

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Whitewood Creek, Lawrence County
09-0056-00
2017

Table 1. Population and Biomass Estimates for Whitewood Creek

Site Number: 131

Date Sampled: 05/23/2017

Conductivity (umhos/cm):

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

Site Length (m): 100

pH:

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 10.8

Water Temperature (C): 14.5

Stream Classification: None

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)
Creek Chub	All	18	26	49	18	240	8	260	97	7.50	418	84.3	35.0
Green Sunfish	All	2	2	2	2	18	1	20	7	0.78	32	130.0	47.5
Stone Cat	All	14	13	18	14	120	3	130	49	2.59	209	102.2	24.1
White Sucker	All	17	17	18	17	157	45	170	64	39.97	274	276.1	285.4

Site Number: 295

Date Sampled: 05/23/2017

Conductivity (umhos/cm):

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

Site Length (m): 100

pH:

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 9.8

Water Temperature (C): 14.5

Stream Classification: BR0

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)
Brown Trout	<200mm	2	2	3	2	20	1	20	8	0.59	32	149.0	32.5
Brown Trout	All	2	2	3	2	20	1	20	8	0.59	32	149.0	32.5
Mountain Sucker	All	5	5	5	5	51	2	50	21	1.49	80	114.2	32.7

Site Number: 367

Site Midpoint (Latitude, Longitude): 44.47244974, -103.62471159

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR3

Date Sampled: 05/24/2017

Site Length (m): 100

Mean Width (m): 7.5

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 13.0

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)
Brown Trout	<200mm	1	1	1	1	13	1	10	5	1.06	16	190.0	89.0
Brown Trout	>=200mm	3	3	3	3	40	13	30	16	11.83	48	297.3	332.0
Brown Trout	All	4	4	4	4	53	14	40	22	12.89	64	270.5	271.3
Mountain Sucker	All	91	133	184	91	1769	46	1330	716	41.43	2140	95.7	26.2
White Sucker	All	34	38	46	34	505	88	380	205	78.30	611	91.1	173.5

Site Number: 383

Site Midpoint (Latitude, Longitude): 44.46006016, -103.62011969

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR2

Date Sampled: 05/24/2017

Site Length (m): 100

Mean Width (m): 6.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 13.0

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)
Brown Trout	>=200mm	12	12	12	12	199	75	120	81	66.63	193	313.3	374.8
Brown Trout	All	12	12	12	12	199	75	120	81	66.63	193	313.3	374.8
Creek Chub	All	6	6	6	6	100	8	60	40	6.84	97	111.8	77.0
Mountain Sucker	All	39	57	91	39	946	24	570	383	21.19	917	108.5	25.1
White Sucker	All	49	65	91	49	1078	256	650	437	228.40	1046	253.1	237.2

Site Number: 515

Site Midpoint (Latitude, Longitude): 44.41178603, -103.69411585

Date Sampled: 05/30/2017

Site Length (m): 100

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR1

Mean Width (m): 7.1

Number of Pass: 3

Conductivity

(umhos/cm):

pH:

Water Temperature (C): 11.0

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)
Brown Trout	<200mm	13	13	14	13	184	11	130	75	9.71	209	172.3	59.1
Brown Trout	>=200mm	84	84	85	84	1189	451	840	482	402.65	1352	309.3	379.2
Brown Trout	All	97	97	99	97	1373	462	970	556	412.36	1561	291.0	336.3
Mountain Sucker	All	13	31	122	13	439	15	310	178	13.02	499	135.5	33.2

Site Number: 539

Site Midpoint (Latitude, Longitude): 44.39558878, -103.70337461

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR1, RB2

Date Sampled: 05/12/2017

Site Length (m): 100

Mean Width (m): 6.1

Number of Pass: 3

Conductivity

(umhos/cm):

pH:

Water Temperature (C): 15.7

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	16	46	207	16	753	46	460	305	41.10	740	172.6	61.1
Brown Trout	>=200mm	36	36	38	36	589	176	360	239	157.34	579	309.7	299.0
Brown Trout	All	52	56	63	52	917	207	560	371	184.83	901	267.5	225.8
Cutthroat Trout	>=200mm	1	1	1	1	16	5	10	7	4.69	16	307.0	321.0
Cutthroat Trout	All	1	1	1	1	16	5	10	7	4.69	16	307.0	321.0
Longnose Dace	All	150	149	171	150	2439	27	1490	988	23.95	2397	81.0	11.0
Mountain Sucker	All	33	32	42	33	524	15	320	212	13.24	515	122.1	28.3
Rainbow Trout	>=200mm	2	2	3	2	33	32	20	13	28.49	32	433.0	974.5

Rainbow Trout All 2 2 3 2 33 32 20 13 28.49 32 433.0 974.5

Site Number: 558

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

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR1

Date Sampled: 05/24/2017

Site Length (m): 100

Mean Width (m): 6.3

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	41	41	43	41	646	26	410	262	23.52	660	148.7	40.8
Brown Trout	>=200mm	72	72	73	72	1135	154	720	460	137.92	1158	238.2	136.1
Brown Trout	All	113	113	115	113	1781	182	1130	721	162.31	1818	205.7	102.1
Mountain Sucker	All	19	19	21	19	299	16	190	121	14.29	306	152.9	53.4

Site Number: 588

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

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR1

Date Sampled: 05/12/2017

Site Length (m): 100

Mean Width (m): 4.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 18.3

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)
Brown Trout	<200mm	18	19	23	18	470	21	190	190	18.92	306	157.9	45.1
Brown Trout	>=200mm	43	43	45	43	1063	158	430	430	141.48	692	249.8	149.1
Brown Trout	All	61	63	67	61	1557	184	630	631	164.62	1014	222.7	118.4
Longnose Dace	All	1	1	5	1	25	0	10	10	0.35	16	112.0	16.0
Mountain Sucker	All	1	1	1	1	25	3	10	10	2.47	16	201.0	112.0

Site Number: 612

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

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR2

Date Sampled: 05/30/2017

Site Length (m): 100

Mean Width (m): 5.7

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 14.5

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	4	4	5	4	70	1	40	28	1.01	64	111.5	16.3
Brook Trout	>=200mm	1	1	1	1	17	2	10	7	1.45	16	220.0	93.0
Brook Trout	All	5	5	6	5	87	3	50	35	2.47	80	133.2	31.6
Brown Trout	<200mm	55	60	68	55	1049	31	600	425	27.86	965	127.2	29.7
Brown Trout	>=200mm	17	17	17	17	297	35	170	120	30.89	274	228.3	116.4
Brown Trout	All	72	75	80	72	1312	68	750	531	60.95	1207	151.0	52.0

Site Number: 623

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

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR2

Date Sampled: 05/30/2017

Site Length (m): 100

Mean Width (m): 6.2

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 11.5

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	5	5	6	5	81	2	50	33	1.84	80	129.6	25.4
Brook Trout	>=200mm	1	1	1	1	16	2	10	7	1.48	16	211.0	102.0
Brook Trout	All	6	6	7	6	97	4	60	39	3.32	97	143.2	38.2
Brown Trout	<200mm	109	110	113	109	1785	48	1100	723	42.75	1770	126.7	26.8
Brown Trout	>=200mm	13	13	13	13	211	26	130	85	22.87	209	226.7	121.5
Brown Trout	All	122	123	126	122	1996	75	1230	808	67.37	1979	137.3	37.8

Longnose Dace All 6 6 7 6 97 1 60 39 1.17 97 95.2 13.5

Site Number: 628
Site Midpoint (Latitude, Longitude): 44.34916370, -103.75287279
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK0, BR1

Date Sampled: 05/30/2017
Site Length (m): 100
Mean Width (m): 5.0
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C): 13.5
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	1	1	2	1	20	0	10	8	0.30	16	119.0	17.0
Brook Trout	All	1	1	2	1	20	0	10	8	0.30	16	119.0	17.0
Brown Trout	<200mm	115	119	125	115	2367	57	1190	959	51.02	1915	126.4	24.1
Brown Trout	>=200mm	30	30	31	30	597	63	300	242	56.14	483	219.8	105.4
Brown Trout	All	145	149	155	145	2964	124	1490	1200	110.61	2397	145.7	41.8

Site Number: 690
Site Midpoint (Latitude, Longitude): 44.31971358, -103.76779760
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK3, BR2

Date Sampled: 05/16/2017
Site Length (m): 100
Mean Width (m): 3.9
Number of Pass: 3
Conductivity (umhos/cm): 305
pH:
Water Temperature (C): 10.0
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	114	116	120	114	2974	71	1160	1205	62.97	1866	106.4	23.7
Brook Trout	>=200mm	1	1	1	1	26	2	10	10	1.83	16	201.0	80.0
Brook Trout	All	115	117	121	115	3000	74	1170	1215	66.03	1883	107.2	24.7
Brown Trout	<200mm	158	163	169	158	4179	109	1630	1693	97.55	2623	121.0	26.1
Brown Trout	>=200mm	13	13	13	13	333	42	130	135	37.36	209	220.0	125.5
Brown Trout	All	171	175	181	171	4487	156	1750	1817	139.47	2816	128.5	34.8

Site Number: 725

Site Midpoint (Latitude, Longitude): 44.29652599, -103.78427786

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK0

Date Sampled: 05/16/2017

Site Length (m): 100

Mean Width (m): 3.4

Number of Pass: 3

Conductivity (umhos/cm): 416

pH:

Water Temperature (C): 11.3

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	79	79	81	79	2330	49	790	944	43.59	1271	117.7	21.0
Brook Trout	All	80	80	82	80	2359	49	800	955	44.14	1287	117.7	21.0
Longnose Dace	All	99	112	127	99	3303	44	1120	1338	39.21	1802	76.0	13.3

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, 2007-2017

Site 131

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Oct 20, 2009	1	1-1	BR3
	May 23, 2016	1	1-5	
Brown Trout >=200mm	May 23, 2016	1	1-1	
Creek Chub	Oct 20, 2009	50	46-57	
	Nov 01, 2011	48	48-50	
	Oct 23, 2012	493	485-501	
	May 23, 2016	11	11-13	

Creek Chub	May 23, 2017	26	18-49
Fathead Minnow	Oct 20, 2009	1	1-1
	Nov 01, 2011	5	5-5
Green Sunfish	Oct 20, 2009	4	4-6
	Nov 01, 2011	22	21-26
	May 23, 2016	2	2-2
	Jul 05, 2016	2	2-2
	May 23, 2017	2	2-2
Longnose Dace	Oct 20, 2009	446	385-507
	Nov 01, 2011	222	208-236
	Oct 23, 2012	46	46-46
Mountain Sucker	Oct 20, 2009	37	27-59
	Nov 01, 2011	24	24-26
	Oct 23, 2012	8	8-9
	Jul 28, 2015	1	1-1
	Sep 09, 2015	1	1-1

Mountain Sucker	May 23, 2016	32	31-35
Stone Cat	Oct 20, 2009	18	19-26
	Nov 01, 2011	17	18-22
	Oct 23, 2012	4	4-5
	May 23, 2016	8	6-19
	May 23, 2017	13	14-18
White Sucker	Oct 20, 2009	58	34-112
	Nov 01, 2011	46	45-49
	Oct 23, 2012	60	58-64
	Sep 09, 2015	5	5-5
	May 23, 2016	31	20-62
	Jul 05, 2016	2	2-2
	May 23, 2017	17	17-18

Site 295

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Oct 21, 2009	14	14-16	

Brown Trout <200mm	Nov 02, 2011	78	76-82	
	Oct 24, 2012	8	8-10	
	Sep 22, 2015	92	89-97	
	May 31, 2016	15	15-17	
	May 23, 2017	2	2-3	
Brown Trout >=200mm	Jun 23, 2009	1	1-1	BR3
	Oct 21, 2009	10	10-11	BR3
	Sep 22, 2015	6	6-6	BR2
	May 31, 2016	8	8-8	BR2
Creek Chub	Oct 21, 2009	35	35-36	
	Nov 02, 2011	8	8-9	
Fathead Minnow	Nov 02, 2011	24	24-25	
Longnose Dace	Oct 21, 2009	4809	4172-5446	
	Nov 02, 2011	489	257-721	
	Oct 24, 2012	415	394-436	
Mountain Sucker	Jun 23, 2009	24	24-24	

Mountain Sucker	Oct 21, 2009	154	141-167
	Nov 02, 2011	29	23-43
	Oct 24, 2012	10	10-11
	Sep 22, 2015	140	37-607
	May 31, 2016	90	44-197
	Jul 05, 2016	2	2-2
	May 23, 2017	5	5-5
Stone Cat	Oct 21, 2009	4	4-4
White Sucker	Oct 21, 2009	6	6-7
	Nov 02, 2011	5	5-6
	Oct 24, 2012	24	23-28
	Sep 22, 2015	3	3-4
	Jul 05, 2016	2	2-4

Site 367

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 21, 2015	6	6-8	

Brown Trout <200mm	May 24, 2017	1	1-1	
Brown Trout >=200mm	Sep 21, 2015	5	5-5	BR2
	May 24, 2017	3	3-3	BR3
Longnose Dace	Jun 23, 2009	1	1-1	
Mountain Sucker	Jun 23, 2009	51	51-51	
	Sep 21, 2015	254	213-295	
	May 24, 2017	133	91-184	
White Sucker	Sep 21, 2015	1	1-2	
	May 24, 2017	38	34-46	

Site 383

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	May 20, 2016	4	4-4	
Brown Trout >=200mm	Jul 24, 2014	1	1-2	BR3
	May 20, 2016	12	12-12	BR2
	May 23, 2016	11	11-11	BR3
	May 24, 2017	12	12-12	BR2

Creek Chub	May 23, 2016	5	5-5
	May 24, 2017	6	6-6
Mountain Sucker	Jul 24, 2014	340	331-349
	May 20, 2016	1208	419-2018
	May 23, 2016	527	509-545
	May 24, 2017	57	39-91
White Sucker	Jul 24, 2014	1	1-2
	May 20, 2016	1	1-1
	May 23, 2016	50	49-53
	May 24, 2017	65	49-91

Site 515

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 12, 2009	11	11-11	
	Jun 01, 2016	21	21-22	
	Jul 06, 2016	13	13-15	
	May 30, 2017	13	13-14	

Brown Trout >=200mm	Aug 12, 2009	17	17-17	BR2
	Jul 29, 2014	22	22-23	BR2
	Jun 01, 2016	47	47-48	BR1
	Jul 06, 2016	79	76-84	BR2
	May 30, 2017	84	84-85	BR1
Cutthroat Trout >=200mm	Jun 01, 2016	1	1-2	
	Jul 06, 2016	1	1-1	
Longnose Dace	Jun 01, 2016	351	352-378	
Mountain Sucker	Aug 12, 2009	91	91-91	
	Jul 29, 2014	624	217-1204	
	Jun 01, 2016	105	82-133	
	Jul 06, 2016	284	217-351	
	May 30, 2017	31	13-122	
Rainbow Trout >=200mm	Jul 29, 2014	3	3-4	RB2
	Jun 01, 2016	2	2-3	RB2

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 19, 2016	1	1-1	
Brook Trout >=200mm	Jul 11, 2013	1	1-1	BK3
Brown Trout <200mm	Jul 11, 2013	2	2-4	
	May 19, 2016	26	26-28	
	May 12, 2017	46	16-207	
Brown Trout >=200mm	Aug 12, 2009	15	15-15	BR2
	Jul 11, 2013	32	31-36	BR1
	Jul 21, 2014	14	14-14	BR2
	May 19, 2016	24	24-25	BR2
	May 12, 2017	36	36-38	BR1
Cutthroat Trout >=200mm	May 19, 2016	1	1-2	
	May 12, 2017	1	1-1	
Longnose Dace	Jul 21, 2014	81	52-130	
	May 12, 2017	149	150-171	
Mountain Sucker	Aug 12, 2009	91	91-91	

Mountain Sucker	Jul 11, 2013	108	71-160	
	Jul 21, 2014	43	43-43	
	May 19, 2016	119	55-258	
	May 12, 2017	32	33-42	
Rainbow Trout >=200mm	Aug 12, 2009	2	2-2	RB2
	Jul 21, 2014	1	1-1	RB2
	May 19, 2016	1	1-1	RB2
	May 12, 2017	2	2-3	RB2

Site 558

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 19, 2016	3	3-3	
Brown Trout <200mm	Jul 16, 2008	4	4-4	
	Jul 12, 2013	43	42-46	
	Jul 28, 2014	15	15-17	
	May 19, 2016	151	133-169	
	Jul 08, 2016	124	120-130	

Brown Trout <200mm	May 24, 2017	41	41-43	
Brown Trout >=200mm	Jul 16, 2008	12	12-12	BR2
	Jul 12, 2013	55	55-56	BR1
	Jul 28, 2014	33	33-34	BR1
	May 19, 2016	55	55-55	BR1
	Jul 08, 2016	60	60-61	BR1
	May 24, 2017	72	72-73	BR1
Longnose Dace	Jul 28, 2014	27	25-32	
	May 19, 2016	14	15-19	
Mountain Sucker	Jul 16, 2008	7	7-7	
	Jul 12, 2013	14	13-19	
	Jul 28, 2014	38	37-42	
	May 19, 2016	28	15-77	
	Jul 08, 2016	96	87-107	
	May 24, 2017	19	19-21	
Rainbow Trout >=200mm	Jul 16, 2008	3	3-3	RB2

Rainbow Trout >=200mm

Jul 28, 2014

1

1-1

RB2

Site 588

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 01, 2016	1	1-1	
	Jul 06, 2016	1	1-1	
Brook Trout >=200mm	Sep 01, 2011	1	1-1	BK3
	Aug 25, 2015	1	1-1	BK3
	Jul 06, 2016	1	1-2	BK3
Brown Trout <200mm	Jul 15, 2008	7	7-7	
	Sep 01, 2011	64	59-72	
	Aug 27, 2013	31	31-32	
	Jul 28, 2014	16	16-17	
	Aug 25, 2015	28	19-53	
	Jun 01, 2016	47	46-50	
	Jul 06, 2016	21	21-23	
	May 12, 2017	19	18-23	

Brown Trout >=200mm	Jul 15, 2008	33	33-33	BR1
	Sep 01, 2011	22	15-44	BR3
	Aug 27, 2013	44	42-49	BR1
	Jul 28, 2014	43	43-44	BR1
	Aug 25, 2015	58	56-62	BR3
	Jun 01, 2016	69	69-71	BR1
	Jul 06, 2016	60	59-63	BR1
	May 12, 2017	43	43-45	BR1
Longnose Dace	Sep 01, 2011	3	3-5	
	Aug 27, 2013	1	1-2	
	May 12, 2017	1	1-5	
Mountain Sucker	Aug 27, 2013	2	2-4	
	Jul 28, 2014	2	2-4	
	Aug 25, 2015	6	6-7	
	Jul 06, 2016	2	2-2	
	May 12, 2017	1	1-1	

