	1.50	16	216.0	98.0
Brook Trout	All	4	4	5	4	69	4	40	28	3.50	64	172.3	57.3
Brown Trout	<200mm	26	26	27	26	445	22	260	180	19.29	418	156.5	48.5
Brown Trout	>=200mm	17	17	17	17	291	39	170	118	34.94	274	224.0	134.4
Brown Trout	All	43	43	44	43	737	61	430	298	54.23	692	183.2	82.4

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, 2009-2019

Site 366

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 29, 2019	3	4-5	
Brown Trout >=200mm	Jul 29, 2019	5	5-5	BR3
Green Sunfish	Jul 29, 2019	1	1-5	
Longnose Dace	Jul 29, 2019	218	103-396	
Mountain Sucker	Jul 29, 2019	18	17-22	

Site 384

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 29, 2019	4	4-6	

Brown Trout >=200mm	Jul 29, 2019	5	5-7	BR2
Longnose Dace	Jul 29, 2019	67	68-78	
Mountain Sucker	Jul 29, 2019	21	18-30	

Site 409

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	May 31, 2016	9	8-14	
	Jun 04, 2018	8	8-10	
	Jul 29, 2019	8	8-9	
Brown Trout >=200mm	Aug 10, 2015	4	4-4	BR3
	May 31, 2016	2	2-2	BR3
	Jun 04, 2018	1	1-1	BR3
	Jul 29, 2019	10	9-15	BR2
Green Sunfish	Aug 10, 2015	1	1-5	
Longnose Dace	Aug 10, 2015	1256	1194-1318	
	May 31, 2016	2836	1818-3854	
	Jul 29, 2019	92	58-147	

Mountain Sucker	Aug 10, 2015	978	938-1018
	May 31, 2016	639	496-782
	Jun 04, 2018	14	14-16
	Jul 29, 2019	13	13-14
White Sucker	Aug 10, 2015	39	39-40
	May 31, 2016	80	79-83
	Jun 04, 2018	27	27-29
	Jul 29, 2019	1	1-1

Site 482

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 13, 2019	13	12-18	
Brown Trout >=200mm	Aug 13, 2019	22	22-24	BR2
Longnose Dace	Aug 13, 2019	28	25-36	

Site 514

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 01, 2019	7	7-9	
Brown Trout >=200mm	Jul 01, 2019	24	19-38	BR2

Longnose Dace	Jul 01, 2019	33	34-41
Mountain Sucker	Jul 01, 2019	8	8-10

Site 531

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 13, 2019	2	2-4	
Brown Trout <200mm	Aug 13, 2019	15	15-17	
Brown Trout >=200mm	Aug 13, 2019	12	12-13	BR2
Longnose Dace	Aug 13, 2019	73	47-119	
Mountain Sucker	Aug 13, 2019	8	8-9	

Site 544

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 10, 2019	3	3-5	
Brown Trout >=200mm	Jul 10, 2019	25	25-26	BR2
Longnose Dace	Jul 10, 2019	12	9-25	
Mountain Sucker	Jul 10, 2019	12	12-13	

Site 555

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 10, 2019	7	7-8	
Brown Trout >=200mm	Jul 10, 2019	11	11-12	BR2
Longnose Dace	Jul 10, 2019	28	26-33	
Mountain Sucker	Jul 10, 2019	21	19-27	

Site 557

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 10, 2019	10	8-19	
Brown Trout >=200mm	Jul 10, 2019	16	15-20	BR2
Longnose Dace	Jul 10, 2019	3	3-3	
Mountain Sucker	Jul 10, 2019	5	5-7	

Site 564

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout >=200mm	Aug 01, 2019	1	1-1	BK3
Brown Trout <200mm	Aug 01, 2019	9	9-10	
Brown Trout >=200mm	Aug 01, 2019	50	50-52	BR1
Mountain Sucker	Aug 01, 2019	6	6-8	

Site 580

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 30, 2019	14	13-18	
Brown Trout >=200mm	Jul 30, 2019	33	33-35	BR1
Longnose Dace	Jul 30, 2019	1	1-1	
Mountain Sucker	Jul 30, 2019	3	3-5	

Site 587

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 30, 2019	3	3-4	
Brown Trout >=200mm	Jul 30, 2019	11	11-13	BR2

Site 599

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 31, 2011	1	1-5	
	Aug 26, 2015	1	1-1	
	Aug 26, 2015	1	1-1	
Brook Trout >=200mm	Aug 31, 2011	1	1-5	BK3
Brown Trout <200mm	Aug 31, 2011	124	118-132	

Brown Trout <200mm	Aug 27, 2013	75	69-84	
	Aug 26, 2015	123	120-128	
	Aug 26, 2015	122	119-127	
	Aug 22, 2018	94	93-97	
	Aug 20, 2019	31	30-35	
Brown Trout >=200mm	Aug 31, 2011	27	27-28	BR1
	Aug 27, 2013	46	46-48	BR1
	Aug 26, 2015	59	57-63	BR3
	Aug 26, 2015	59	57-63	BR3
	Aug 22, 2018	12	12-12	BR3
	Aug 20, 2019	23	23-25	BR2
Longnose Dace	Aug 27, 2013	3	3-4	
	Aug 22, 2018	1	1-2	
	Aug 20, 2019	4	4-5	
Mountain Sucker	Aug 31, 2011	2	2-2	
	Aug 26, 2015	3	3-4	

Mountain Sucker	Aug 26, 2015	3	3-4
	Aug 22, 2018	2	2-2
	Aug 20, 2019	5	5-7

Site 611

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 30, 2019	6	6-6	
Brown Trout >=200mm	Jul 30, 2019	16	16-17	BR2

Site 612

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 30, 2011	31	28-38	
	Aug 28, 2013	18	18-19	
	Aug 25, 2015	4	4-4	
	May 30, 2017	4	4-5	
	Aug 20, 2019	12	12-13	
Brook Trout >=200mm	Aug 30, 2011	4	4-5	BK2
	Aug 28, 2013	1	1-1	BK3
	Jul 08, 2016	2	2-2	BK3

Brook Trout >=200mm	May 30, 2017	1	1-1	BK3
Brown Trout <200mm	Aug 14, 2009	30	30-30	
	Aug 30, 2011	122	114-131	
	Aug 28, 2013	46	43-52	
	Aug 25, 2015	96	88-106	
	Sep 17, 2015	84	71-101	
	Jul 08, 2016	61	61-62	
	May 30, 2017	60	55-68	
	Jul 30, 2018	53	53-54	
	Aug 20, 2019	10	10-12	
Brown Trout >=200mm	Aug 14, 2009	22	22-22	BR1
	Aug 30, 2011	22	22-23	BR1
	Aug 28, 2013	23	22-27	BR1
	Aug 25, 2015	37	36-40	BR3
	Sep 17, 2015	28	28-28	BR1
	Jul 08, 2016	25	25-25	BR1

Brown Trout >=200mm	May 30, 2017	17	17-17	BR2
	Jul 30, 2018	5	5-5	BR2
	Aug 20, 2019	23	23-24	BR1
Longnose Dace	Aug 25, 2015	2	2-3	
	Aug 20, 2019	11	11-13	

Site 623

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 22, 2014	7	7-7	
	May 30, 2017	5	5-6	
	Jul 01, 2019	1	1-1	
Brook Trout >=200mm	Jul 22, 2014	20	20-20	BK2
	May 30, 2017	1	1-1	BK3
Brown Trout <200mm	Jul 22, 2014	20	20-21	
	May 30, 2017	110	109-113	
	Jul 01, 2019	17	17-18	
Brown Trout >=200mm	Jul 22, 2014	27	17-58	BR1

Brown Trout >=200mm	May 30, 2017	13	13-13	BR2
	Jul 01, 2019	21	21-21	BR2
Longnose Dace	May 30, 2017	6	6-7	
	Jul 01, 2019	10	10-10	

Site 626

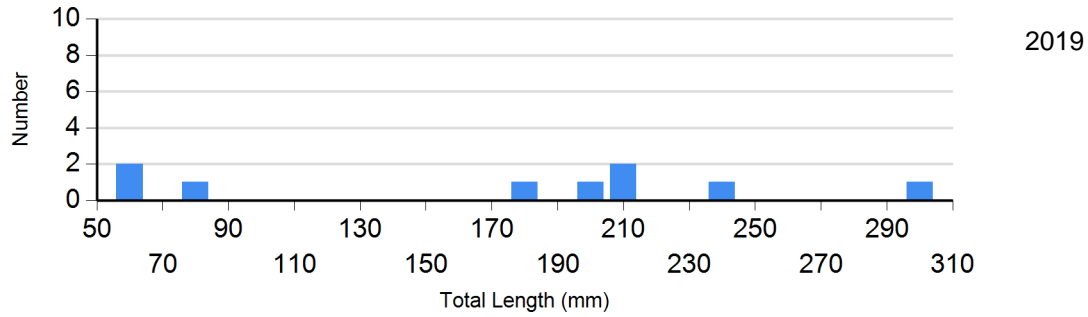
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 01, 2019	3	3-4	
Brook Trout >=200mm	Jul 01, 2019	1	1-1	BK3
Brown Trout <200mm	Jul 01, 2019	26	26-27	
Brown Trout >=200mm	Jul 01, 2019	17	17-17	BR2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