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	
Brook Trout >=200mm	Aug 30, 2011	4	4-5	BK2
	Aug 28, 2013	1	1-1	BK3
	Jul 08, 2016	2	2-2	BK3
	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	

Brown Trout <200mm	May 30, 2017	60	55-68	
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
	May 30, 2017	17	17-17	BR2
Longnose Dace	Aug 25, 2015	2	2-3	

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	
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	

Brown Trout <200mm	May 30, 2017	110	109-113	
Brown Trout >=200mm	Jul 22, 2014	27	17-58	BR1
	May 30, 2017	13	13-13	BR2
Longnose Dace	May 30, 2017	6	6-7	

Site 628

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 17, 2009	12	12-12	
	Jul 22, 2014	4	4-5	
	May 30, 2017	1	1-2	
Brown Trout <200mm	Aug 17, 2009	58	58-58	
	Jul 22, 2014	74	64-88	
	May 30, 2017	119	115-125	
Brown Trout >=200mm	Aug 17, 2009	34	34-34	BR1
	Jul 22, 2014	36	36-36	BR1
	May 30, 2017	30	30-31	BR1

Site 690

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 12, 2008	48	48-48	
	Jun 08, 2015	79	75-86	
	May 24, 2016	58	58-60	
	May 16, 2017	116	114-120	
Brook Trout >=200mm	Aug 12, 2008	5	5-5	BK2
	Jun 08, 2015	5	5-5	BK2
	May 24, 2016	2	2-3	BK3
	May 16, 2017	1	1-1	BK3
Brown Trout <200mm	Aug 12, 2008	5	5-5	
	Jun 08, 2015	37	35-42	
	May 24, 2016	94	94-96	
	May 16, 2017	163	158-169	
Brown Trout >=200mm	Jun 08, 2015	25	23-30	BR1
	May 24, 2016	21	21-21	BR1
	May 16, 2017	13	13-13	BR2

Longnose Dace	Jun 08, 2015	1	1-1
Mountain Sucker	Jul 05, 2016	301	284-318

Site 725

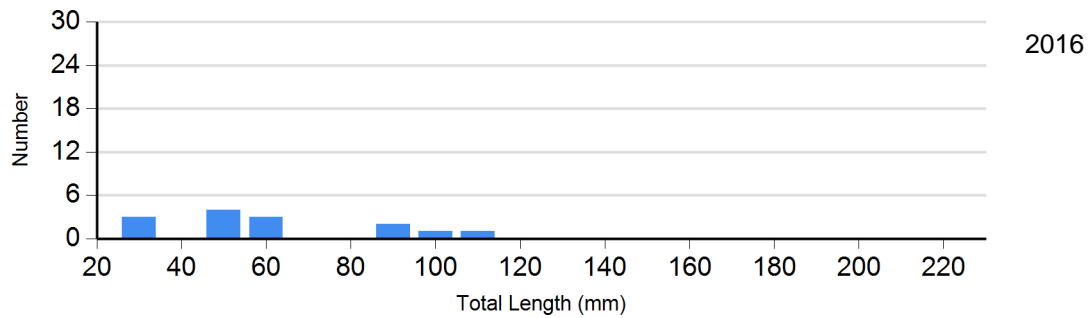
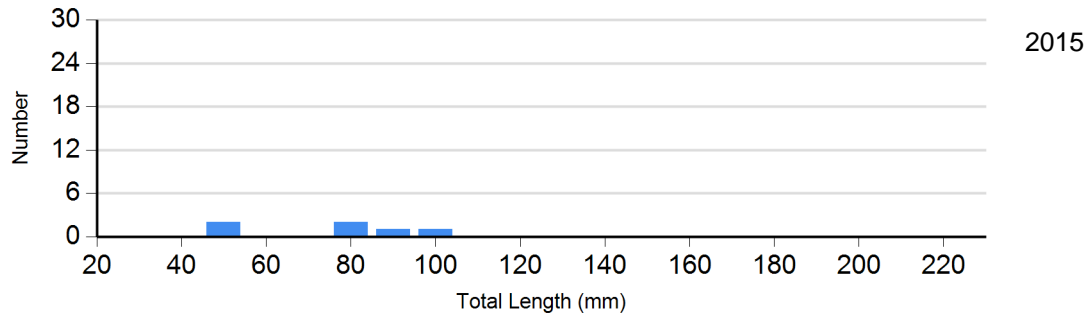
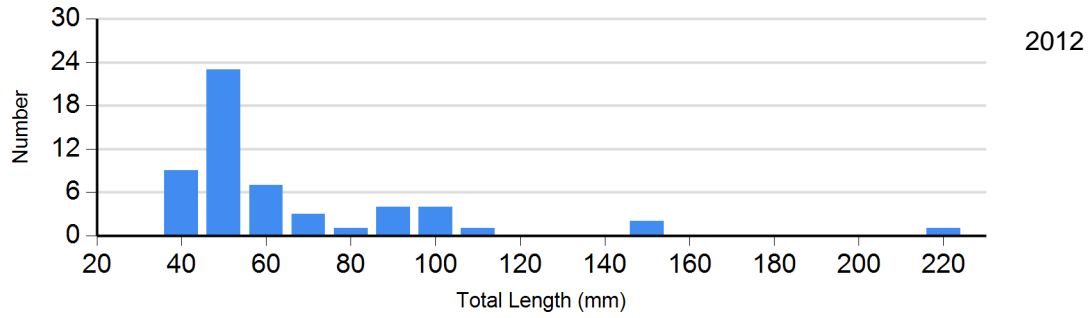
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 16, 2017	79	79-81	
Longnose Dace	May 16, 2017	112	99-127	

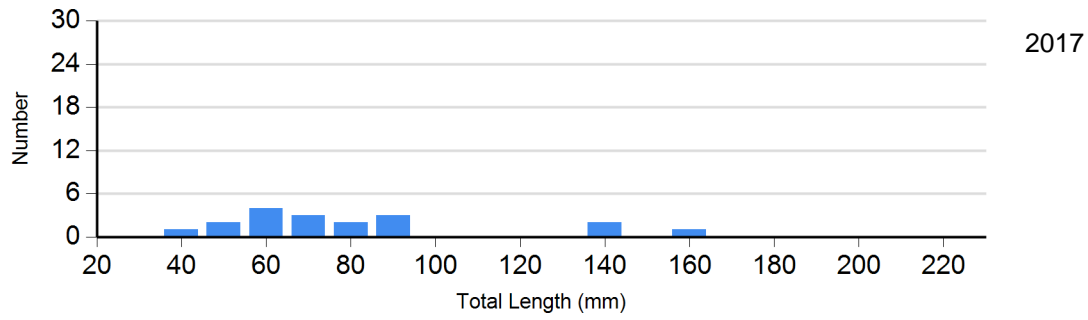
Length Frequency Distribution

Length frequency histogram of species sampled by year.

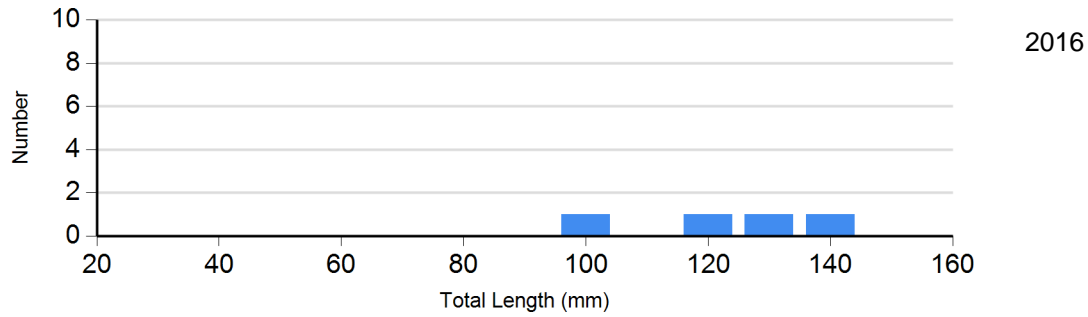
Site: 131

Species: Creek Chub

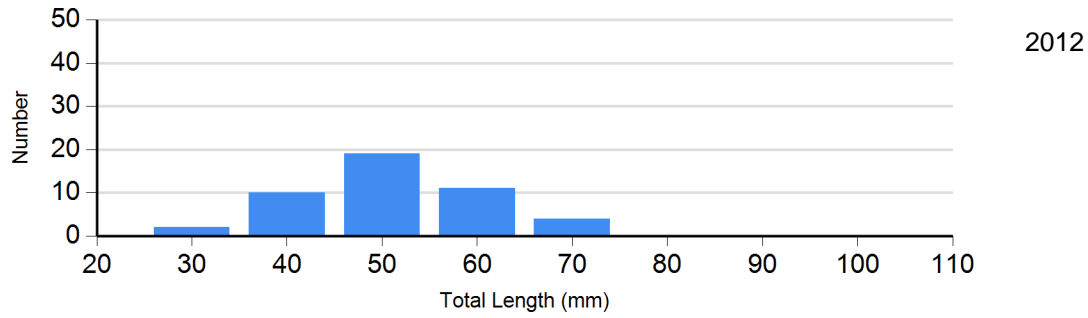


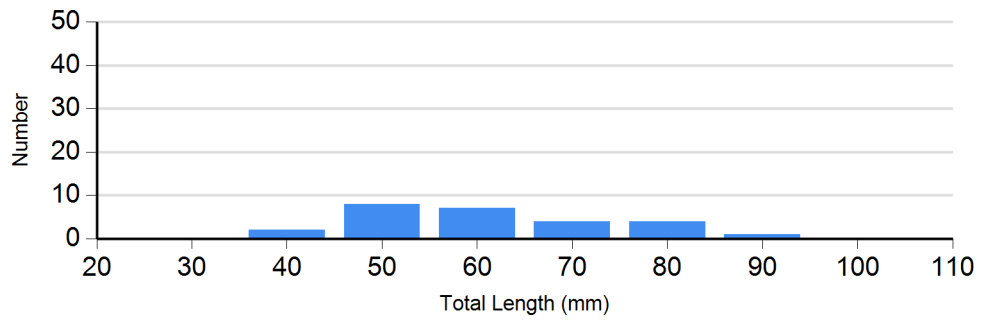
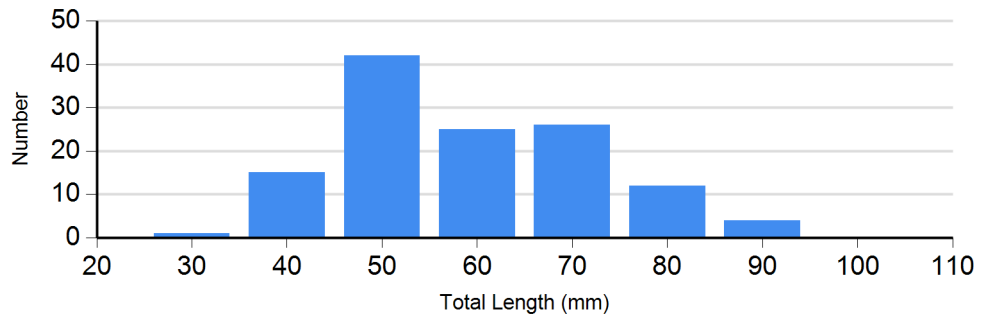
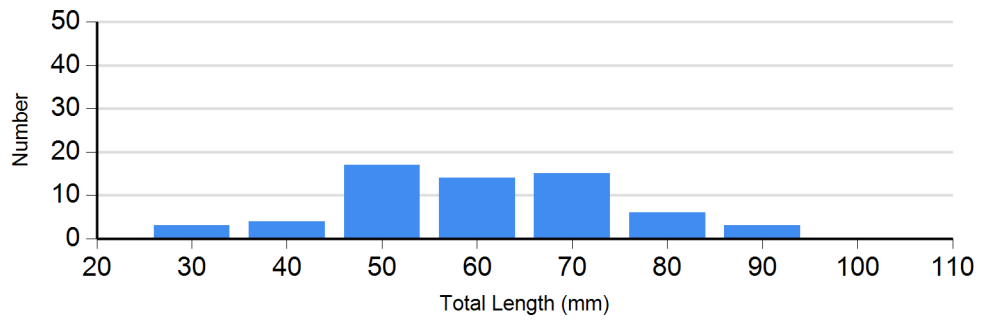


Site: 131
Species: Green Sunfish

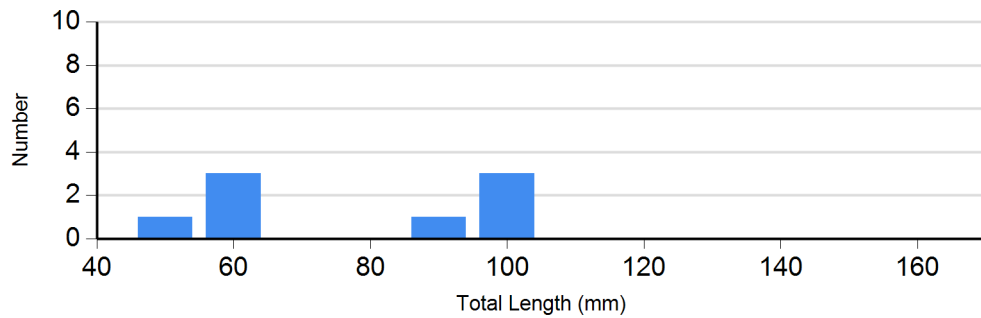


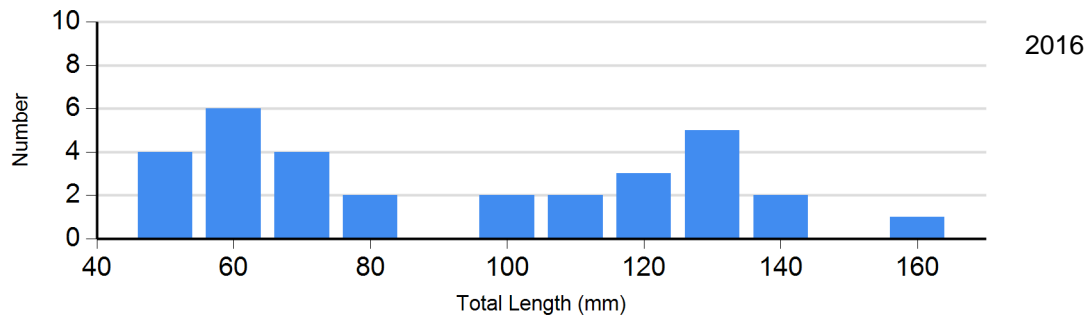
Site: 131
Species: Longnose Dace



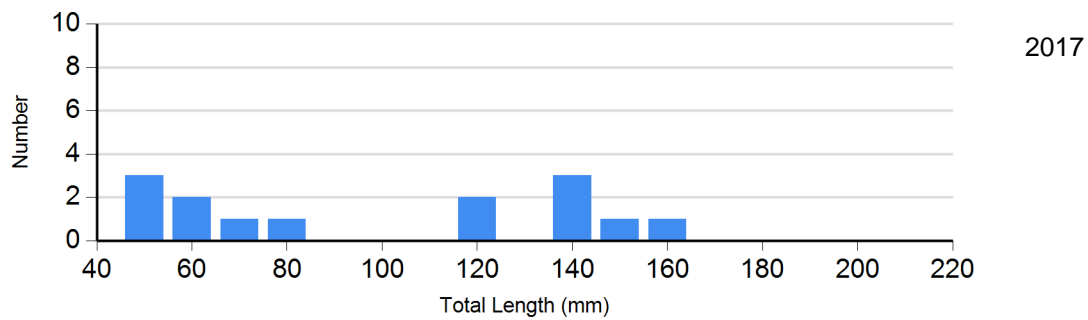
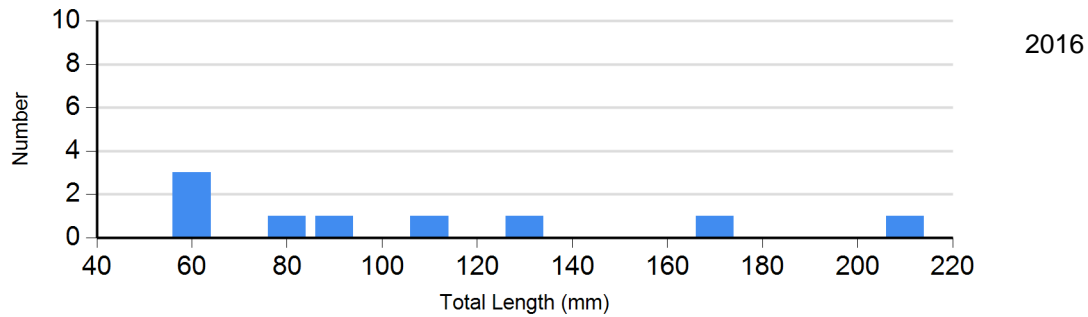
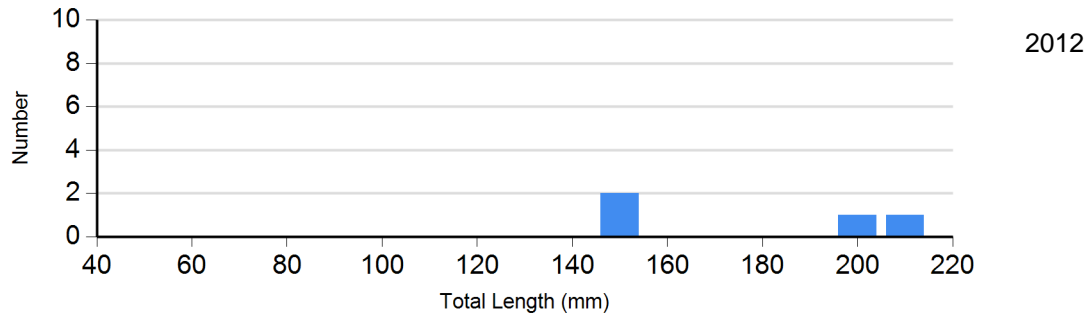


Site: 131
Species: Mountain Sucker

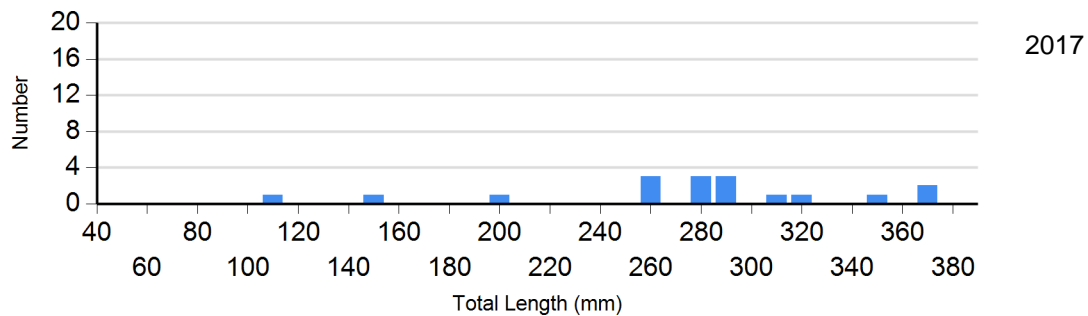
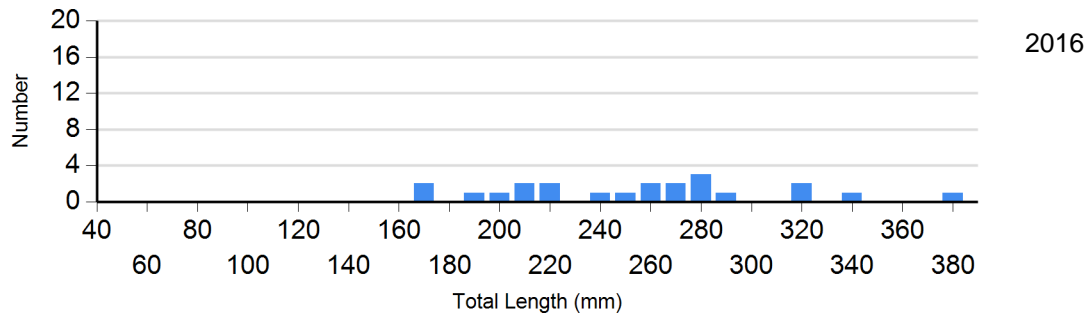
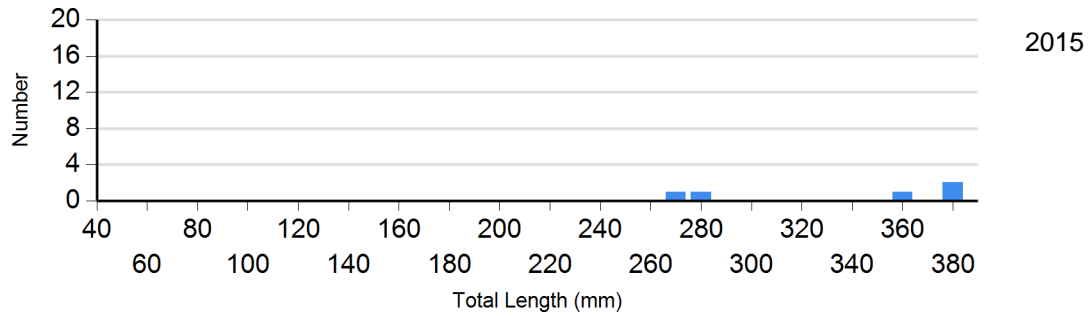
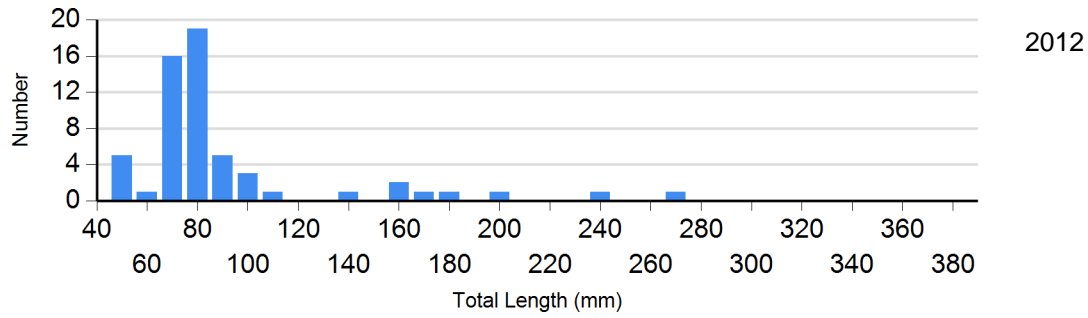




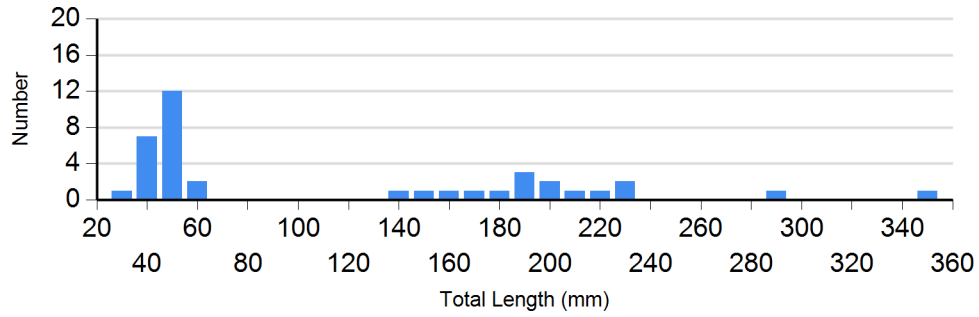
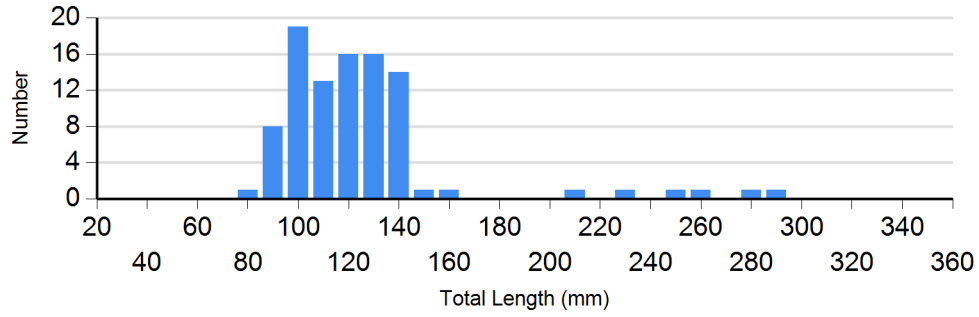
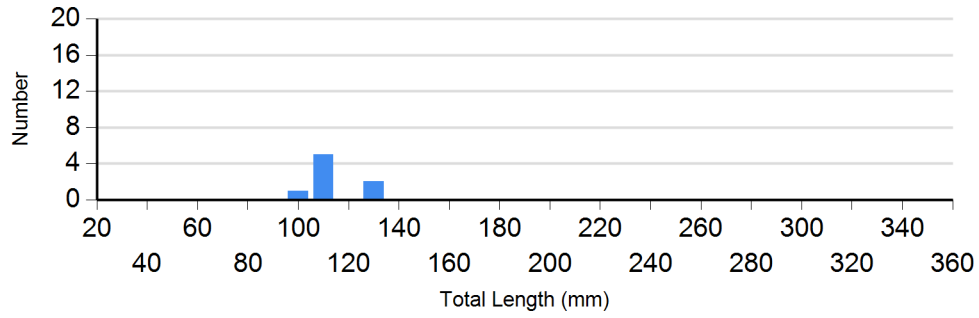
Site: 131
Species: Stone Cat



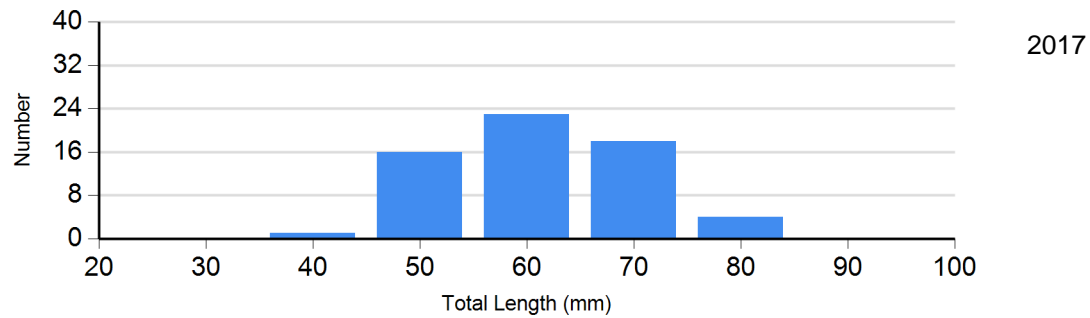
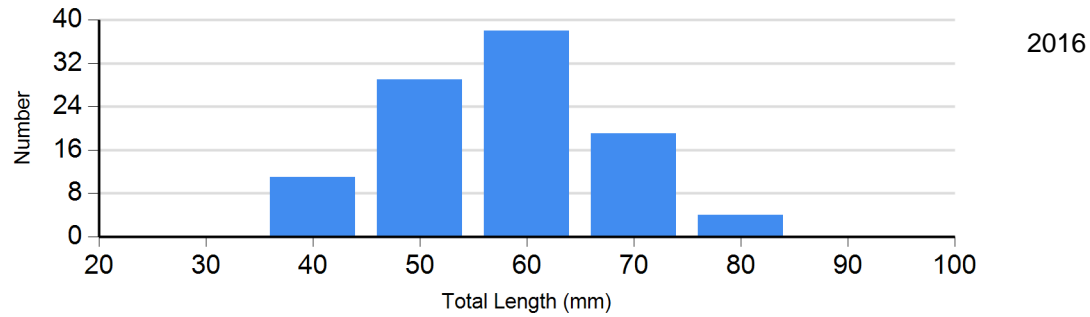
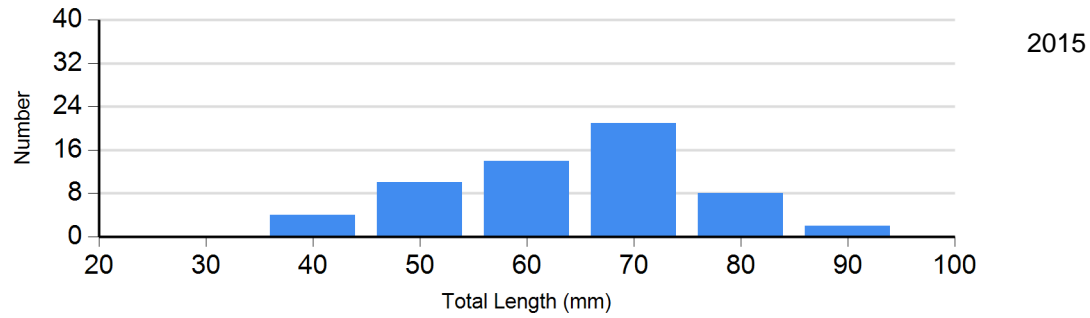
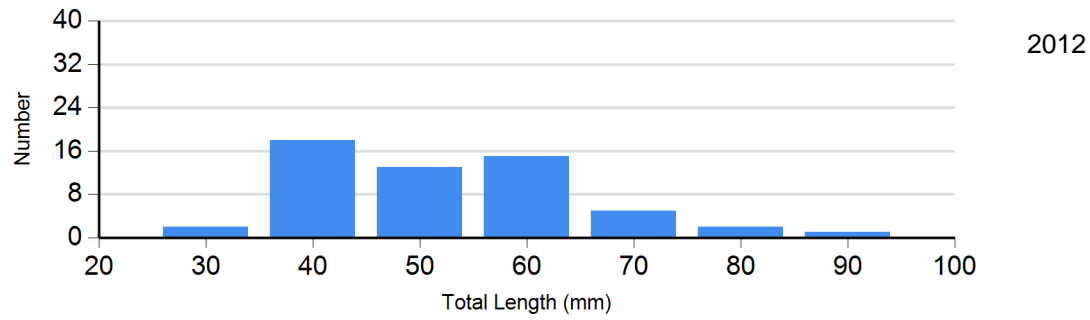
Site: 131
Species: White Sucker



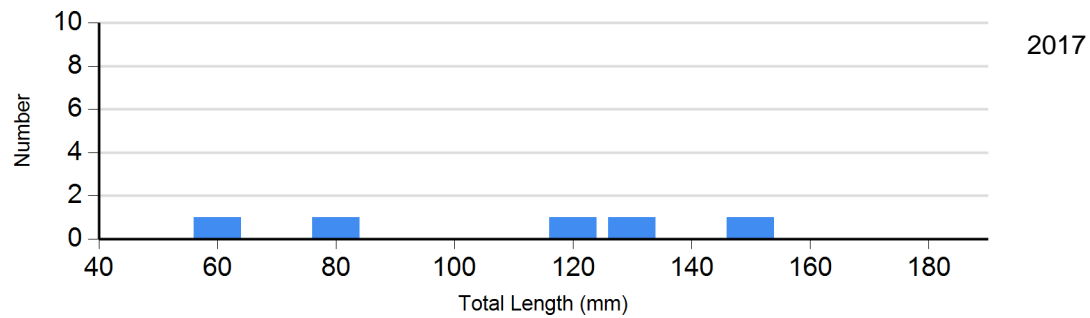
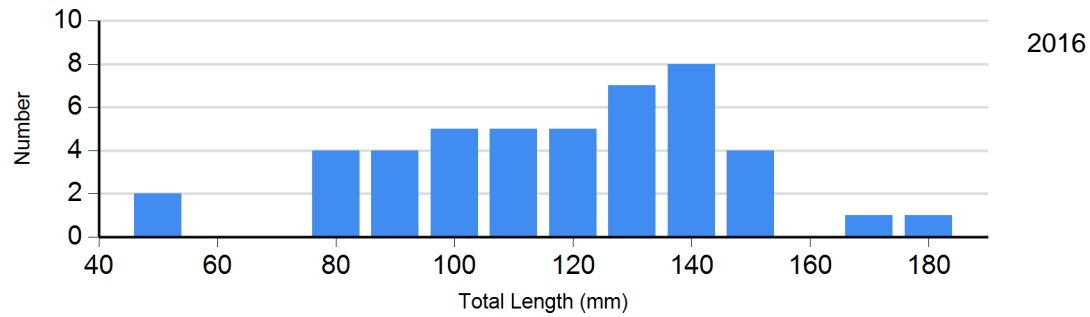
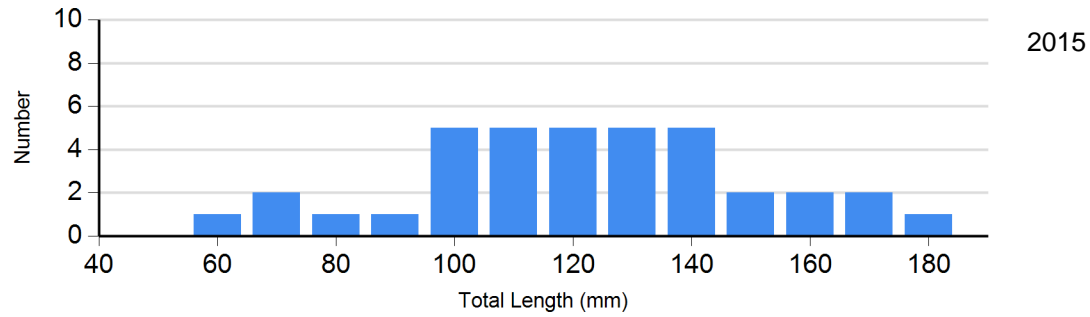
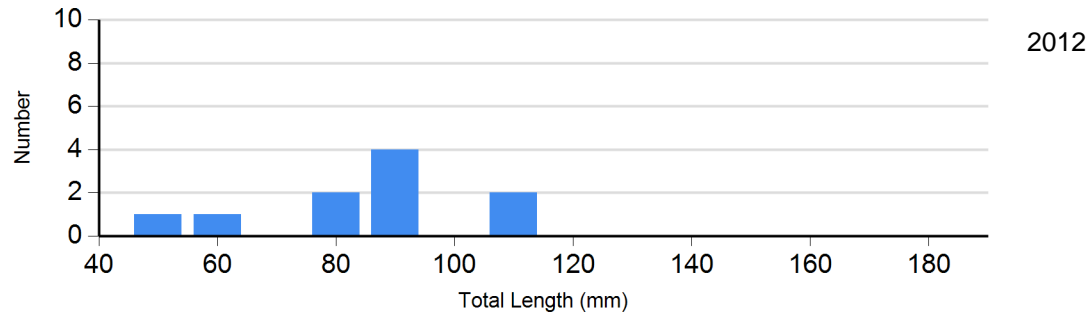
Site: 295
Species: Brown Trout



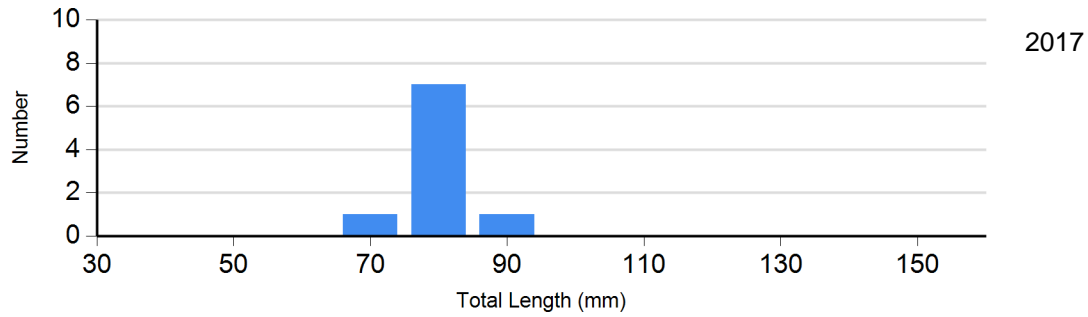
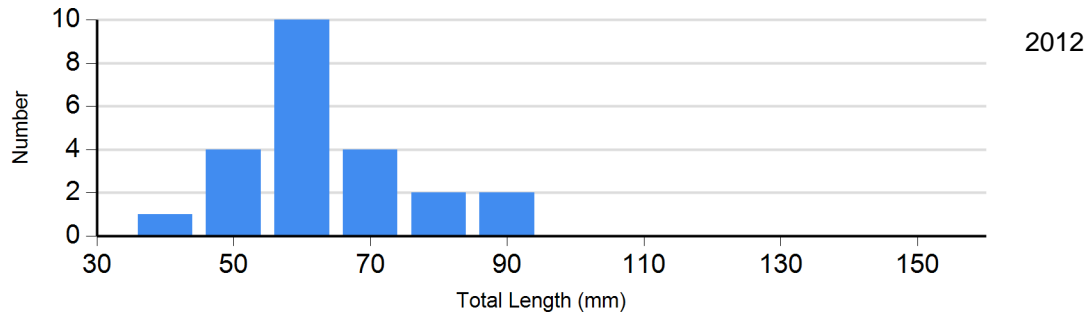
Site: 295
Species: Longnose Dace