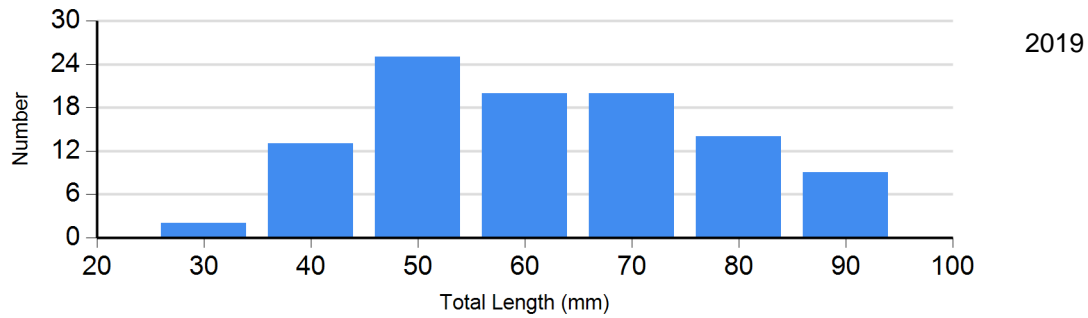
Site: 366

Species: Brown Trout



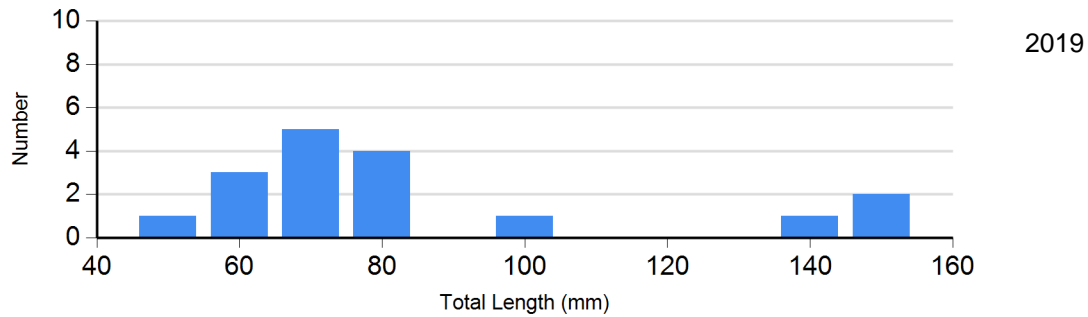
Site: 366

Species: Longnose Dace

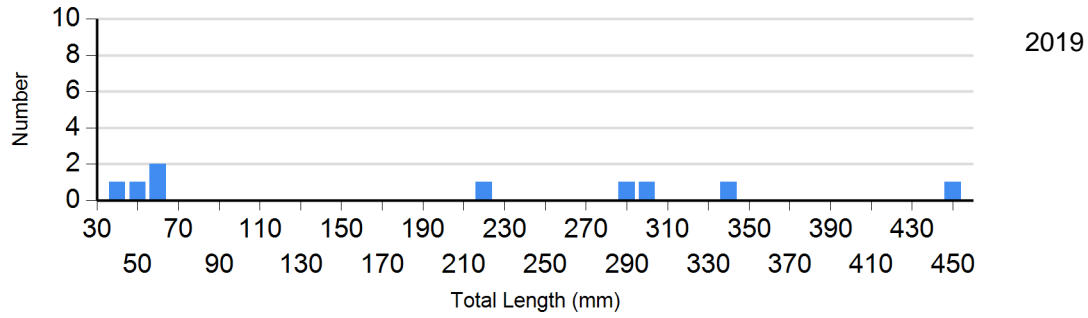


Site: 366

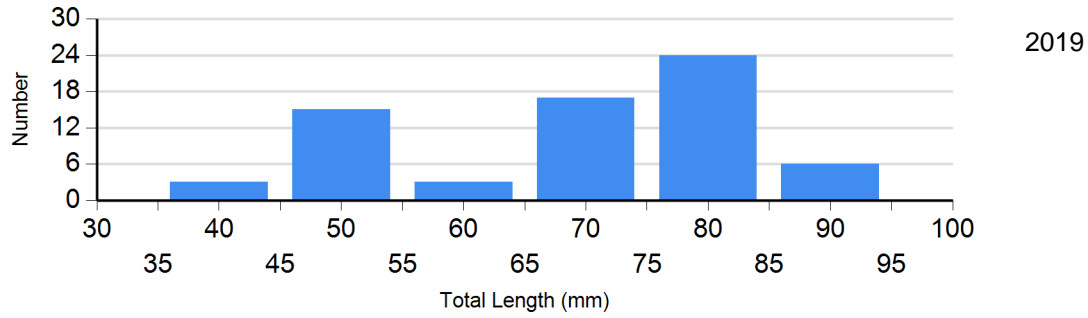
Species: Mountain Sucker



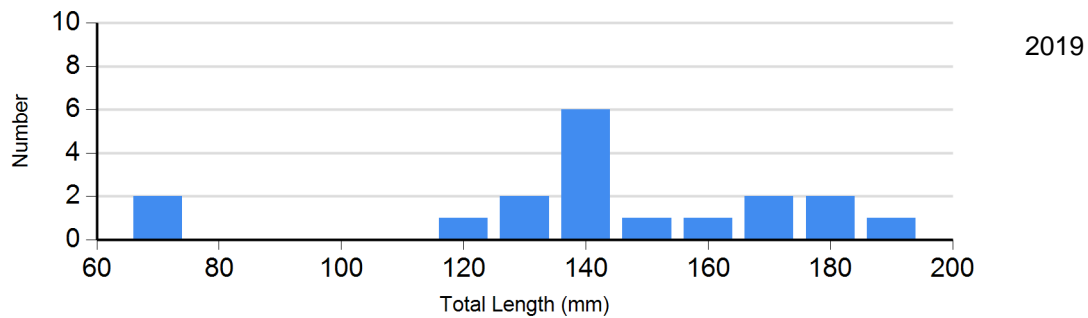
Site: 384
Species: Brown Trout



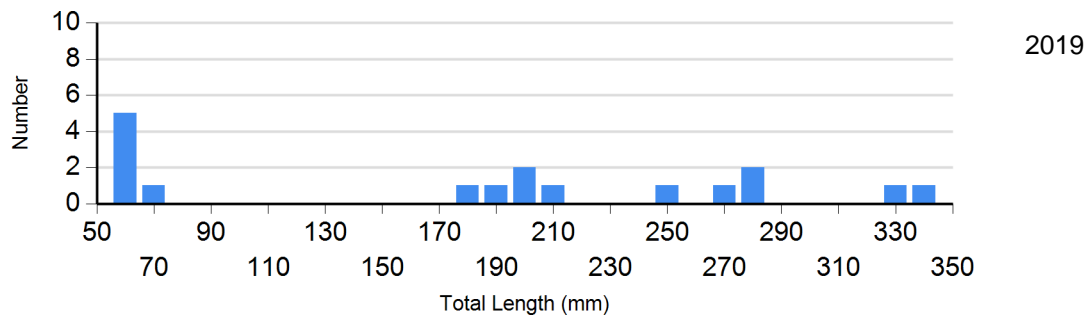
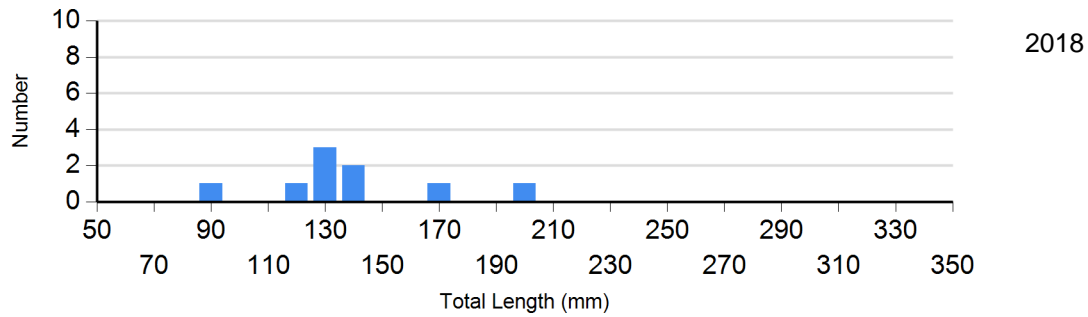
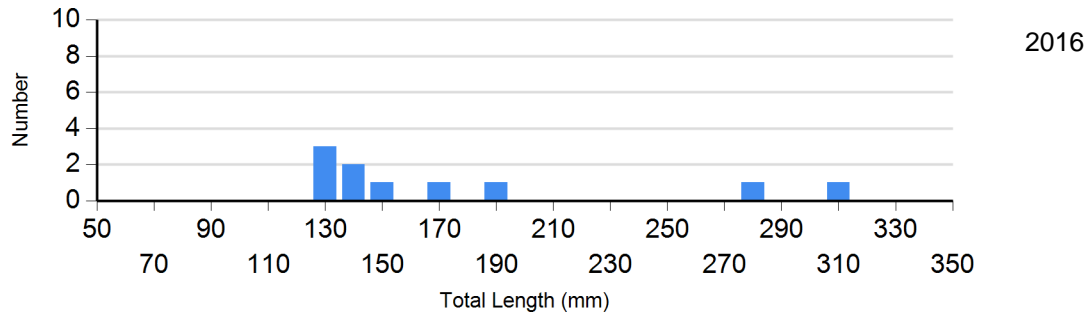
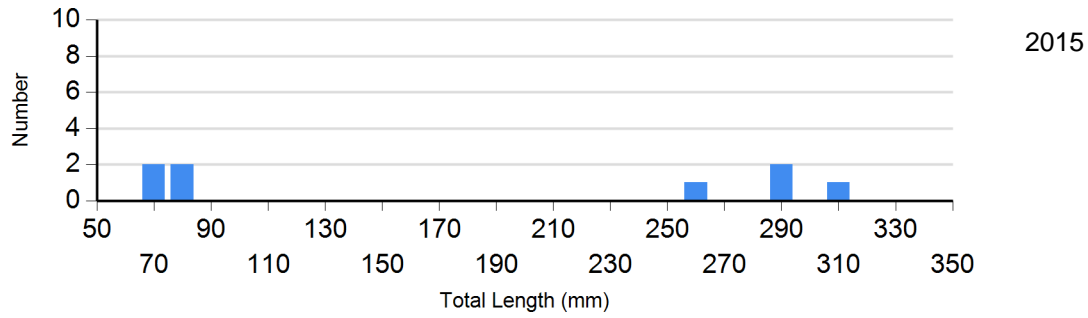
Site: 384
Species: Longnose Dace



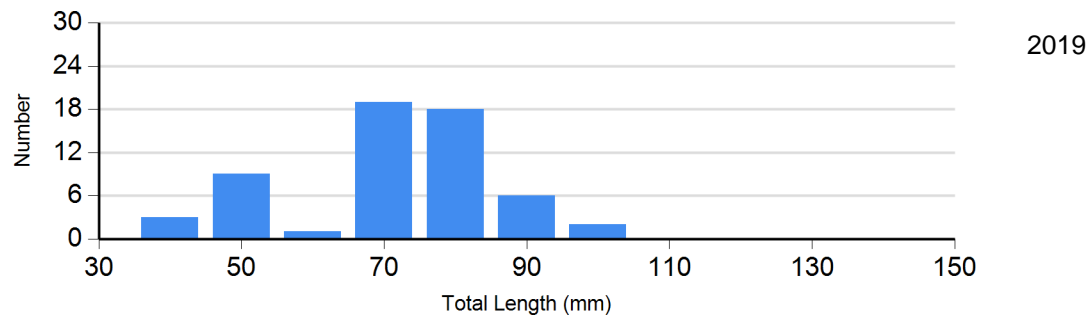
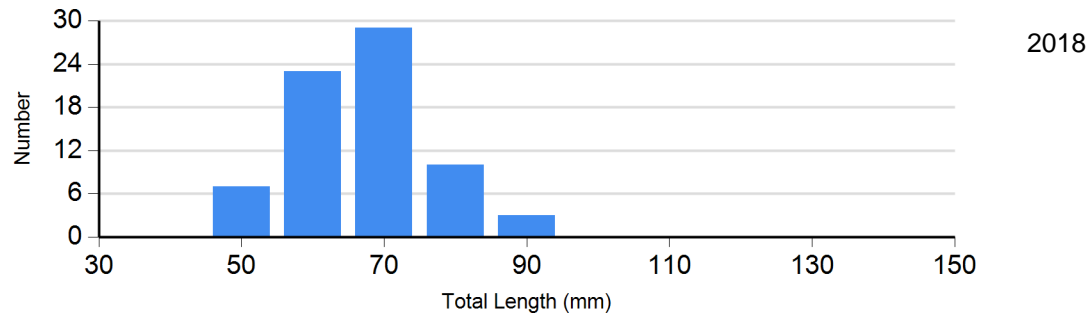
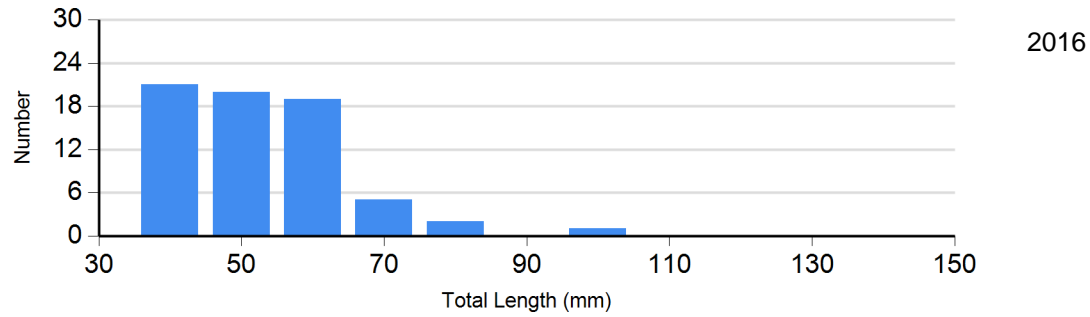
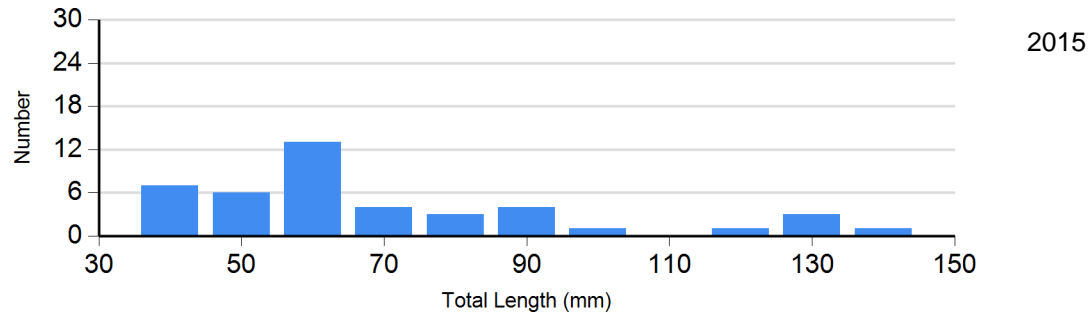
Site: 384
Species: Mountain Sucker



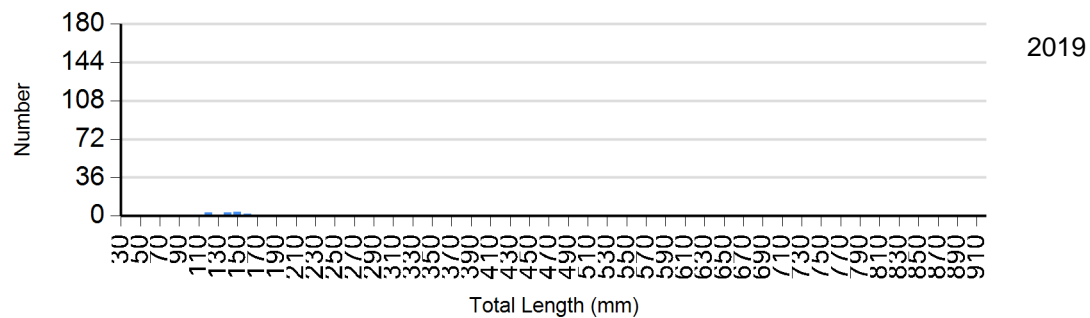
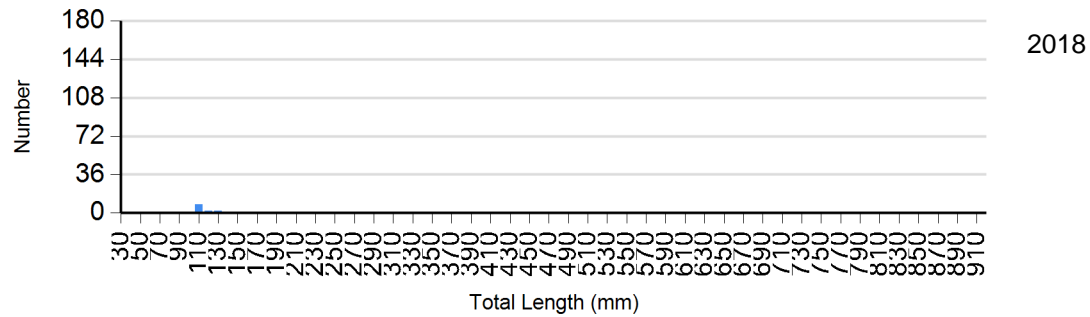
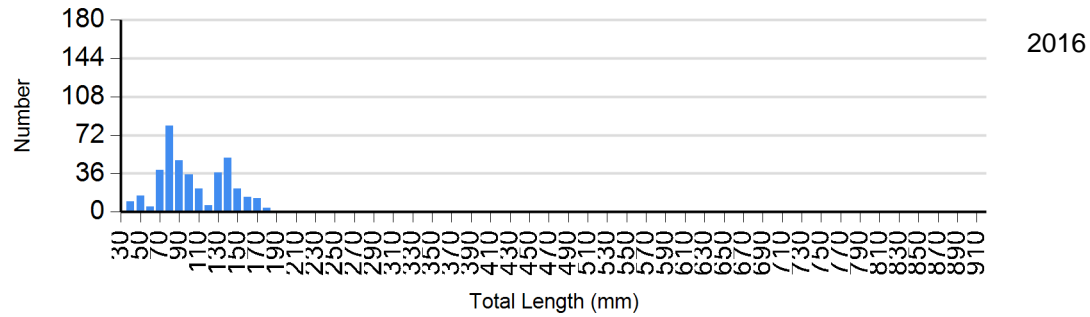
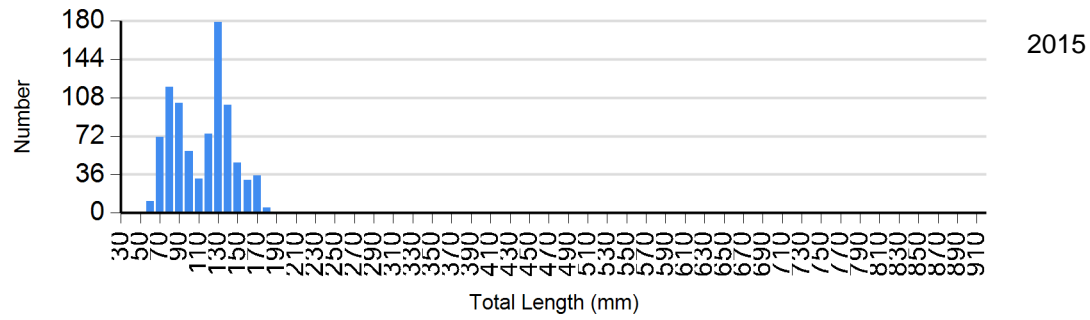
Site: 409
Species: Brown Trout



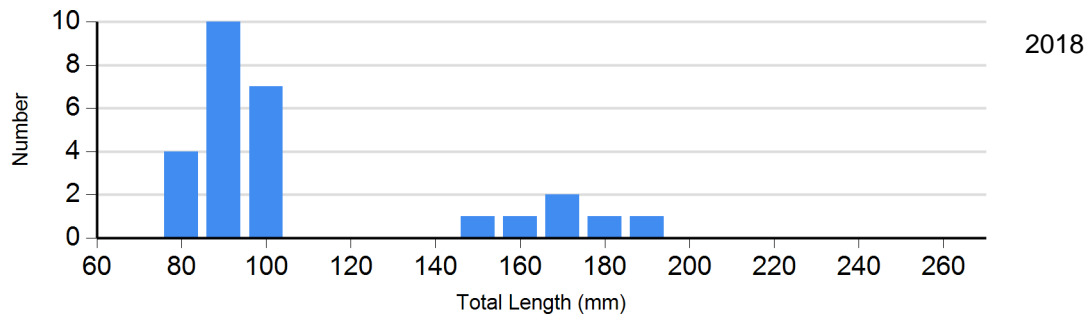
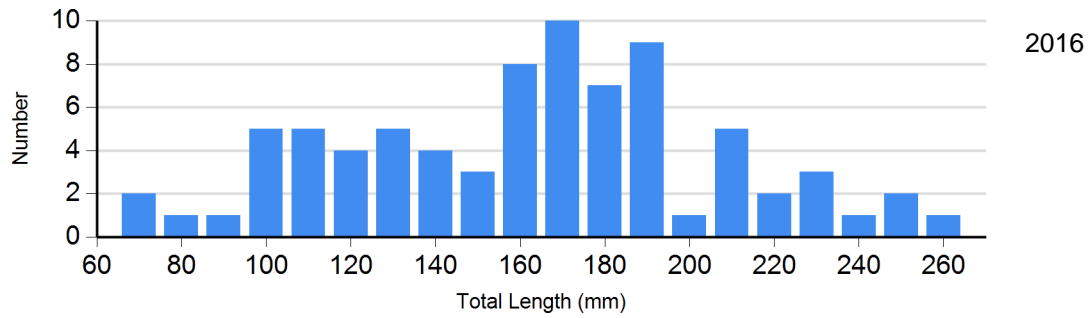
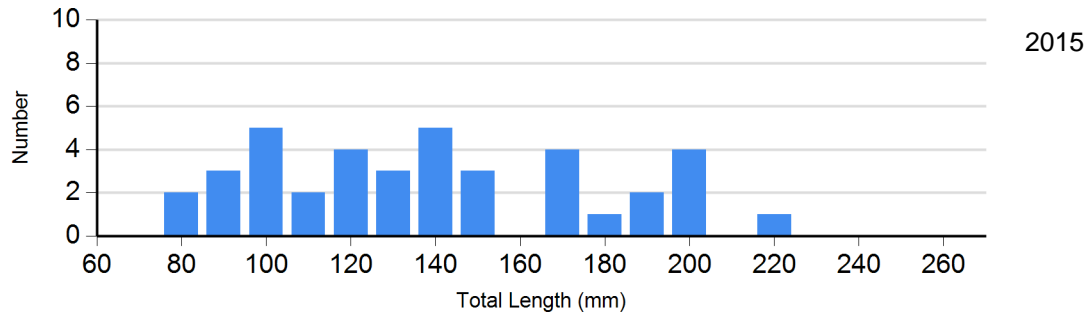
Site: 409
Species: Longnose Dace