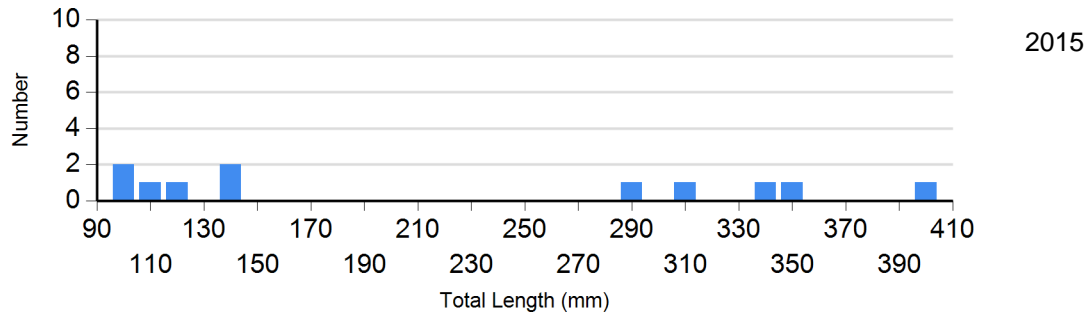
Site: 295
Species: Mountain Sucker

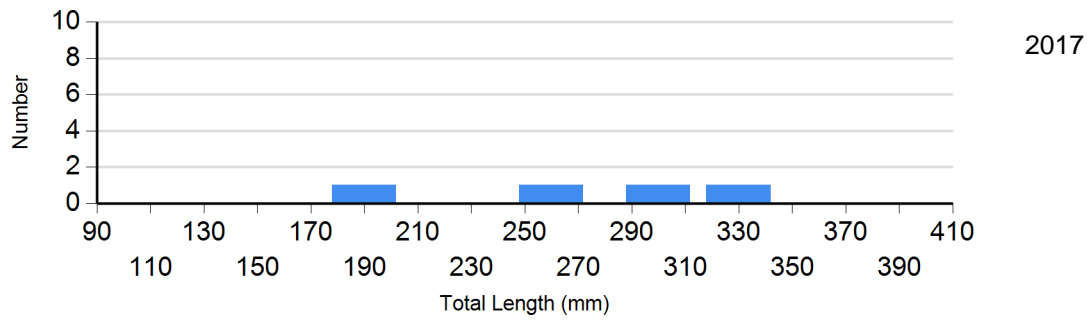


Site: 295
Species: White Sucker

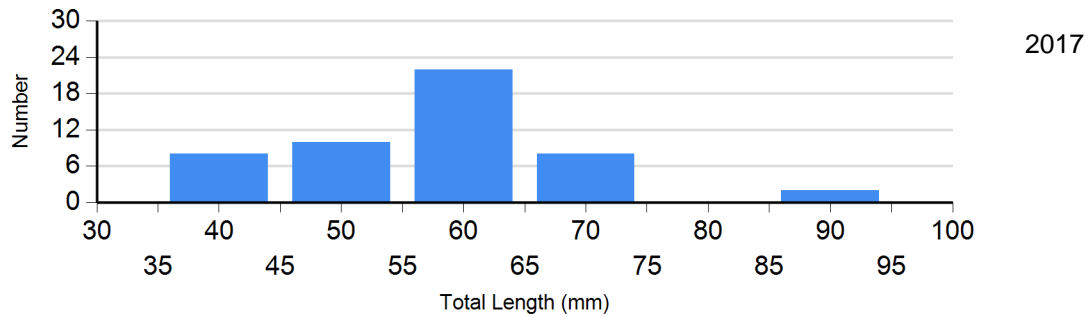
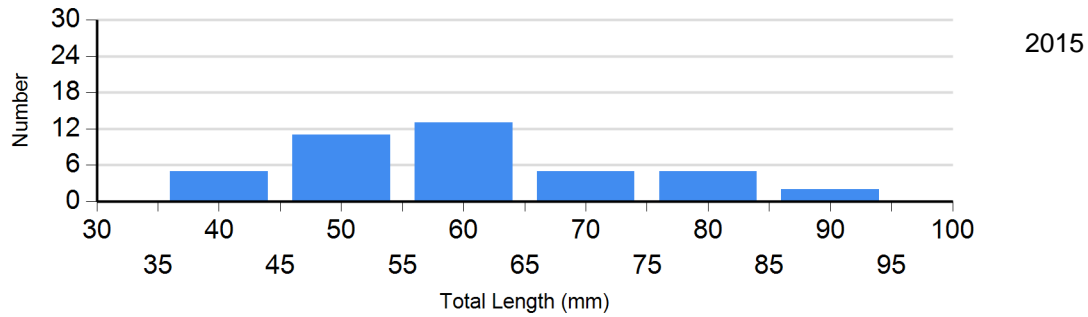


Site: 367
Species: Brown Trout

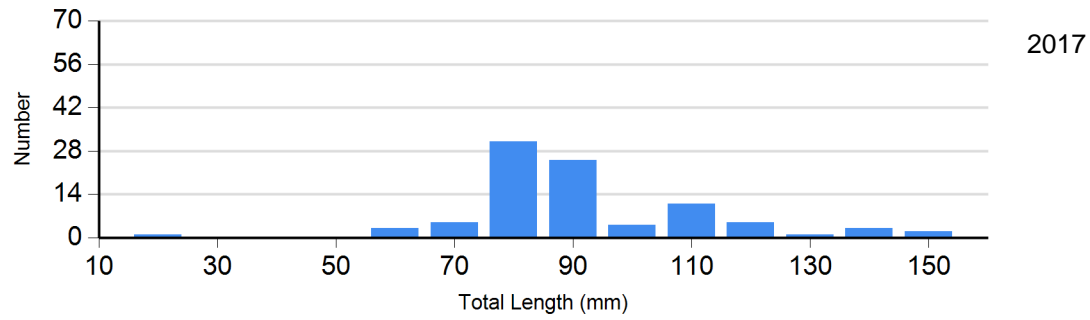
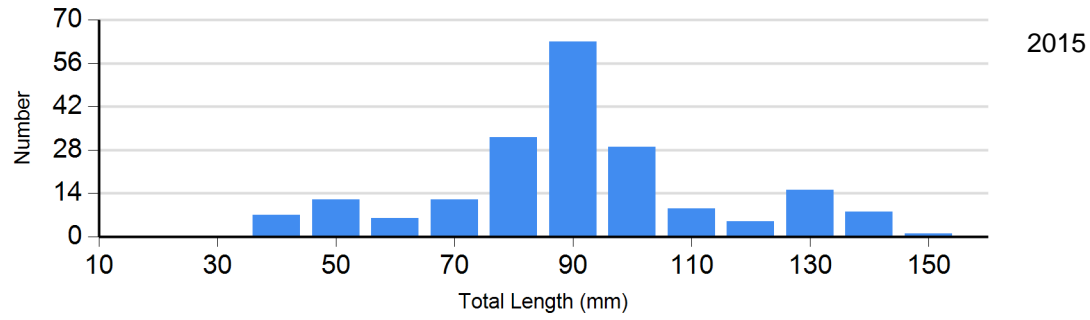
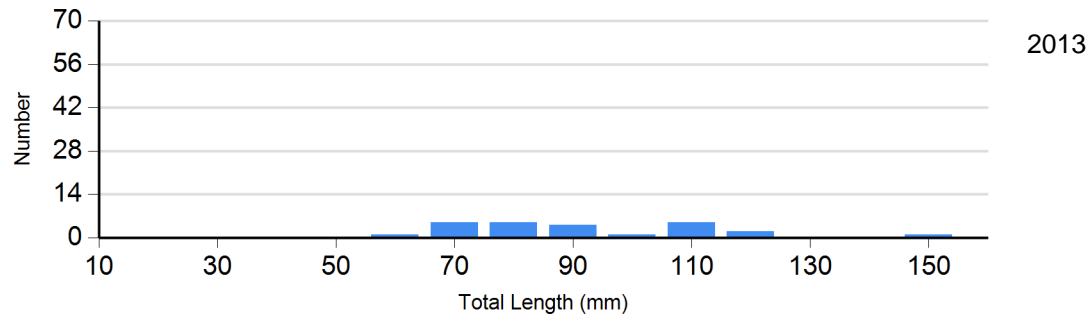




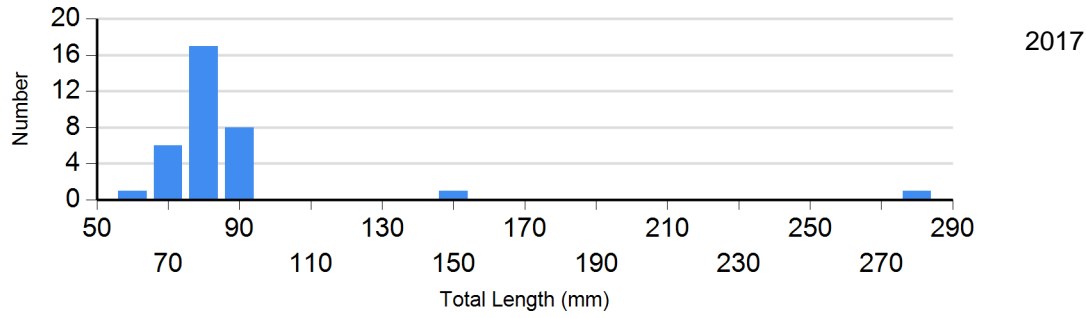
Site: 367
Species: Longnose Dace



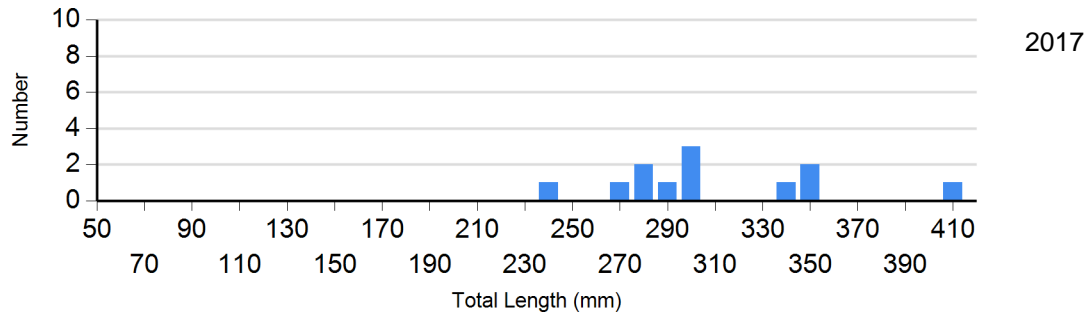
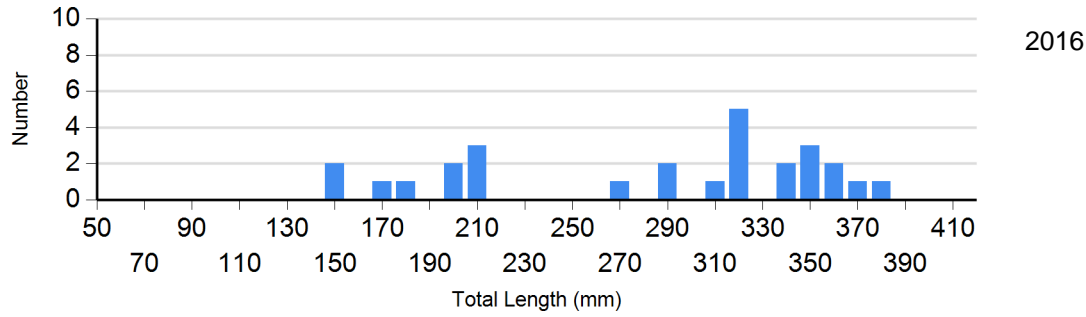
Site: 367
Species: Mountain Sucker



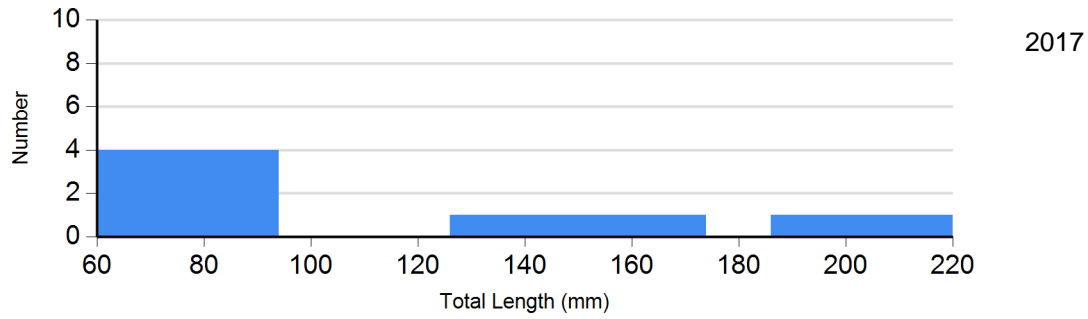
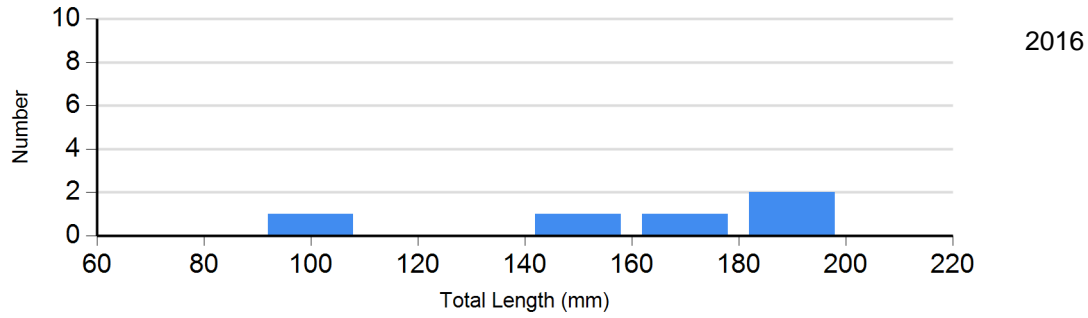
Site: 367
Species: White Sucker



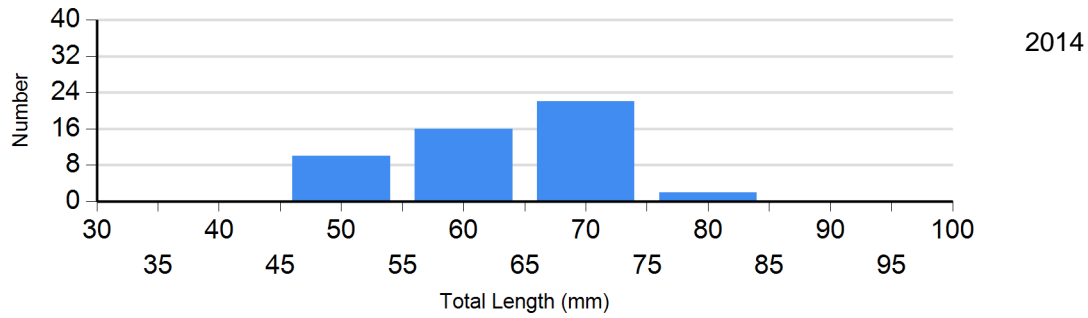
Site: 383
Species: Brown Trout

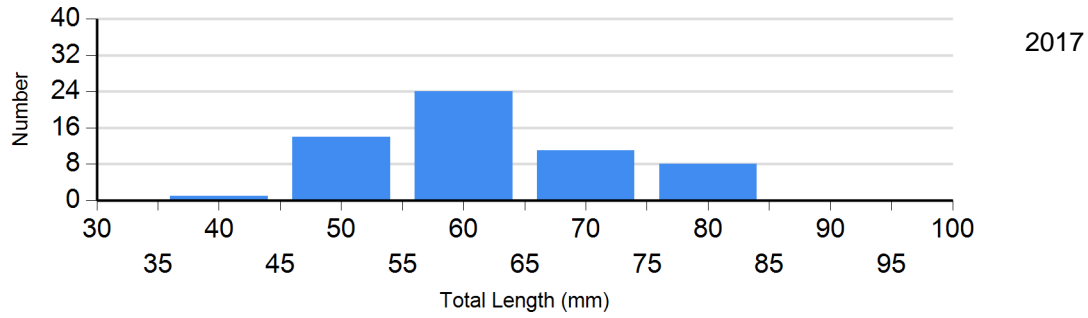
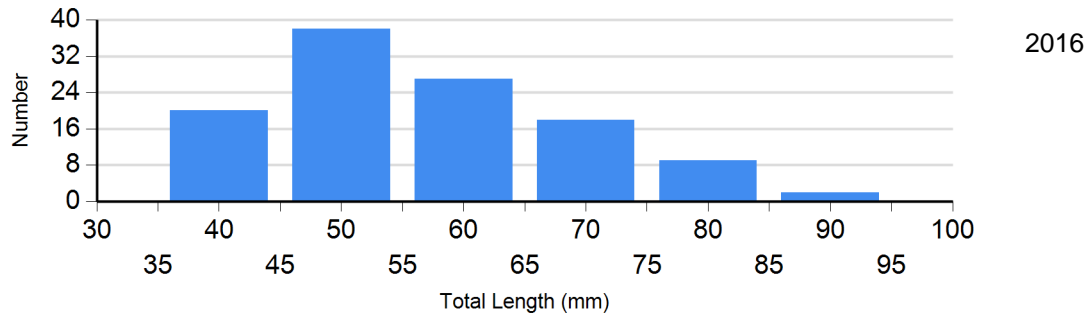