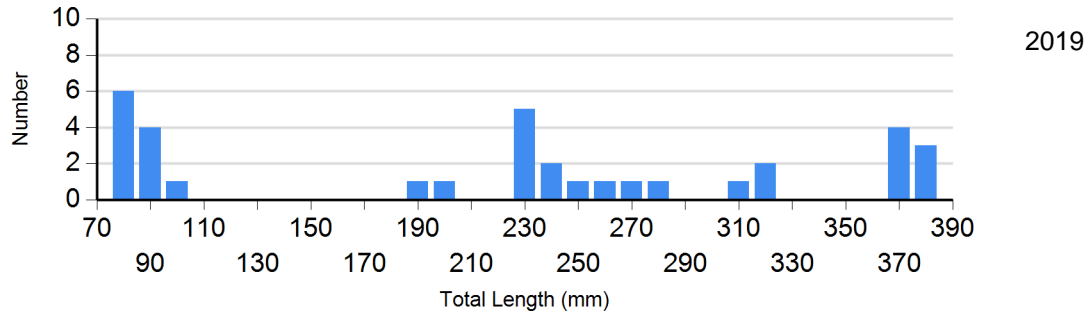
Site: 409
Species: Mountain Sucker



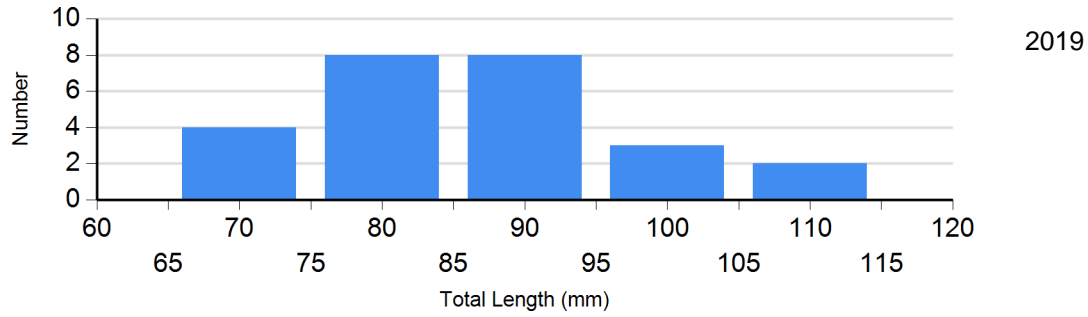
Site: 409
Species: White Sucker



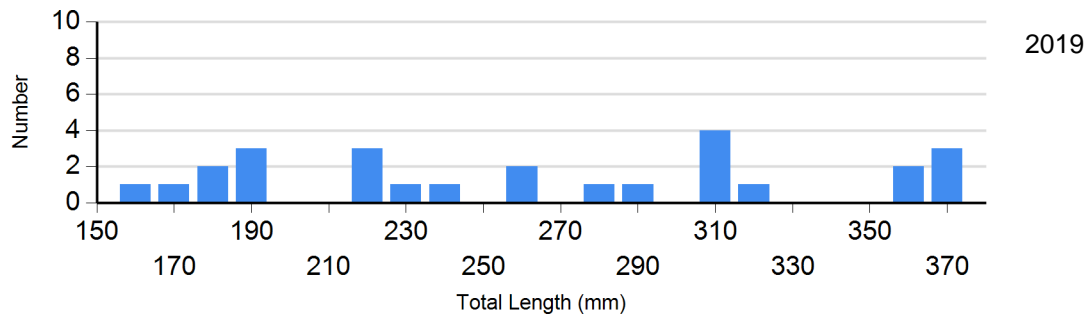
Site: 482
Species: Brown Trout



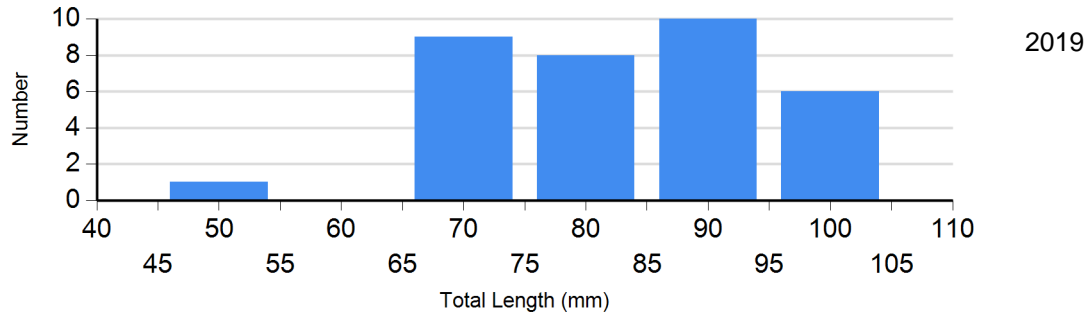
Site: 482
Species: Longnose Dace



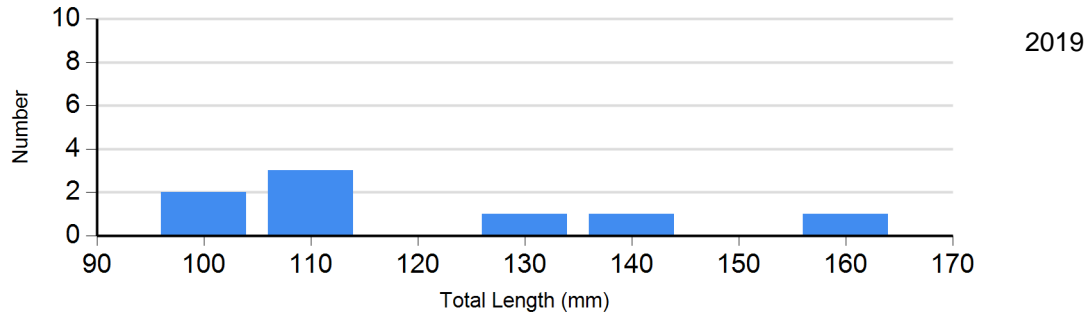
Site: 514
Species: Brown Trout



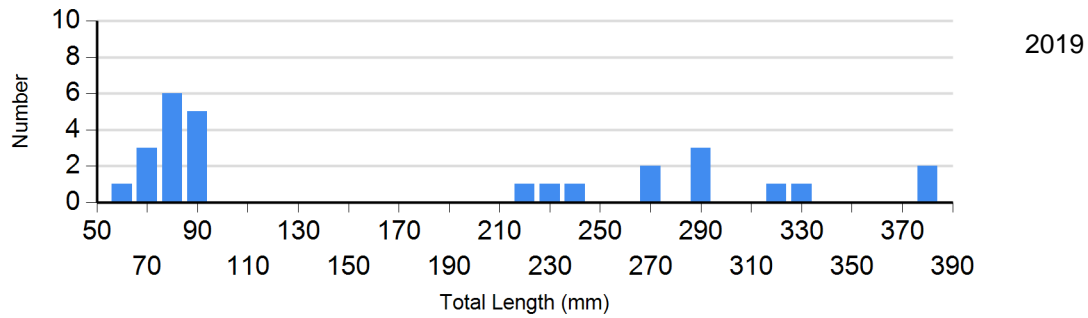
Site: 514
Species: Longnose Dace



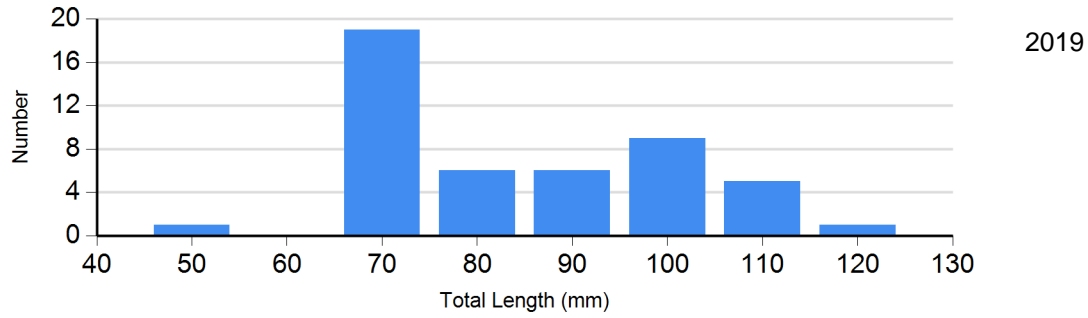
Site: 514
Species: Mountain Sucker



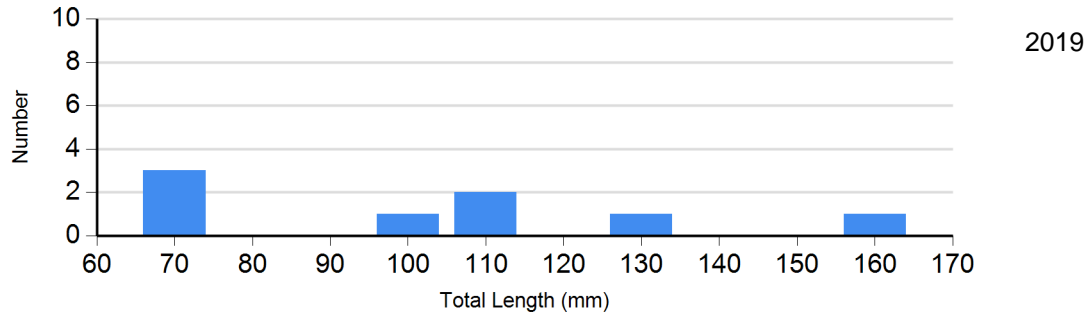
Site: 531
Species: Brown Trout