Site: 383
Species: Creek Chub

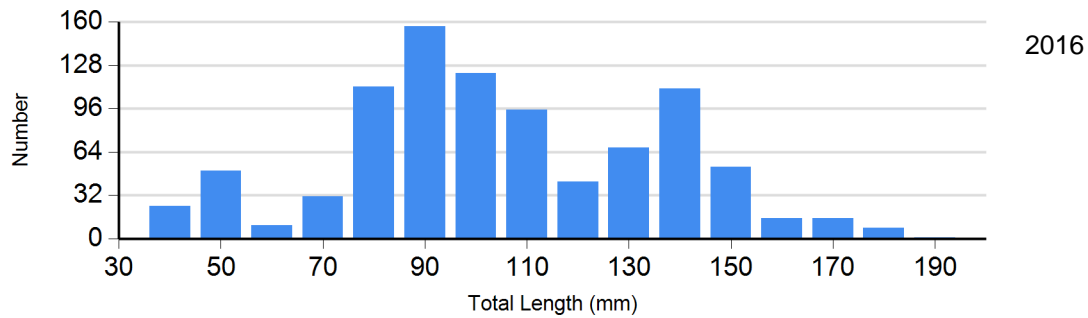
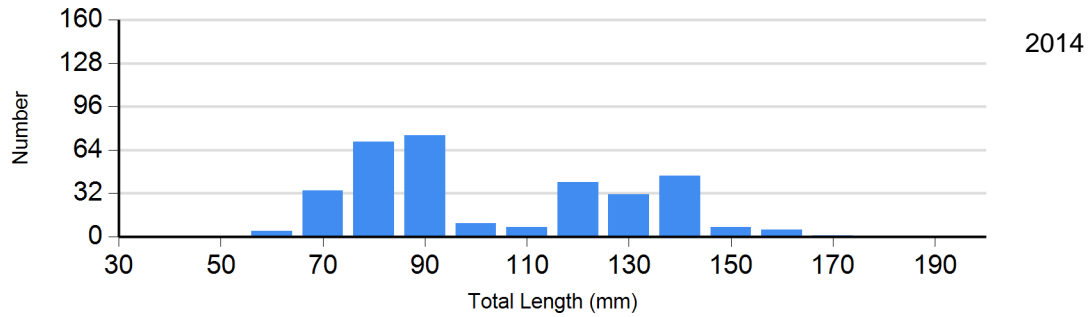


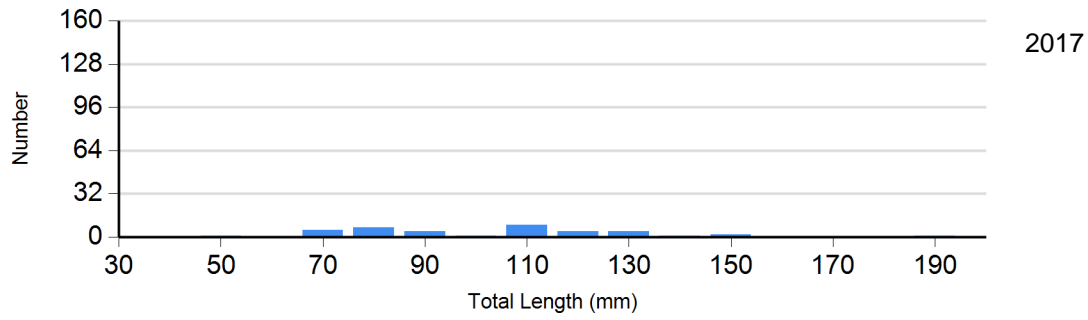
Site: 383
Species: Longnose Dace



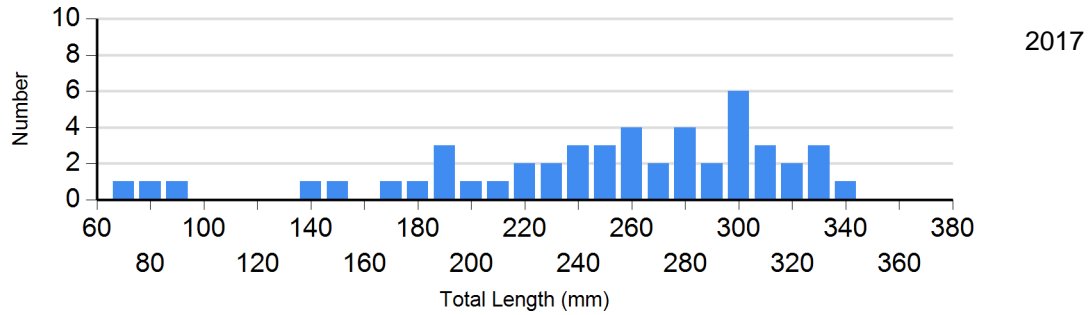
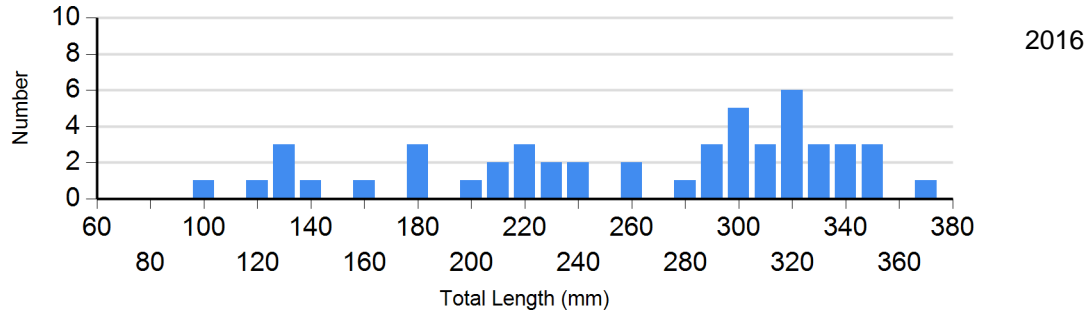


Site: 383
Species: Mountain Sucker

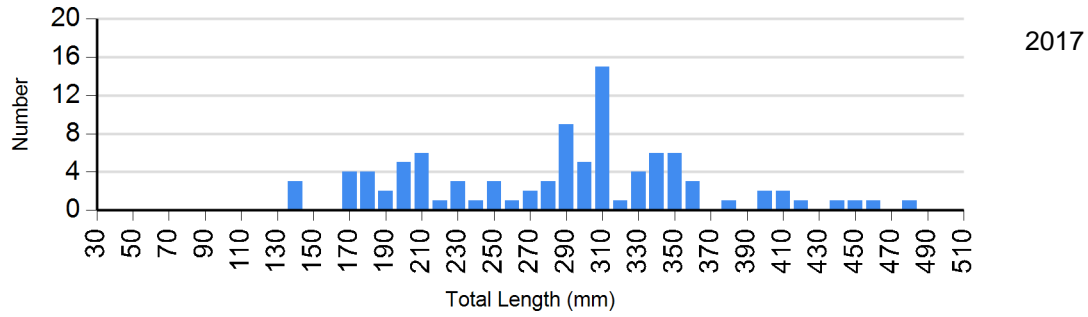
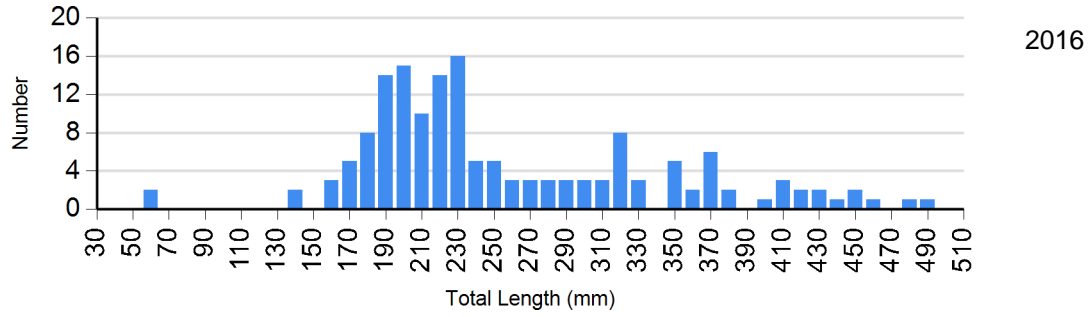
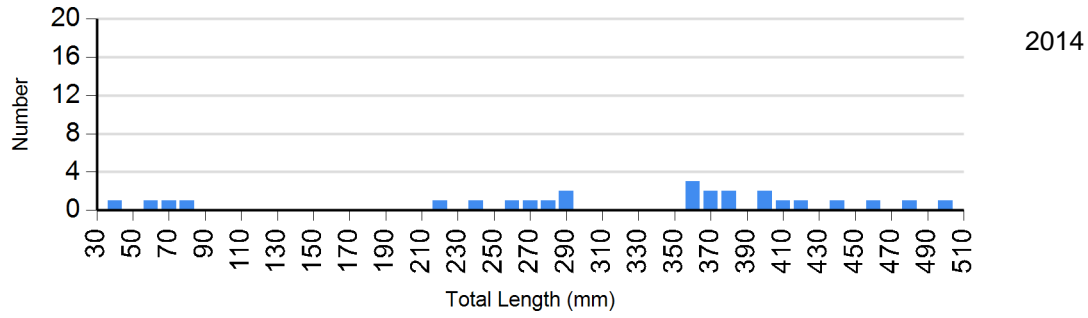




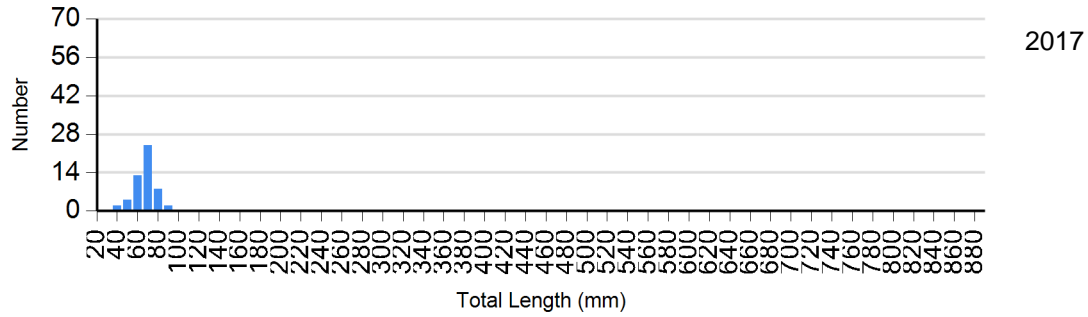
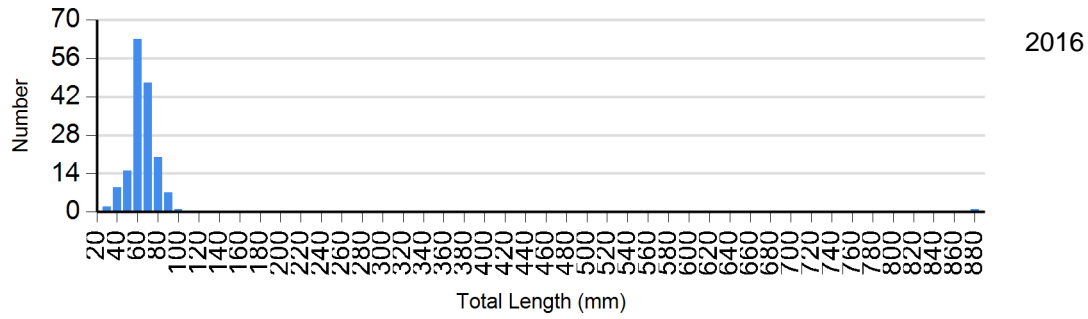
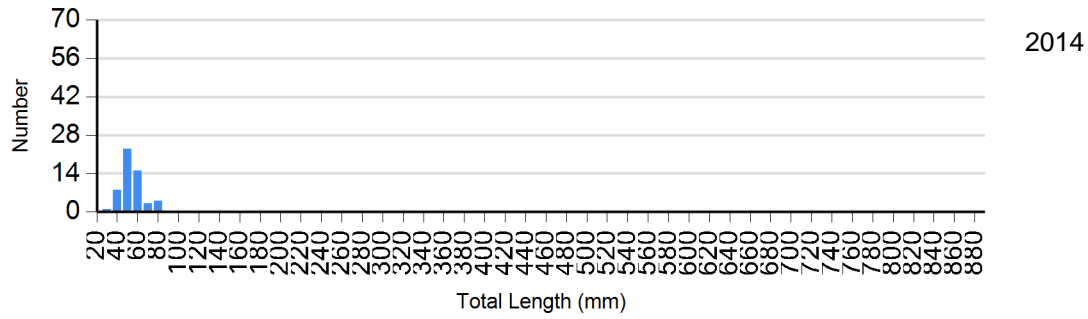
Site: 383
Species: White Sucker



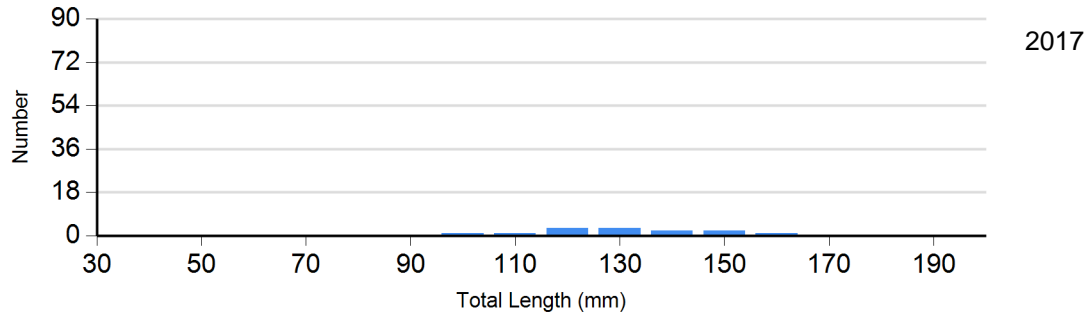
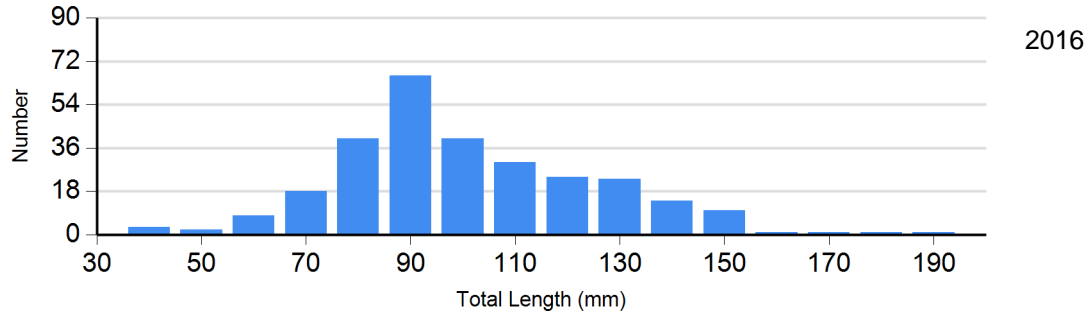
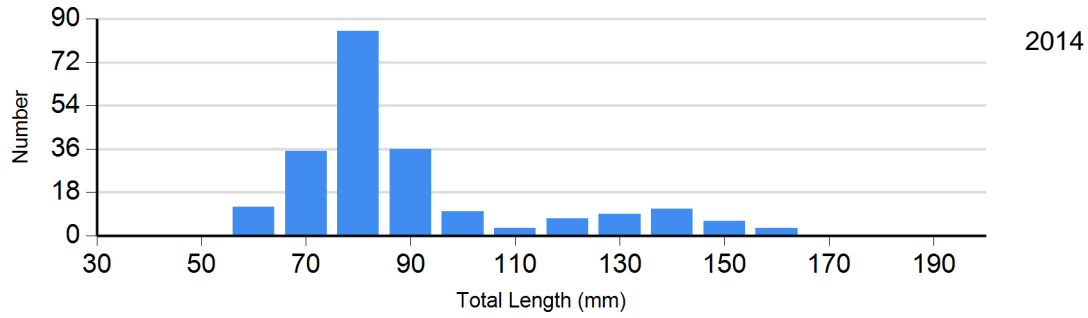
Site: 515
Species: Brown Trout



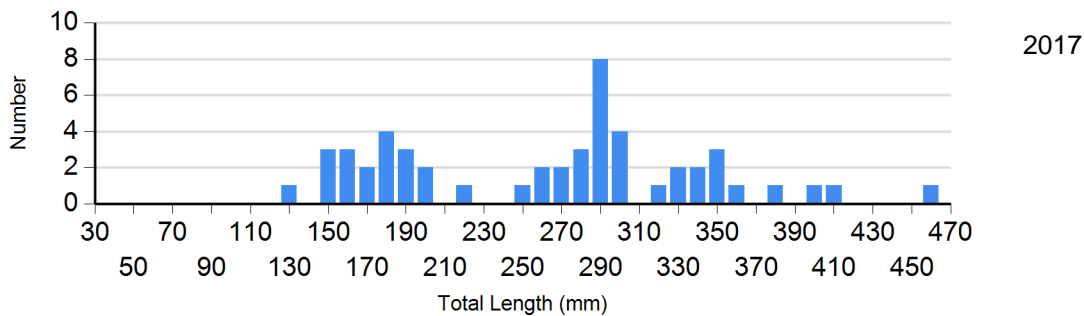
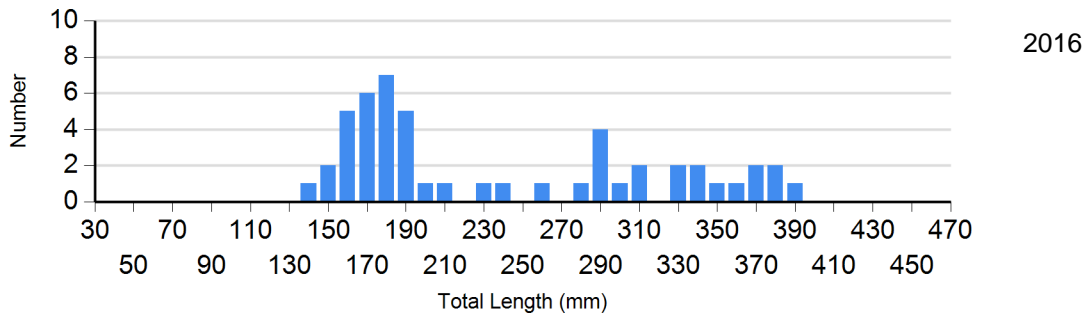
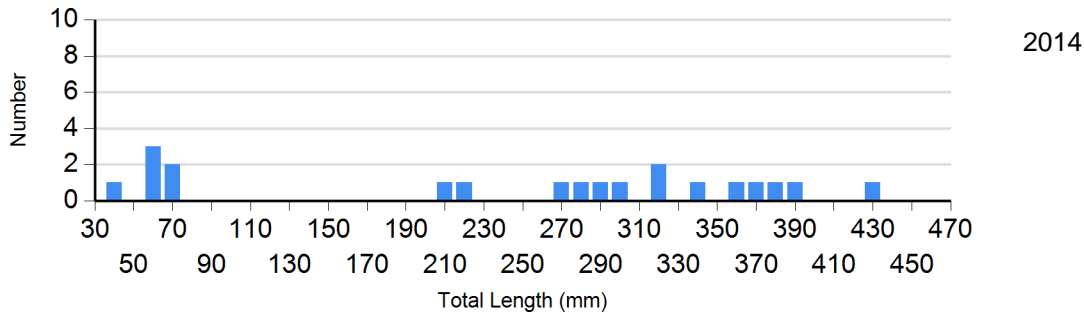
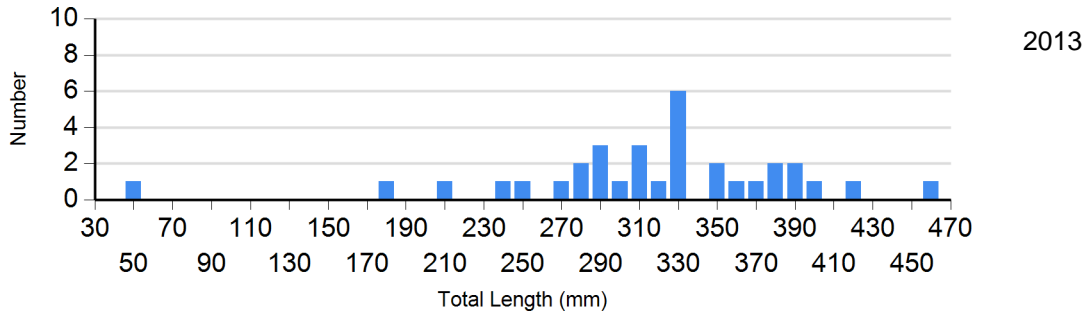
Site: 515
Species: Longnose Dace