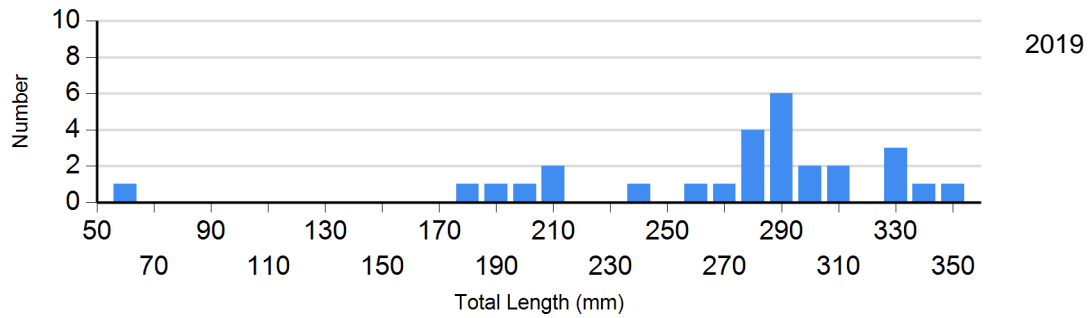
Site: 531
Species: Longnose Dace



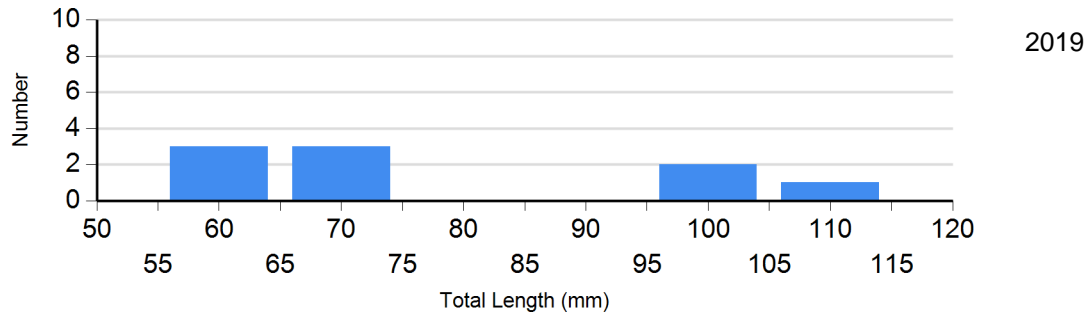
Site: 531
Species: Mountain Sucker



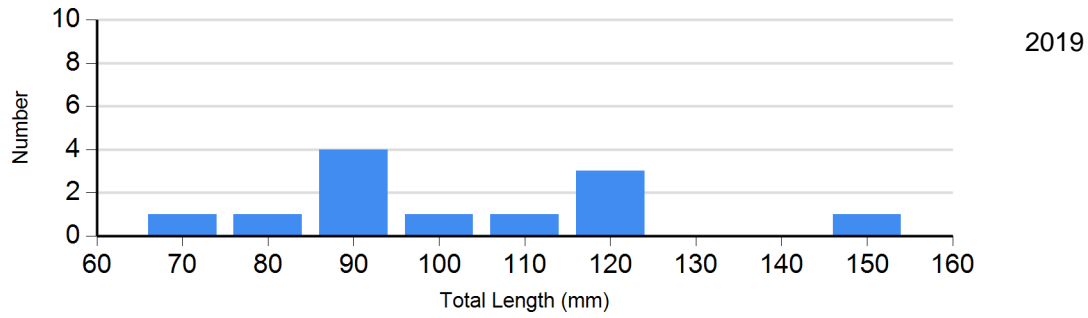
Site: 544
Species: Brown Trout



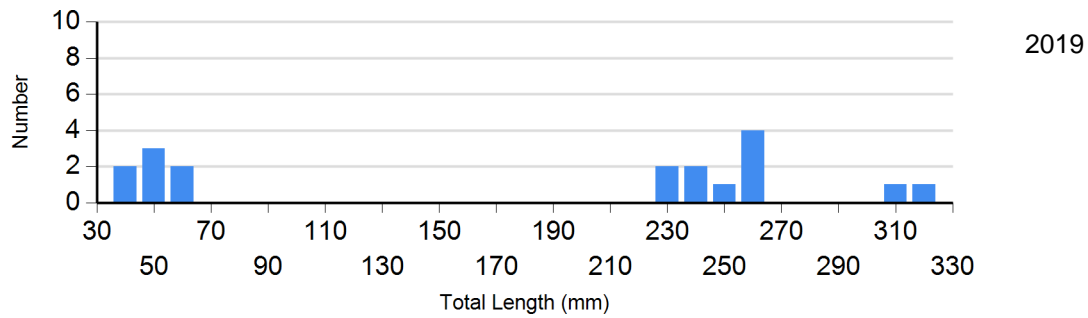
Site: 544
Species: Longnose Dace



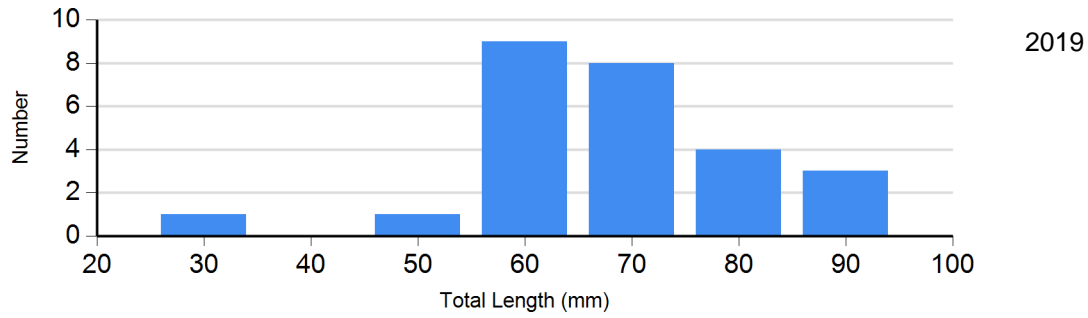
Site: 544
Species: Mountain Sucker



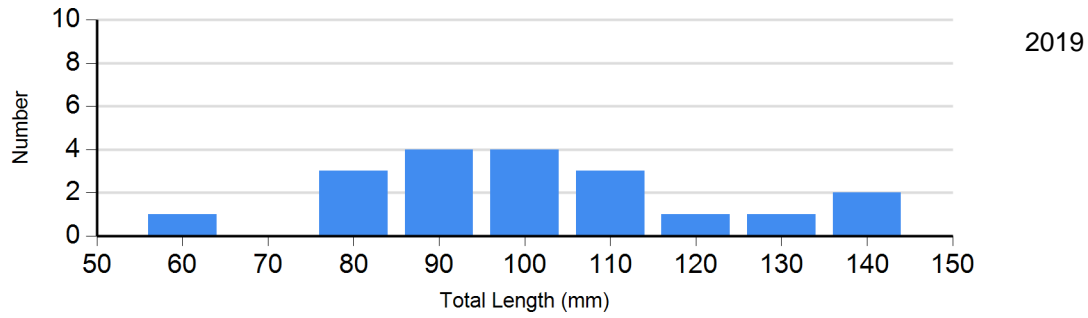
Site: 555
Species: Brown Trout



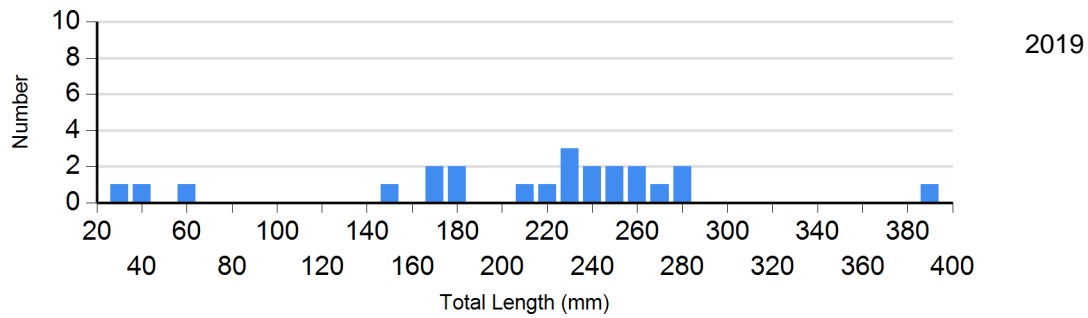
Site: 555
Species: Longnose Dace



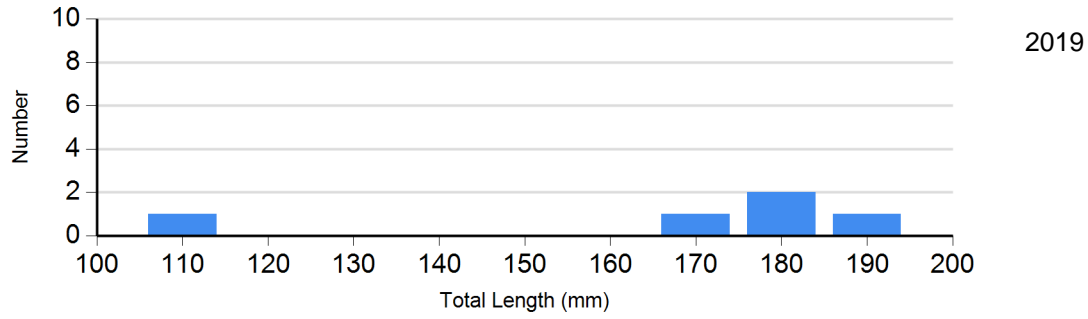
Site: 555
Species: Mountain Sucker



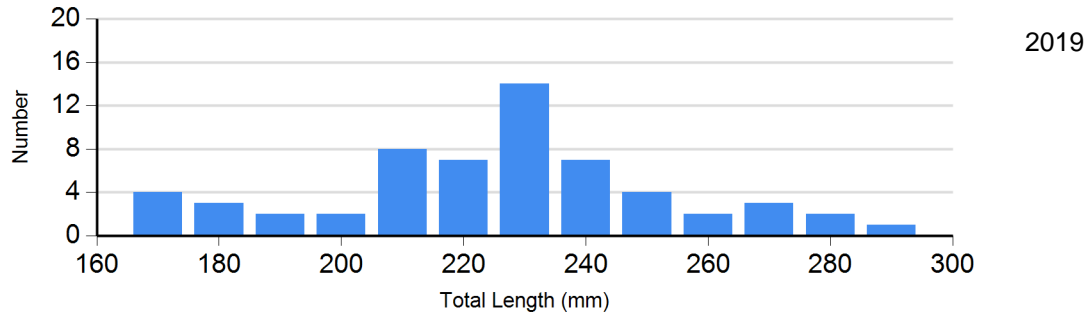
Site: 557
Species: Brown Trout



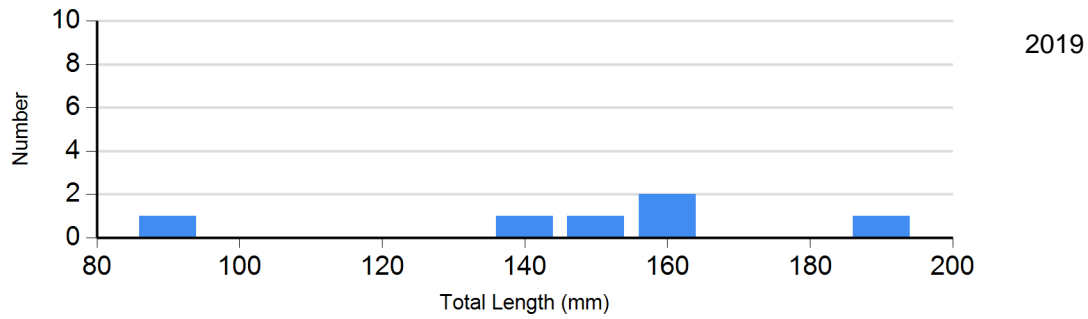
Site: 557
Species: Mountain Sucker



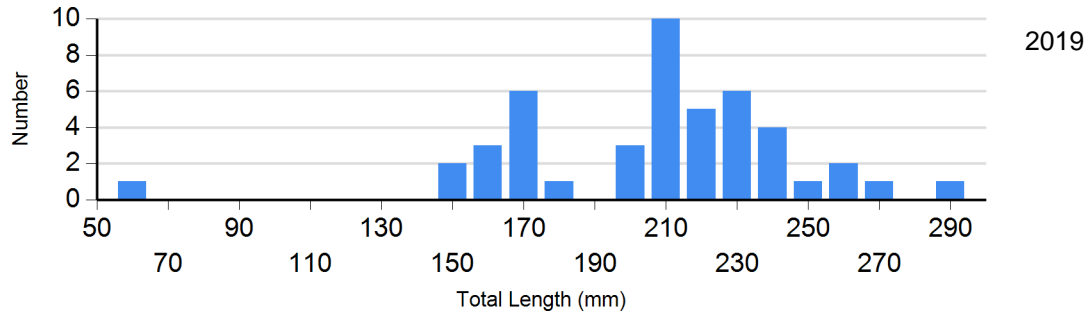
Site: 564
Species: Brown Trout



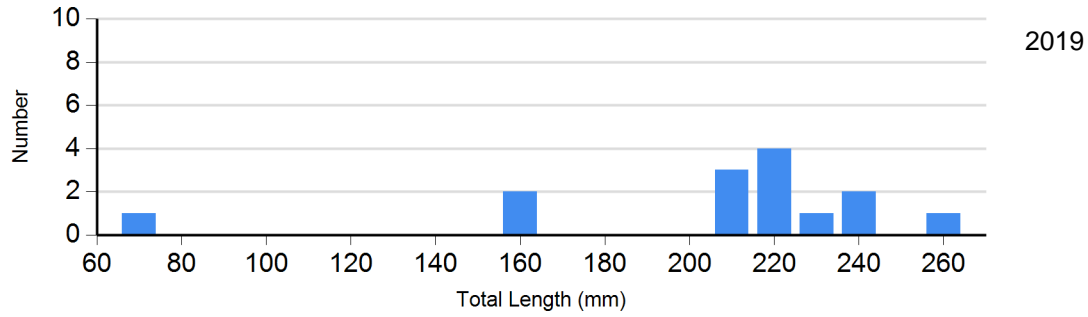
Site: 564
Species: Mountain Sucker



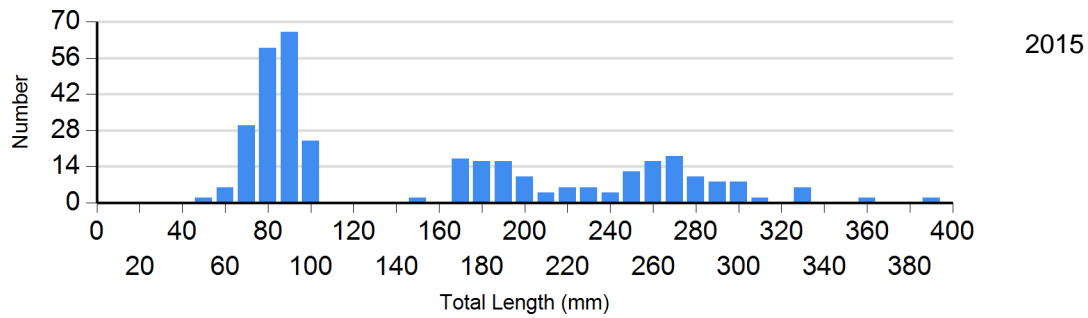
Site: 580
Species: Brown Trout

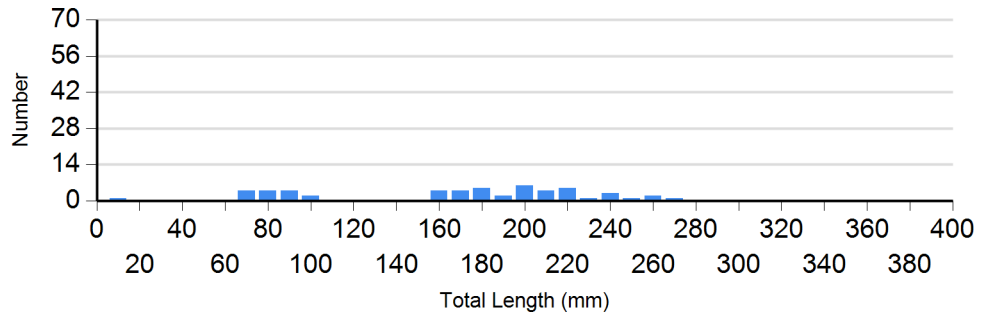
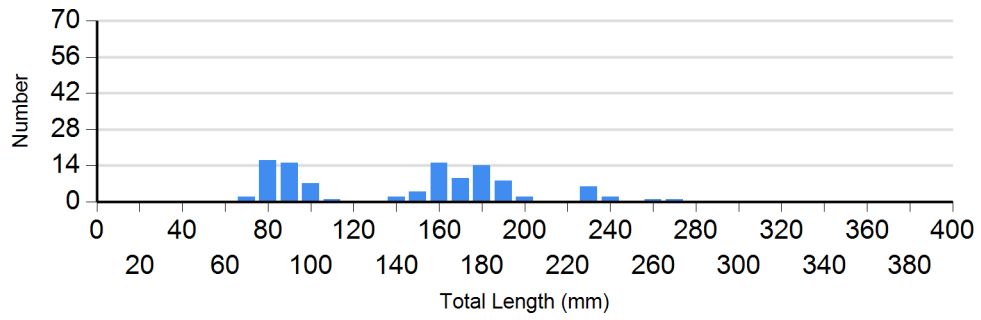


Site: 587
Species: Brown Trout

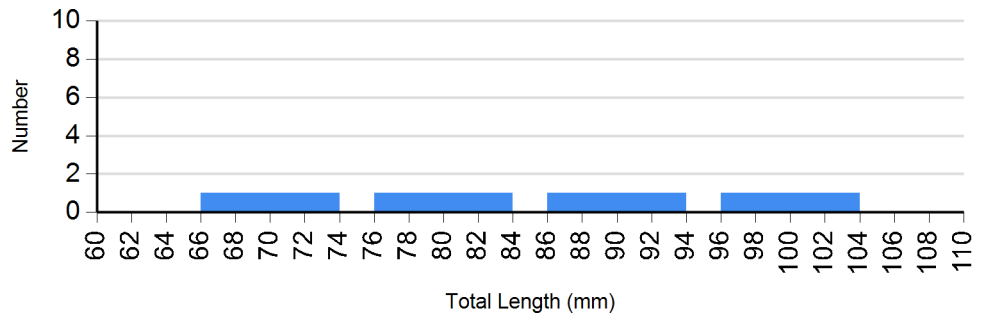


Site: 599
Species: Brown Trout

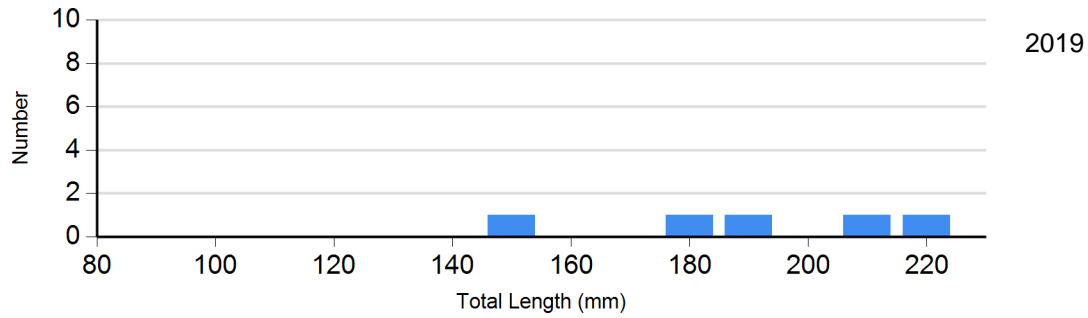
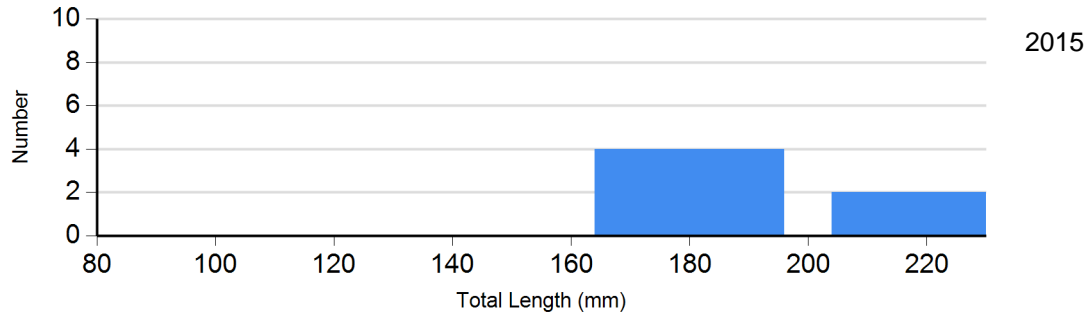