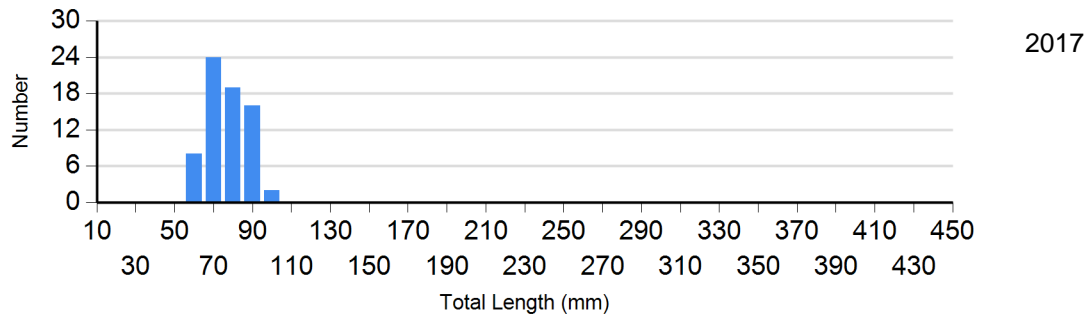
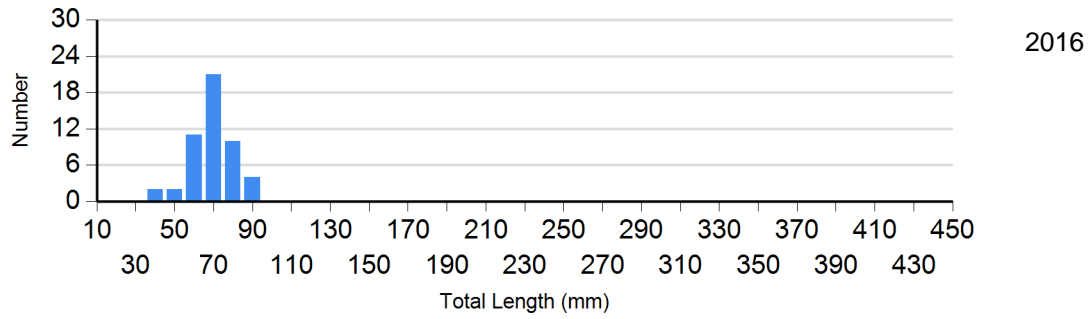
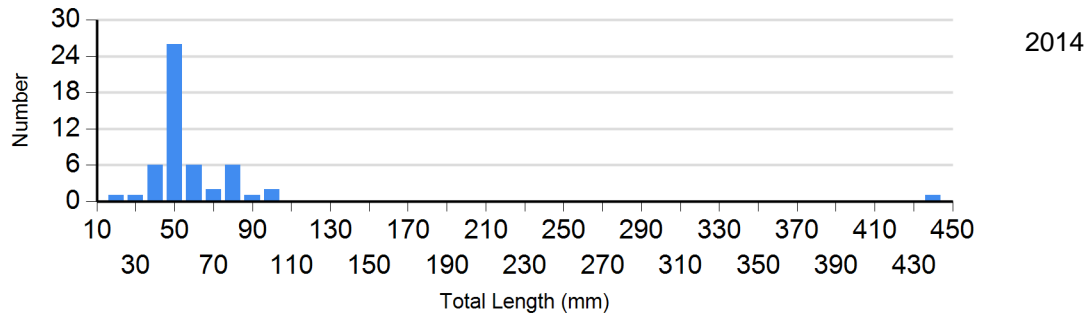
Site: 515
Species: Mountain Sucker



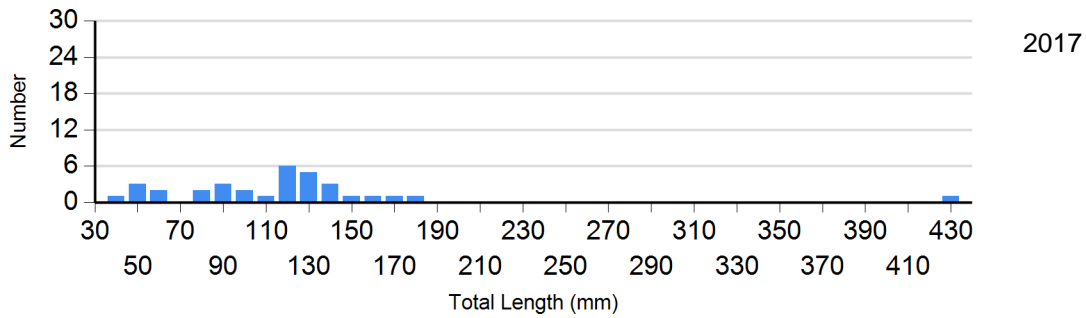
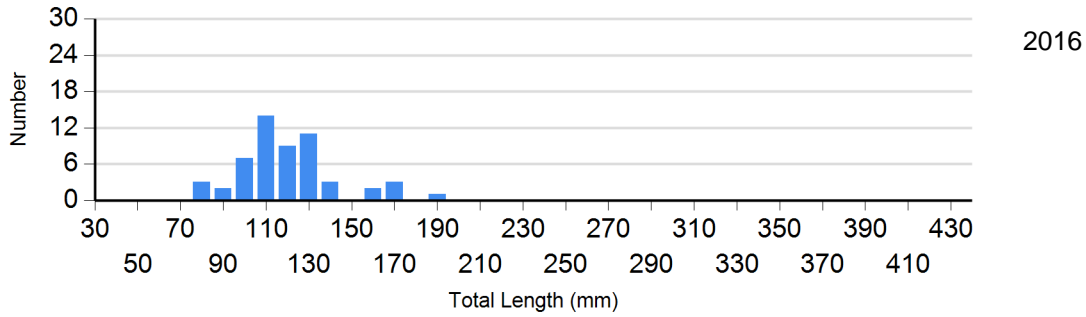
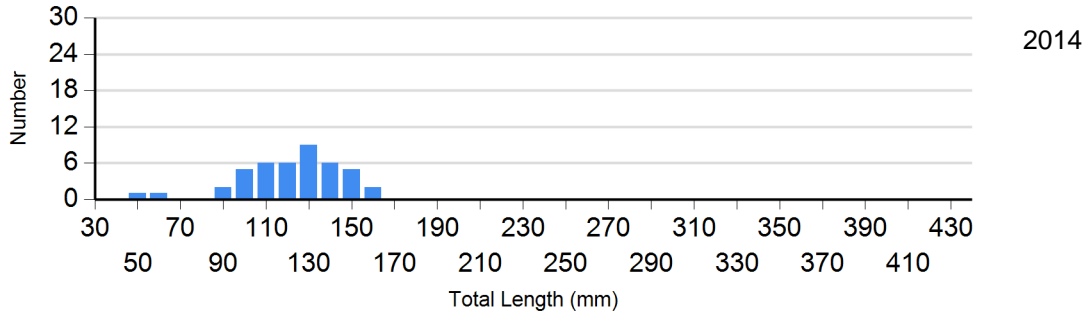
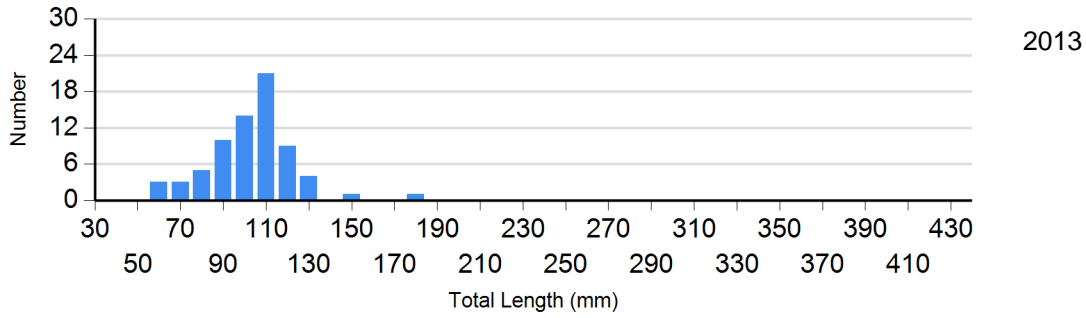
Site: 539
Species: Brown Trout



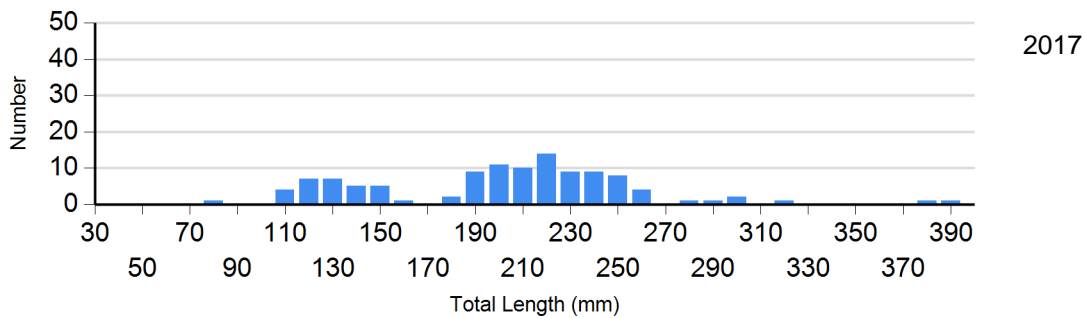
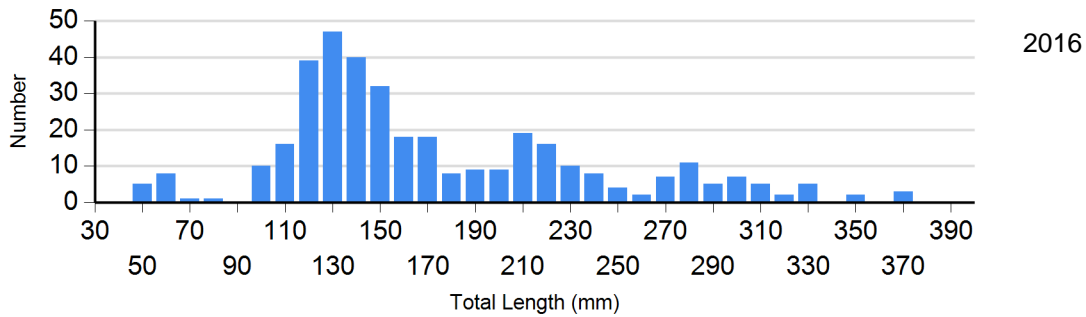
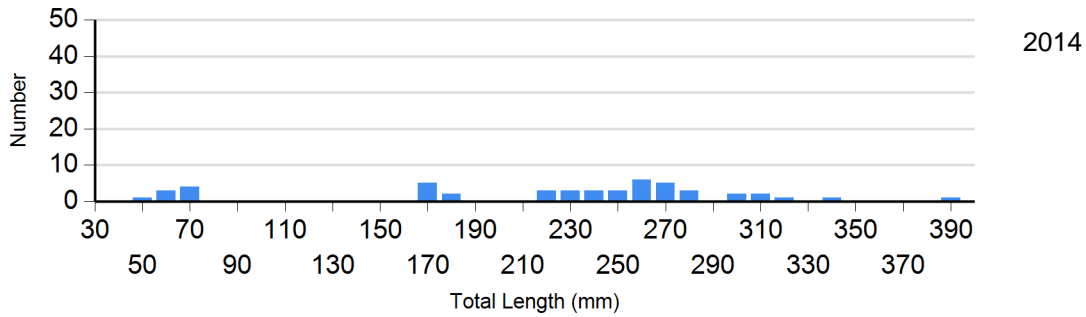
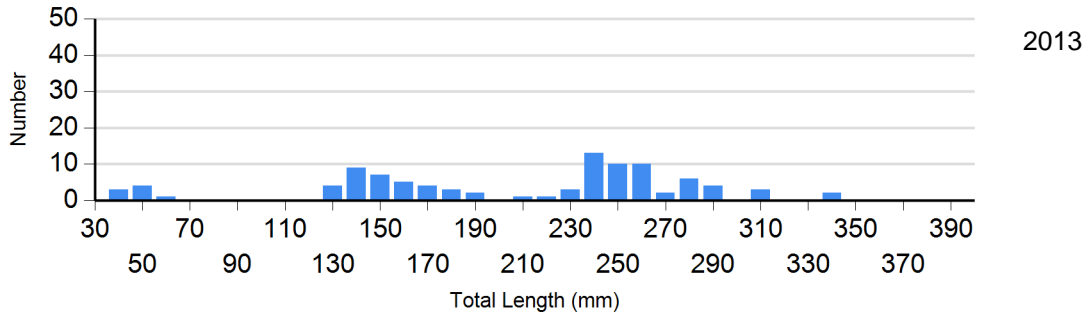
Site: 539
Species: Longnose Dace



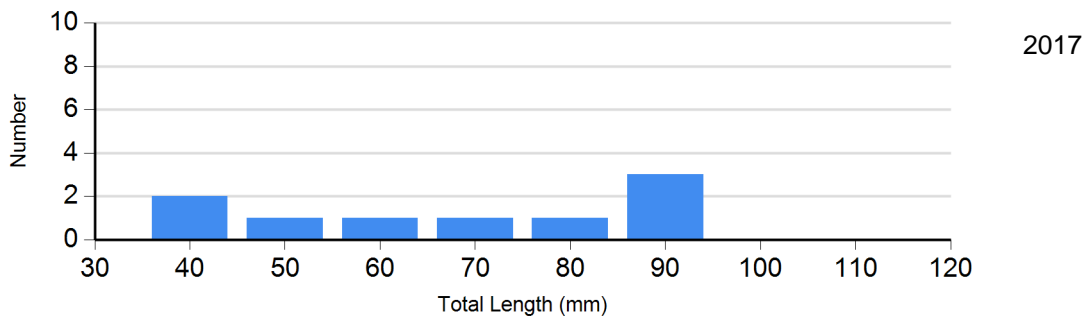
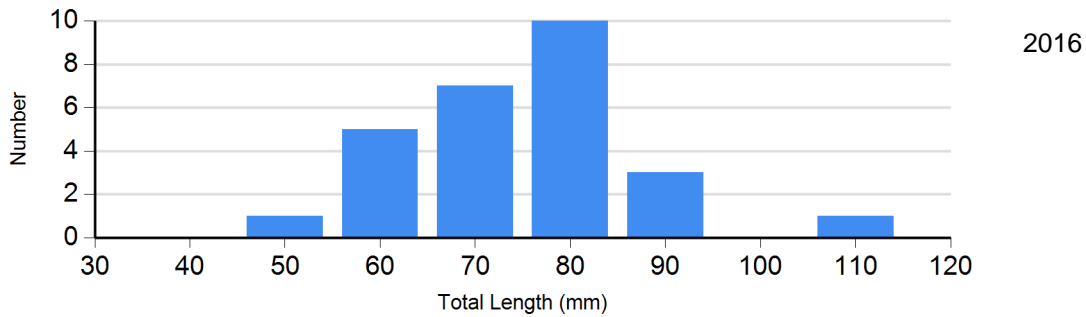
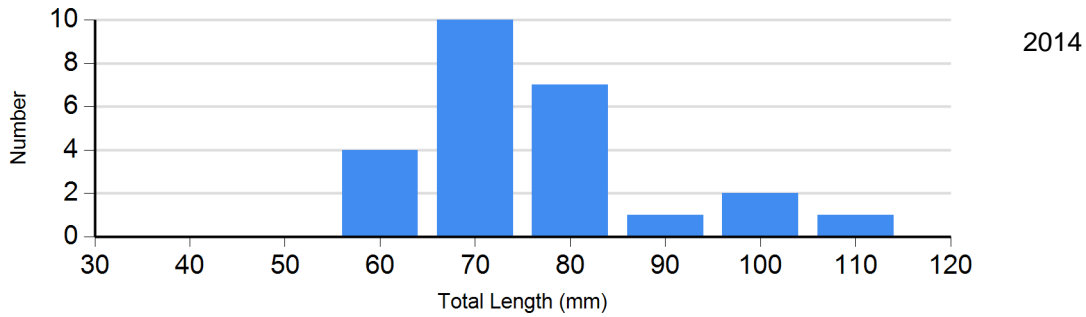
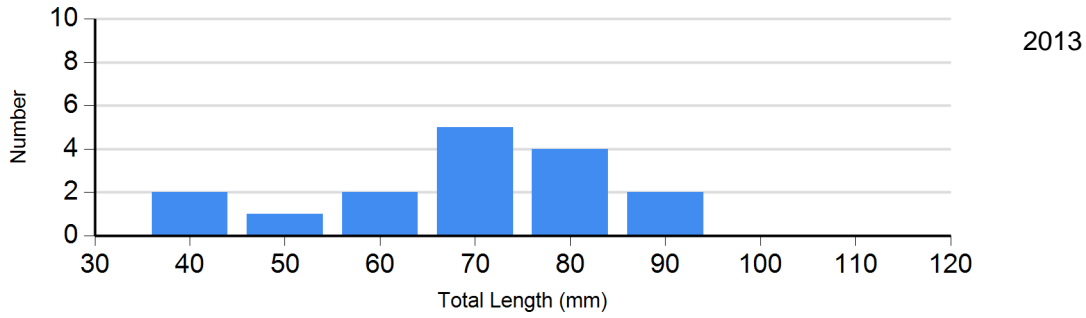
Site: 539
Species: Mountain Sucker