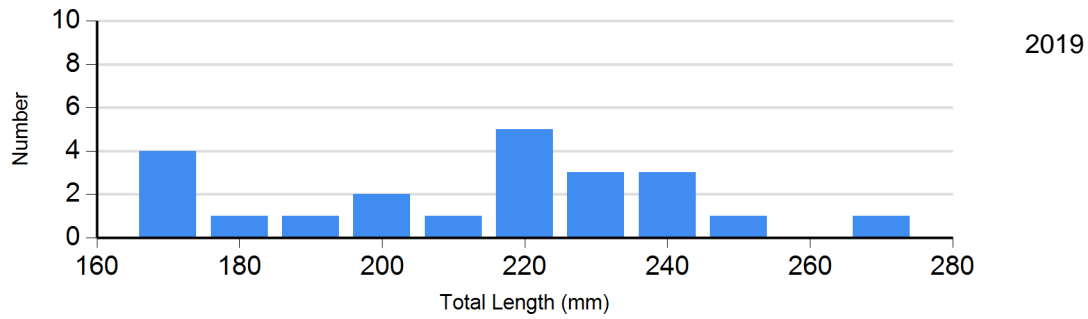
Site: 599
Species: Longnose Dace



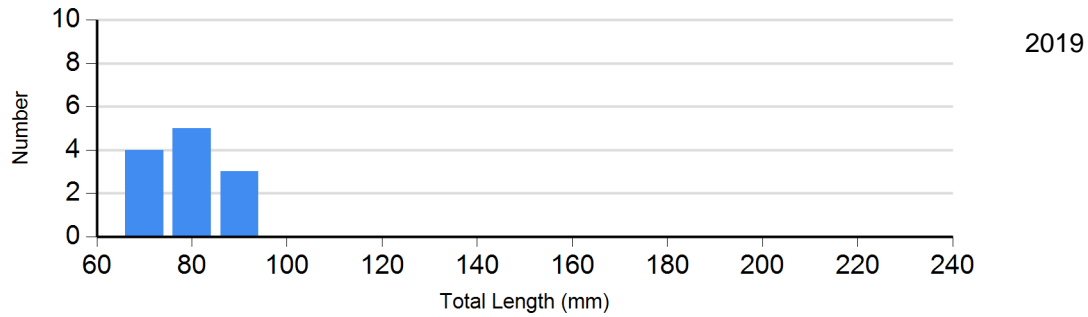
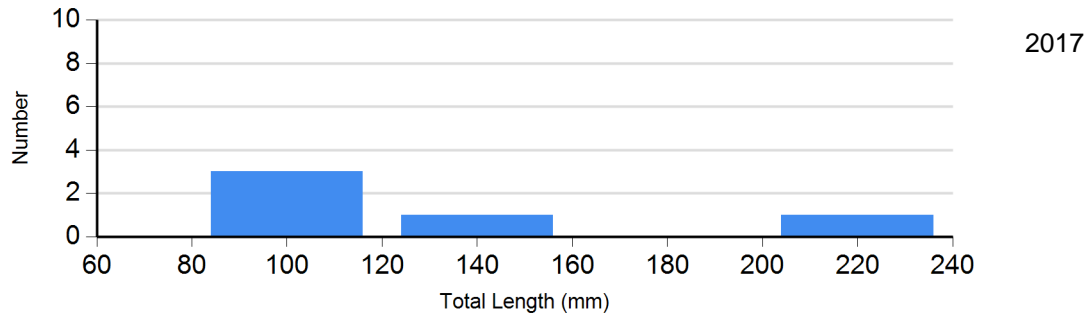
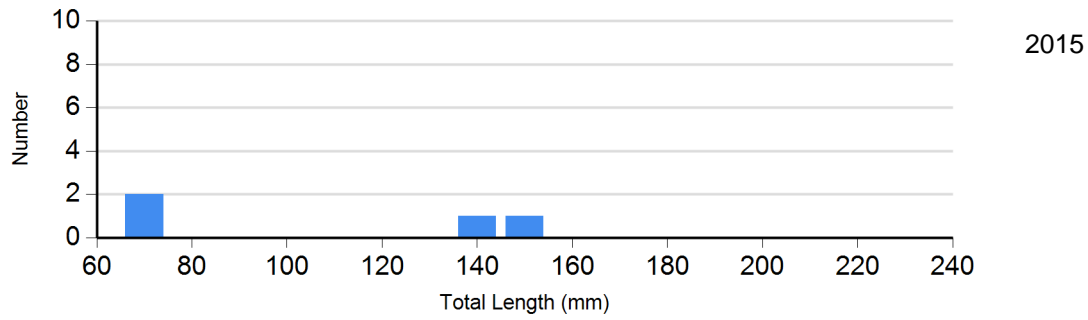
Site: 599
Species: Mountain Sucker



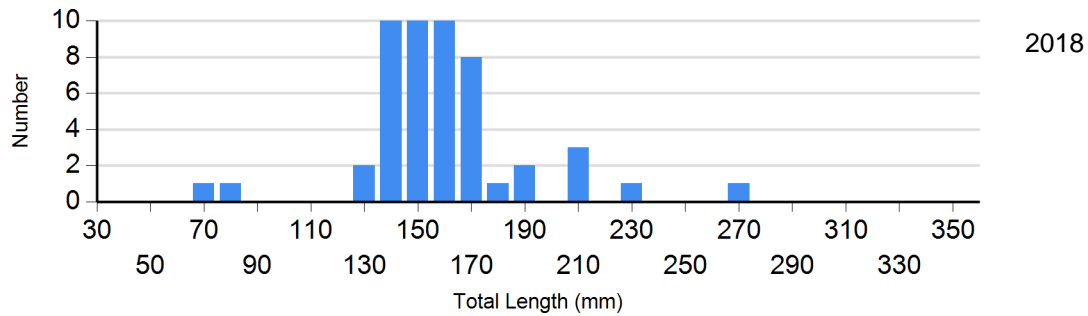
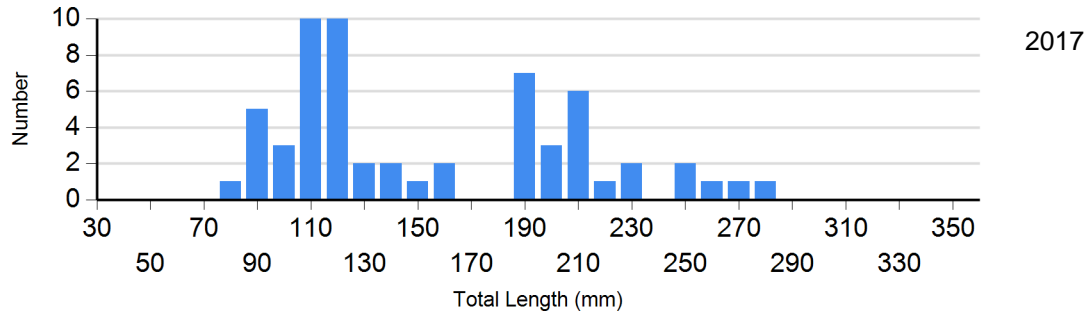
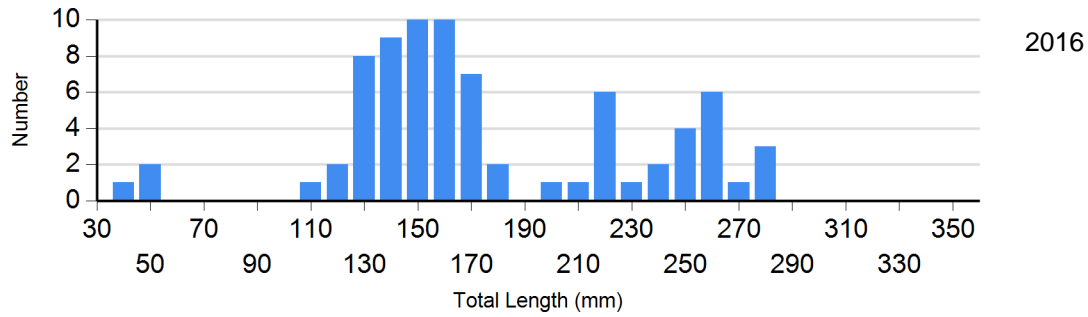
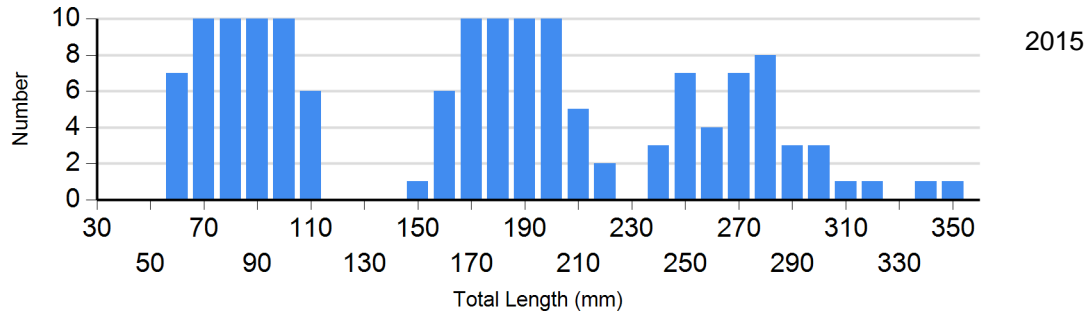
Site: 611
Species: Brown Trout

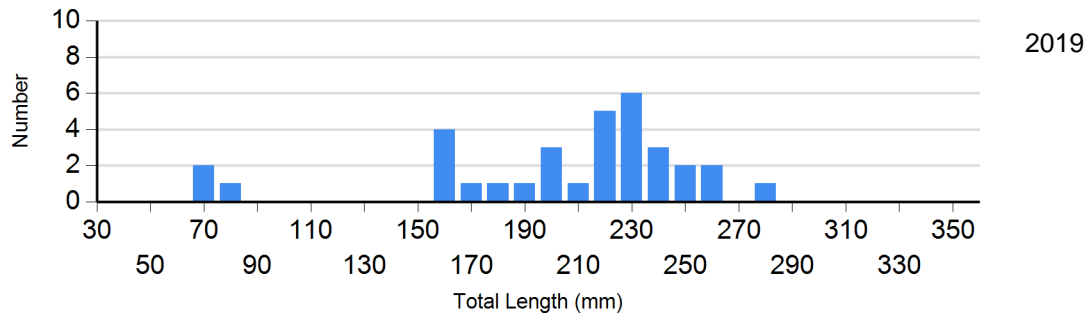


Site: 612
Species: Brook Trout

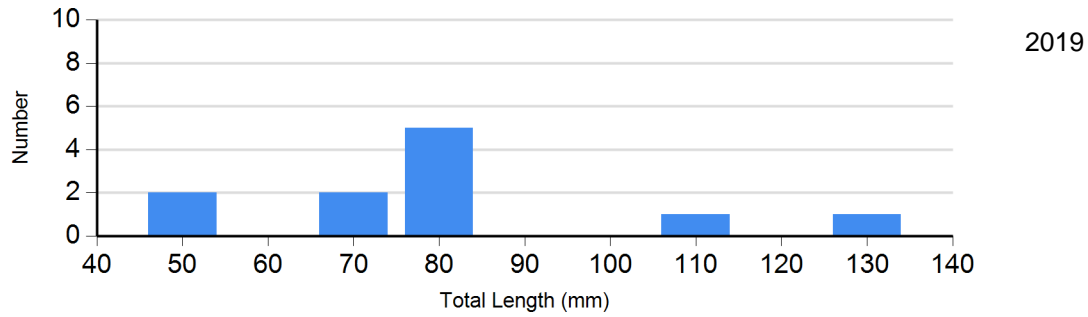


Site: 612
Species: Brown Trout

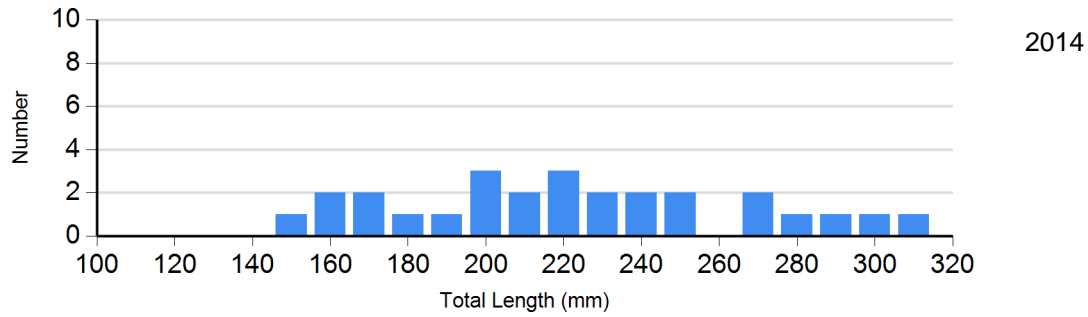


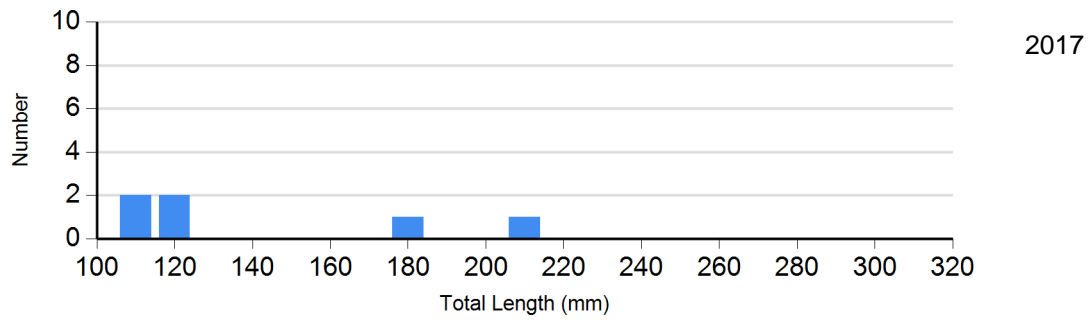


Site: 612
Species: Longnose Dace

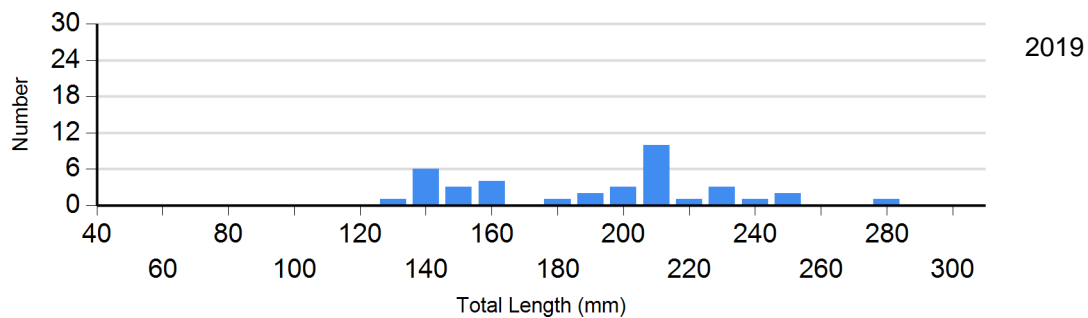
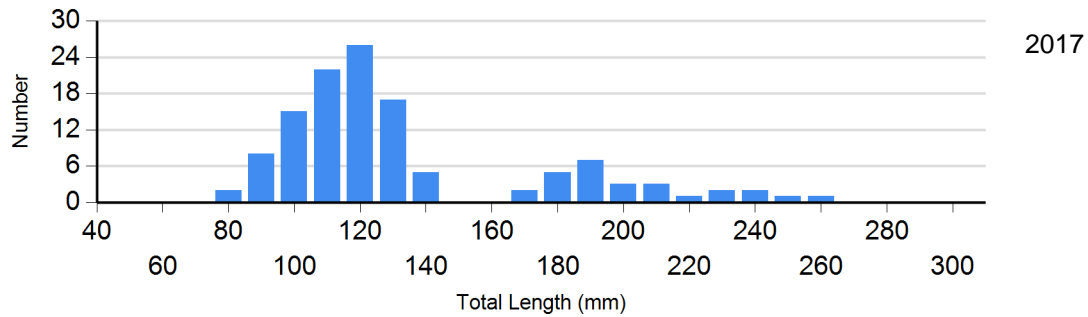
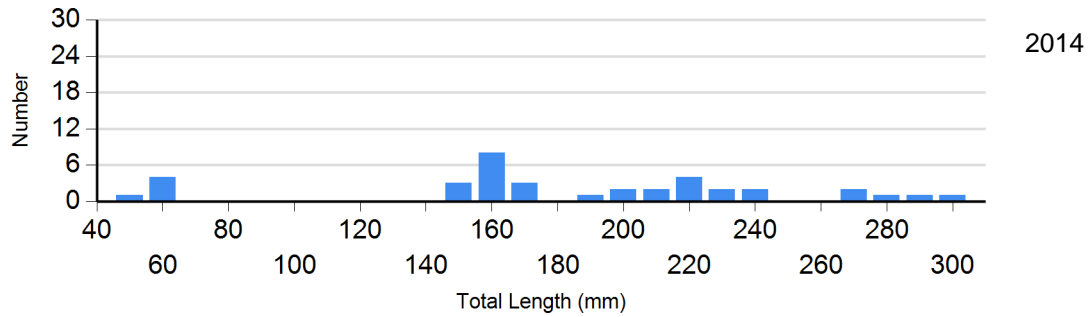


Site: 623
Species: Brook Trout

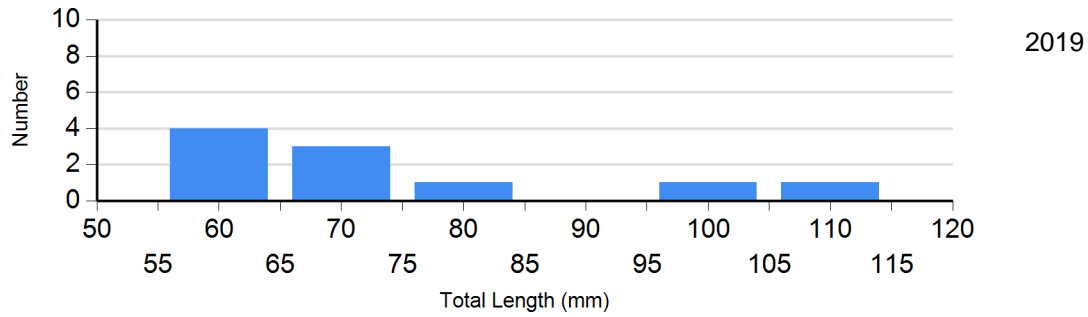
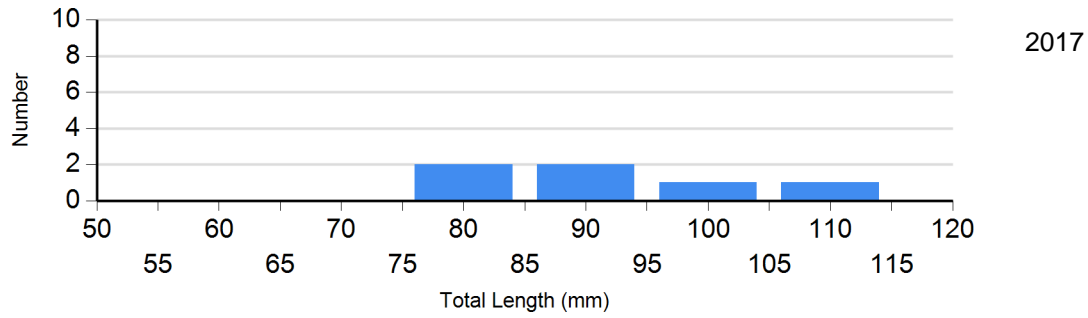




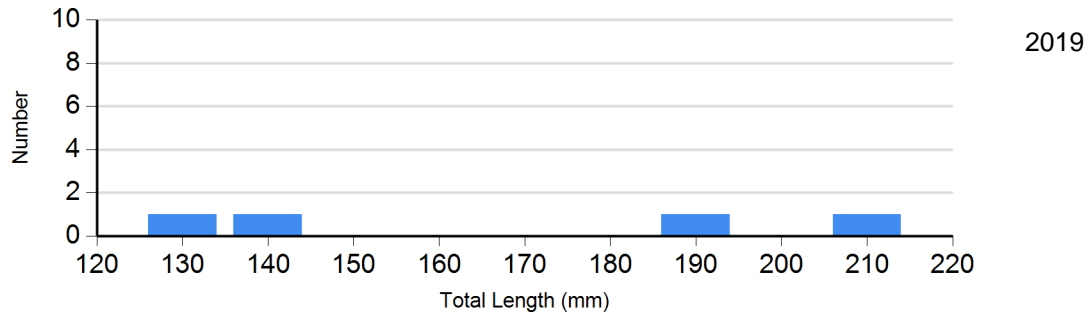
Site: 623
Species: Brown Trout



Site: 623
Species: Longnose Dace



Site: 626
Species: Brook Trout



Site: 626
Species: Brown Trout