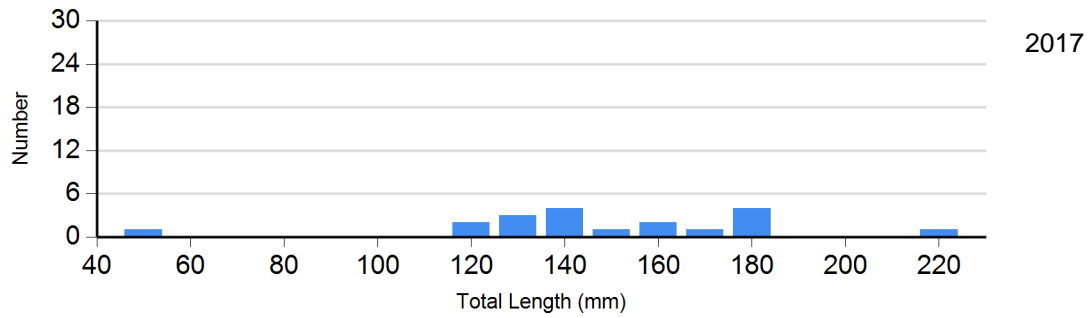
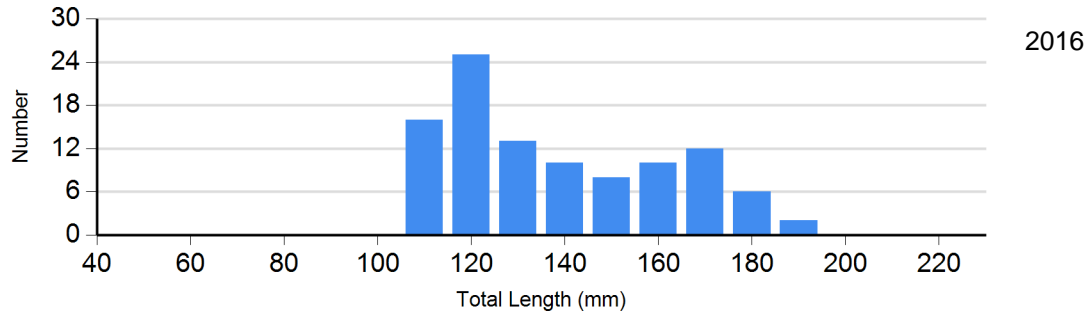
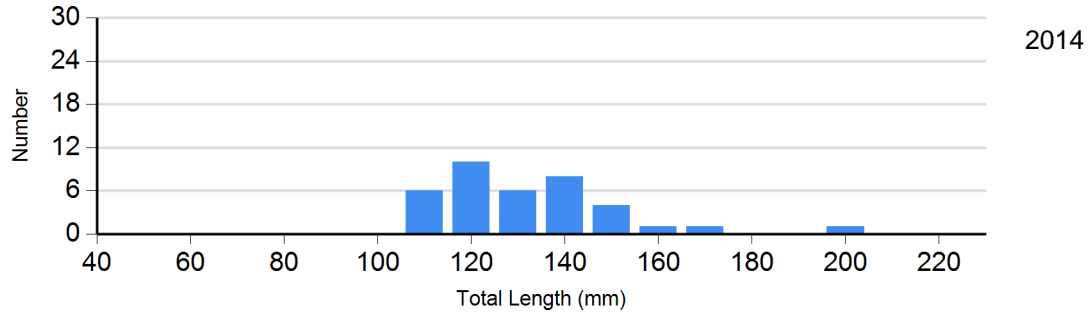
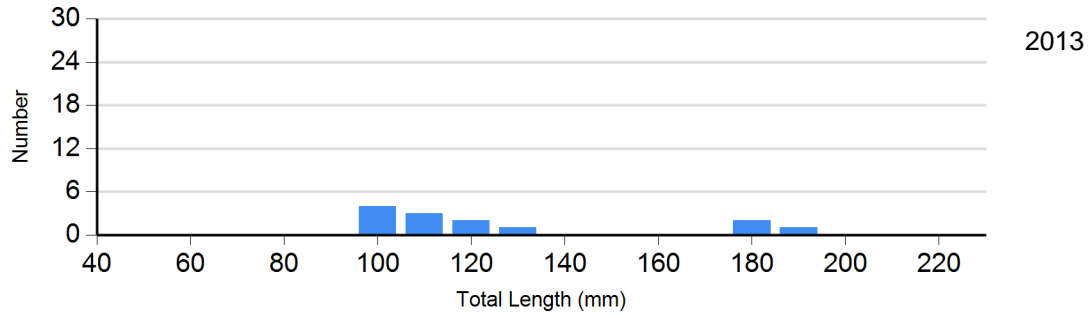
Site: 558
Species: Brown Trout



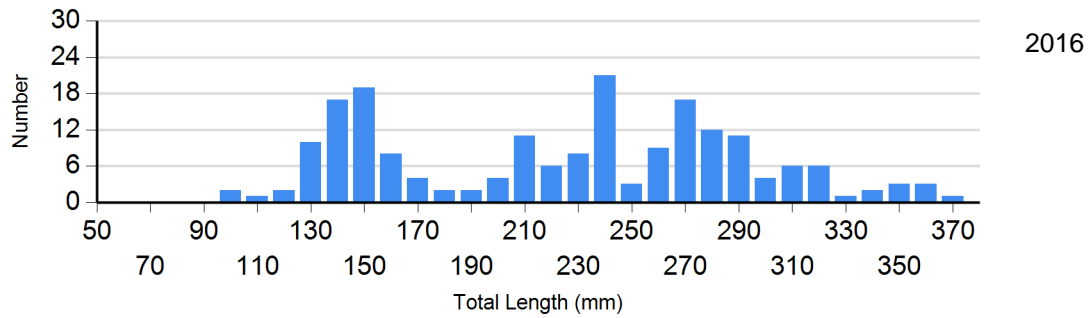
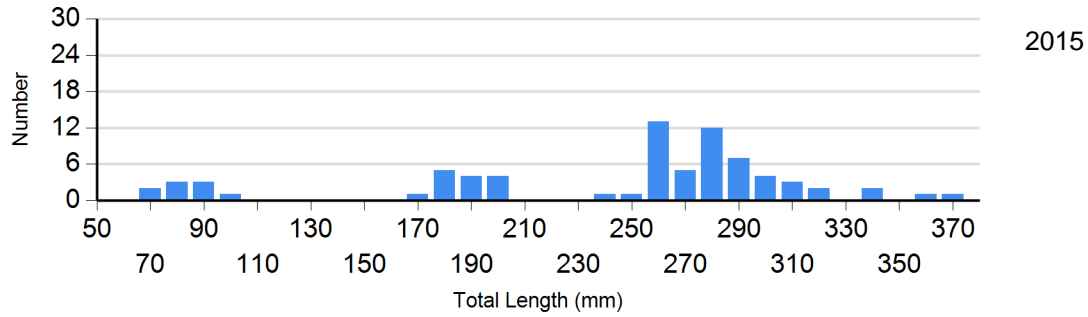
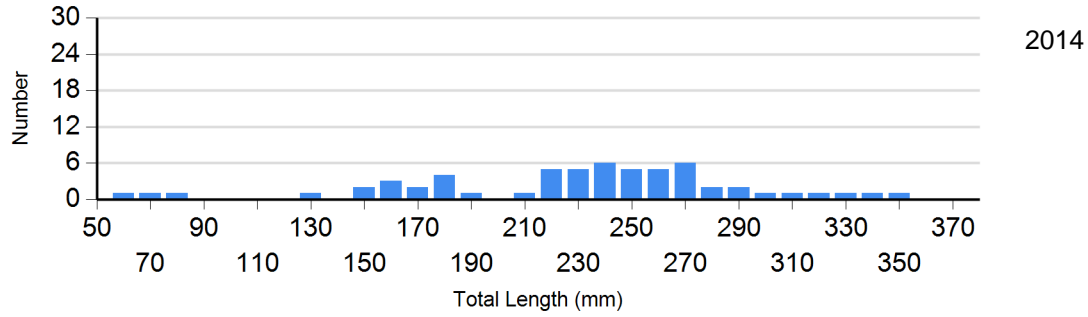
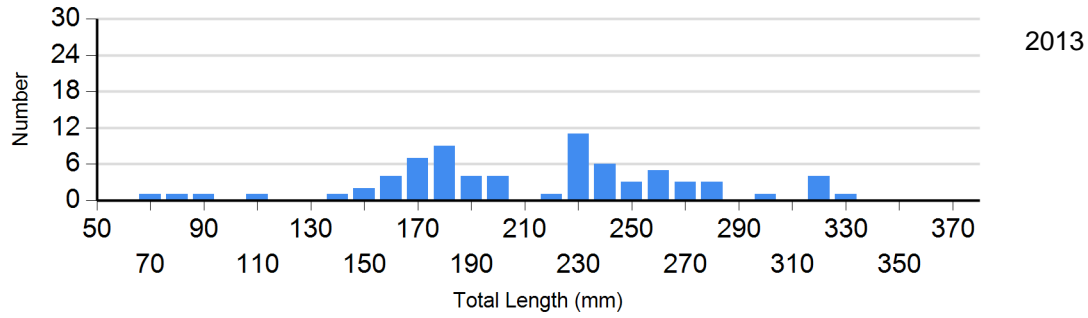
Site: 558
Species: Longnose Dace

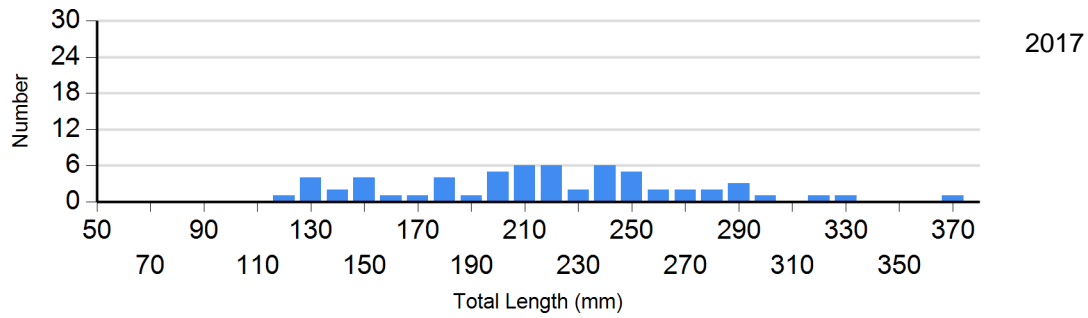


Site: 558
Species: Mountain Sucker

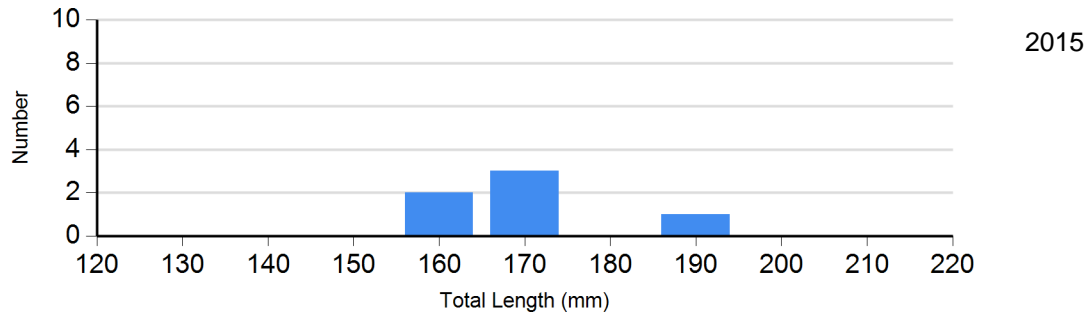


Site: 588
Species: Brown Trout

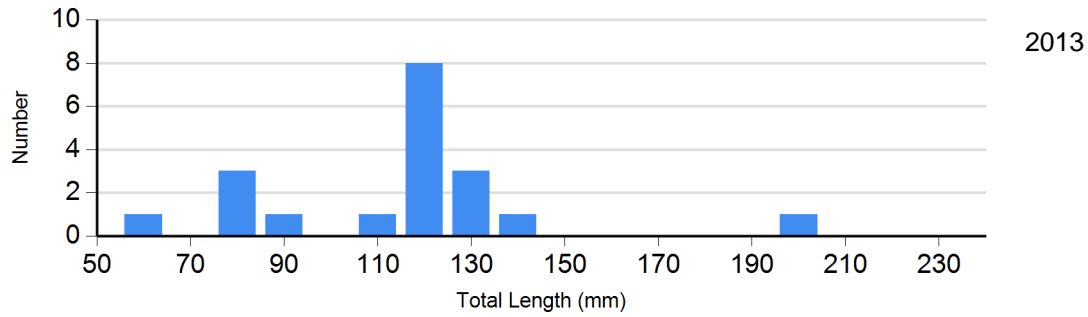


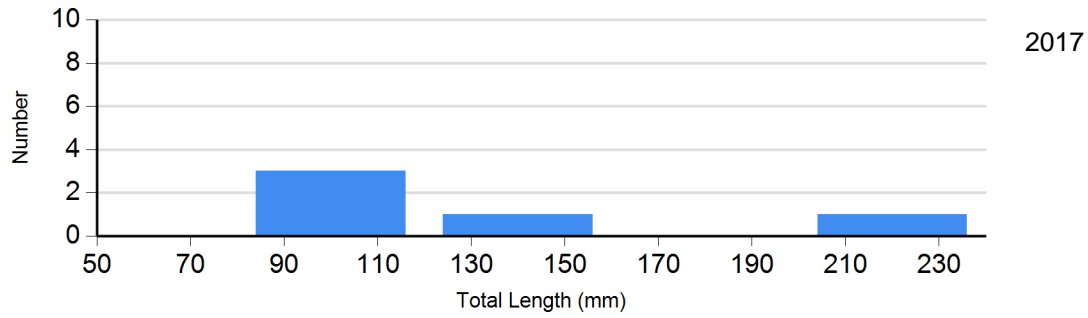
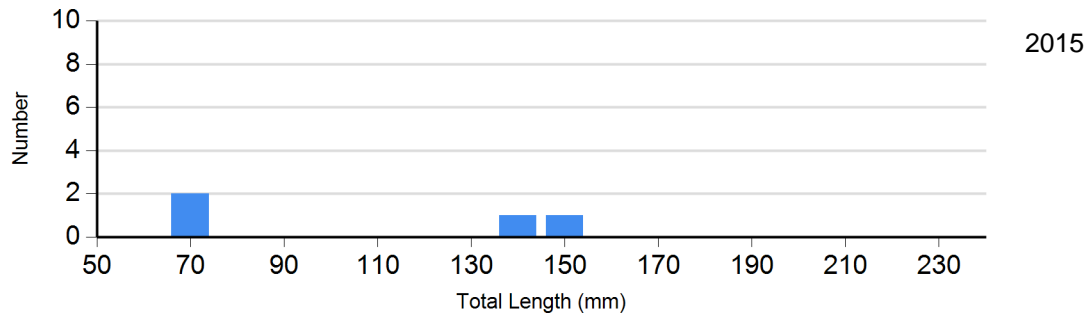


Site: 588
Species: Mountain Sucker

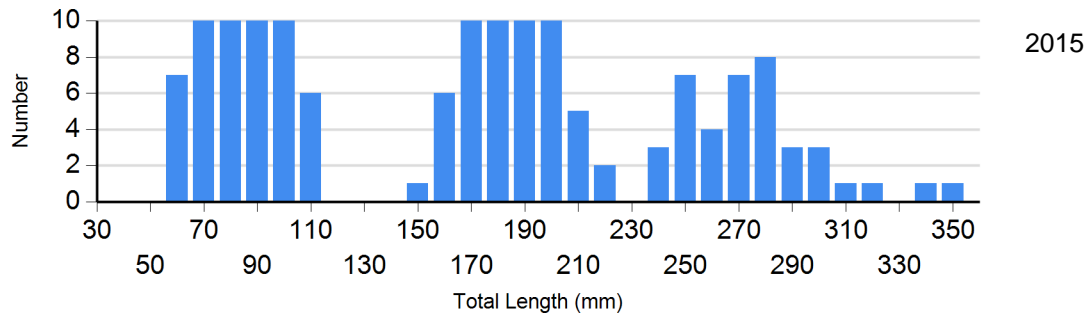
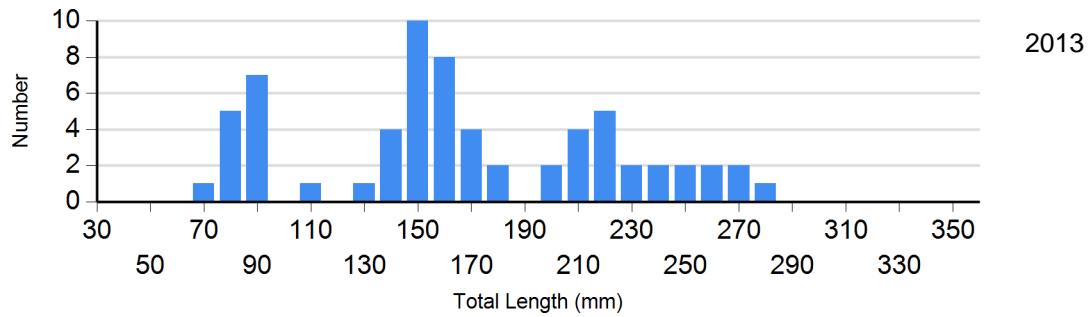


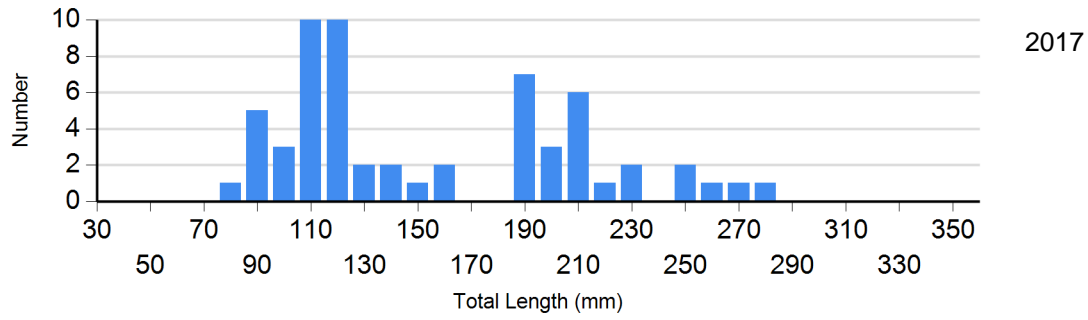
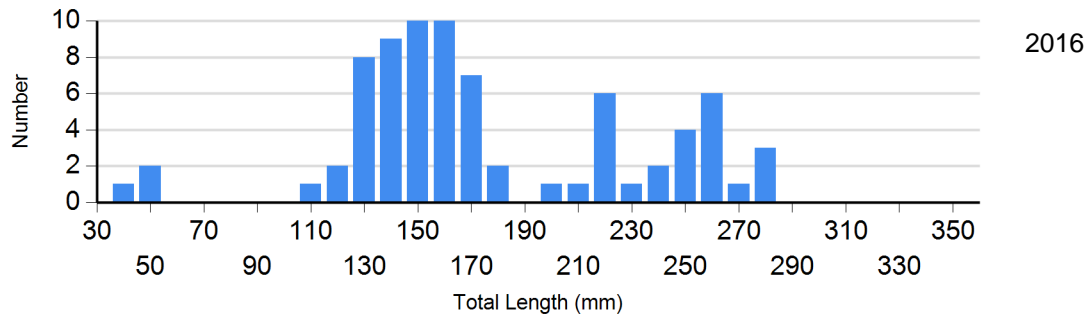
Site: 612
Species: Brook Trout



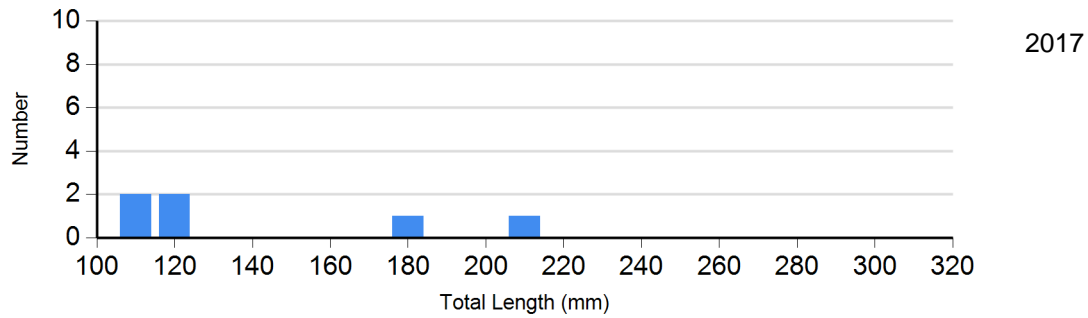
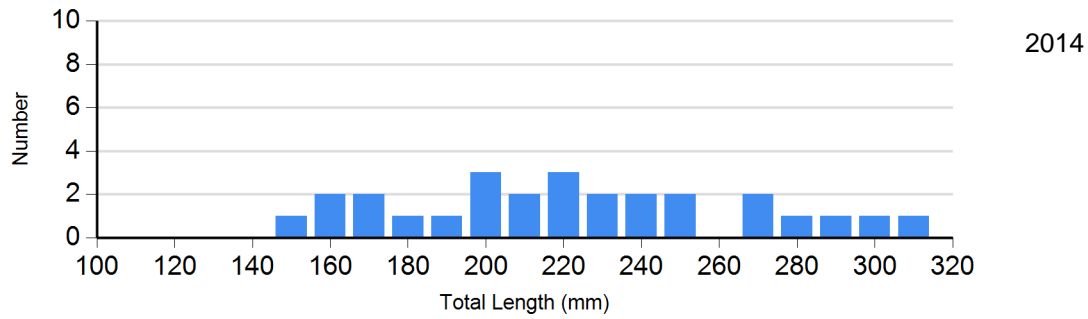


Site: 612
Species: Brown Trout

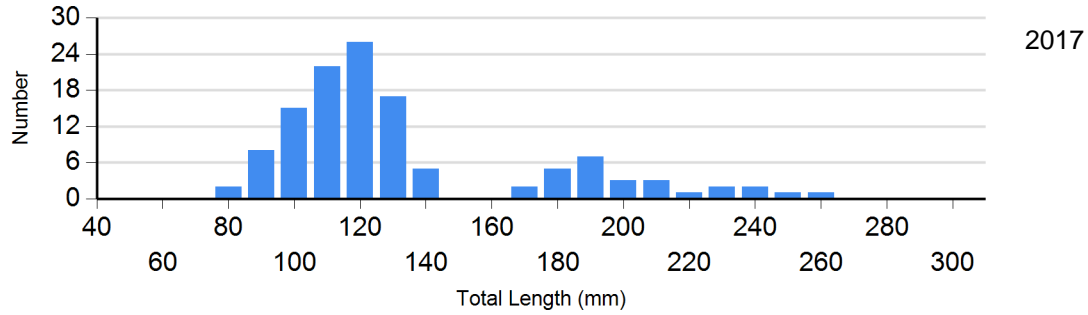
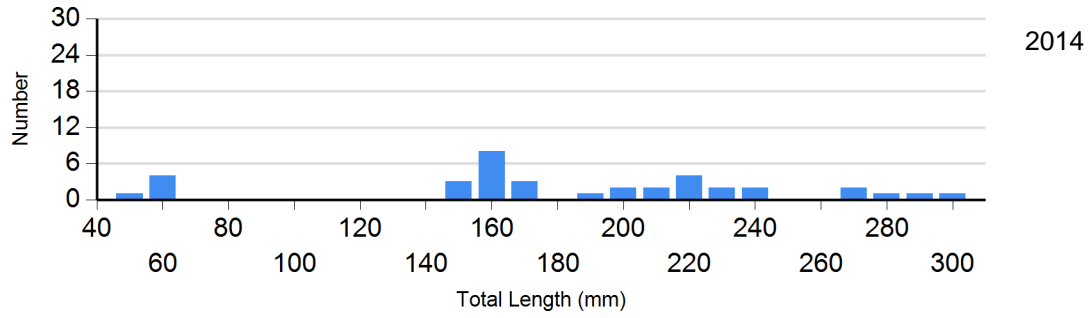




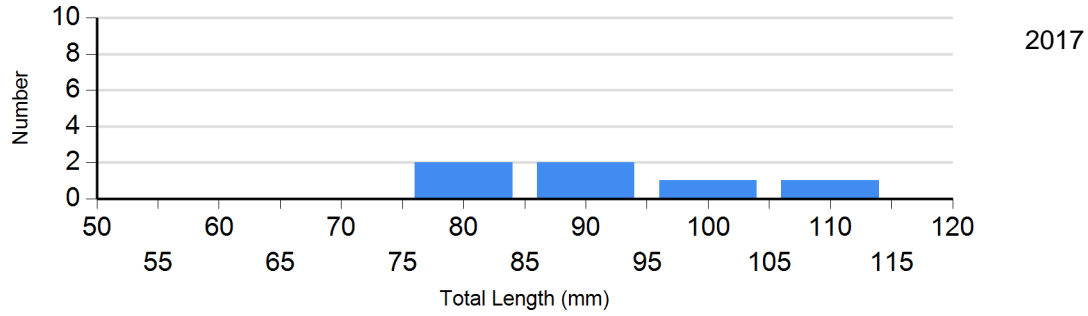
Site: 623
Species: Brook Trout



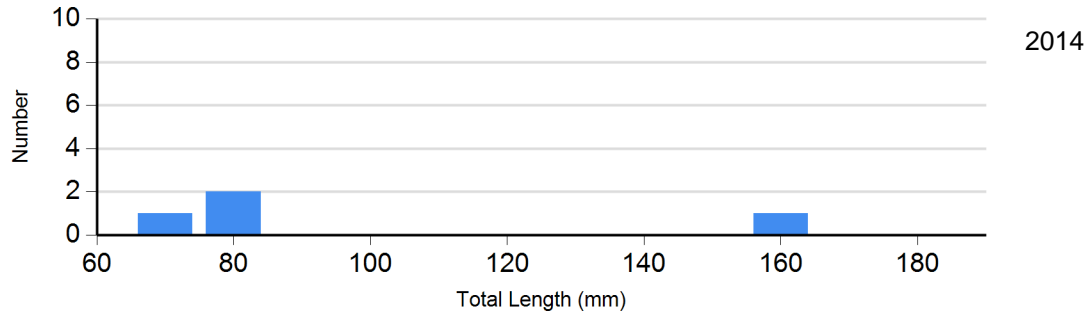
Site: 623
Species: Brown Trout



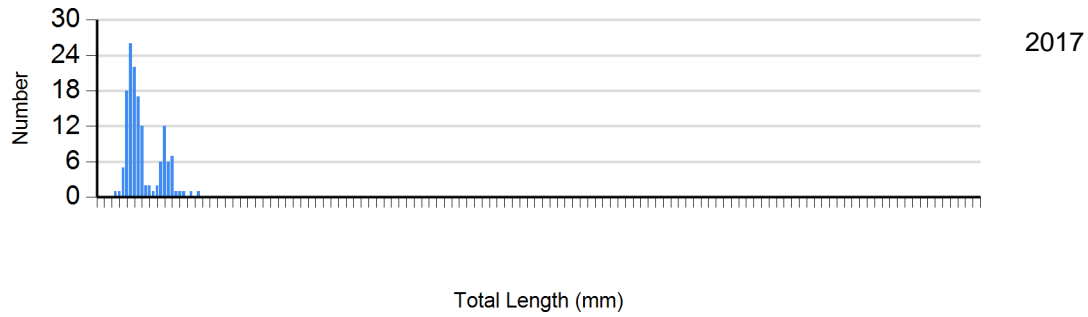
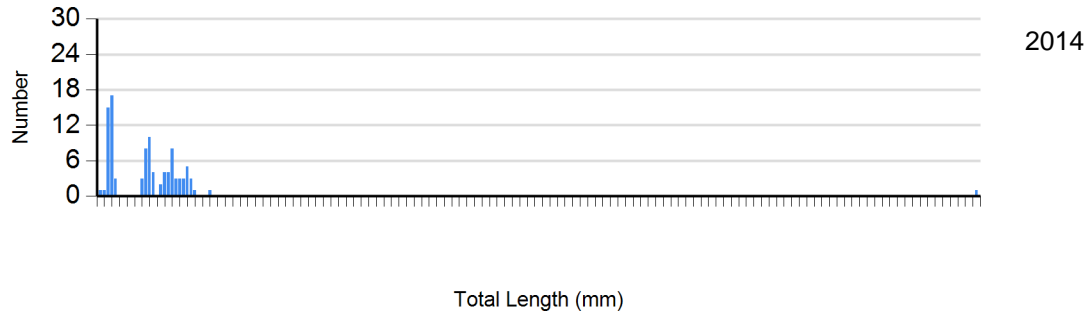
Site: 623
Species: Longnose Dace



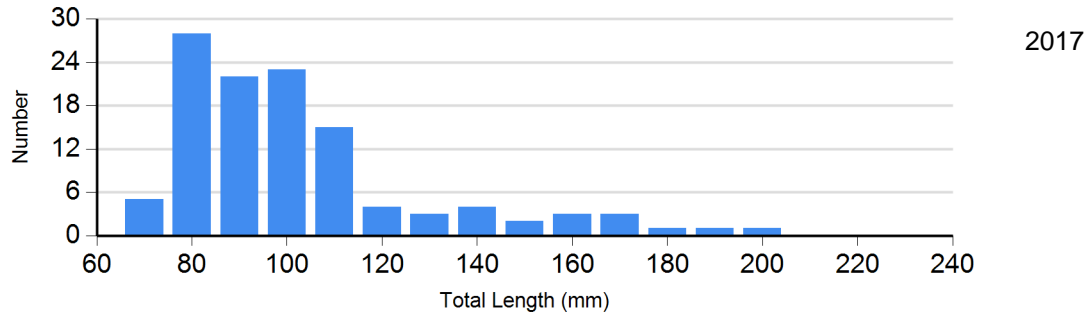
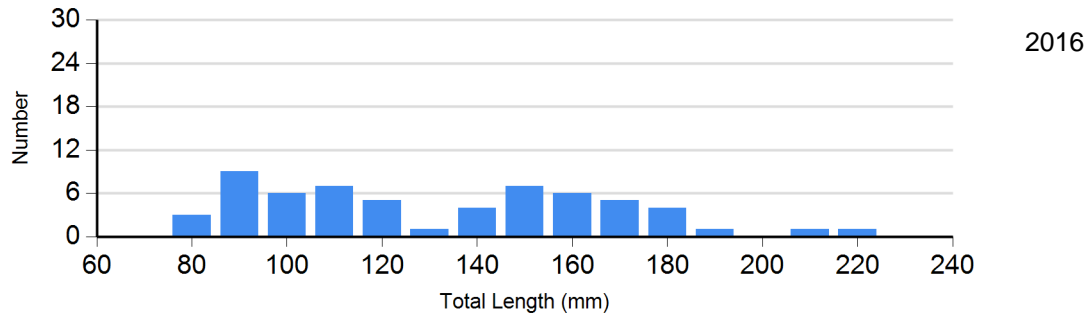
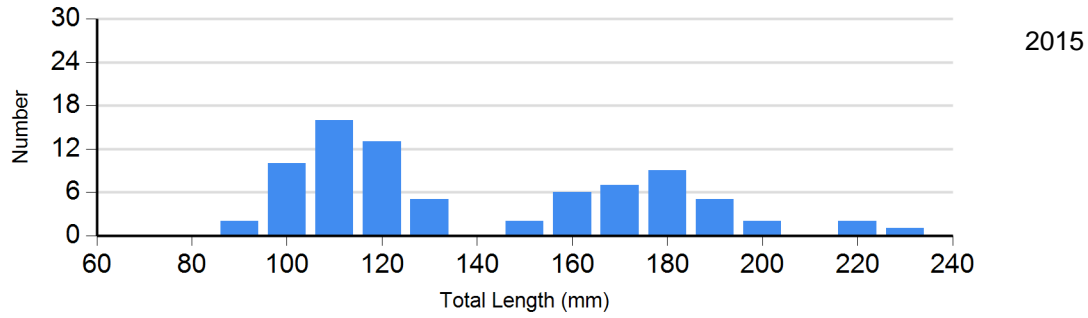
Site: 628
Species: Brook Trout



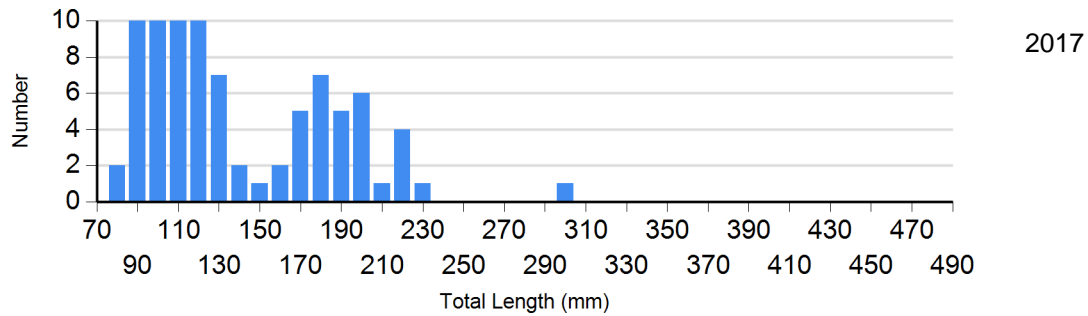
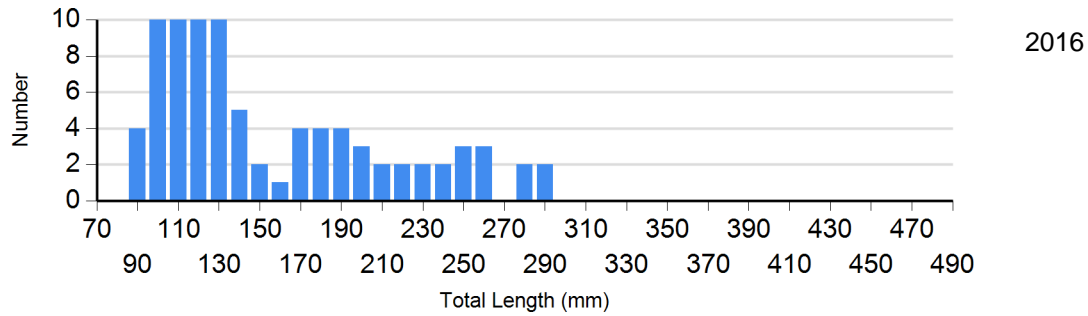
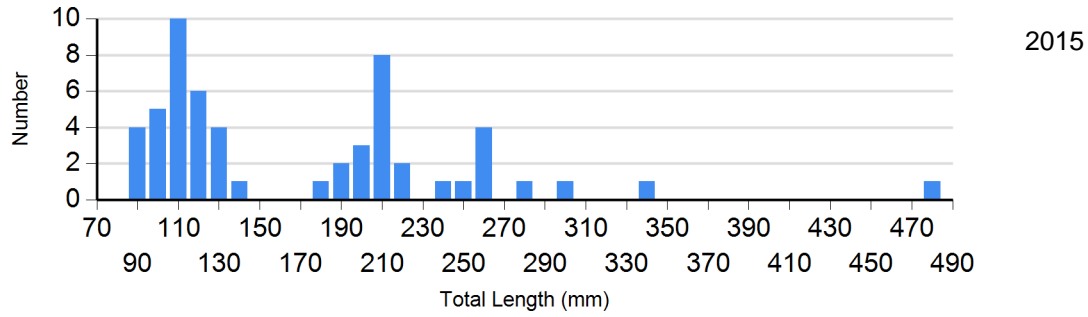
Site: 628
Species: Brown Trout



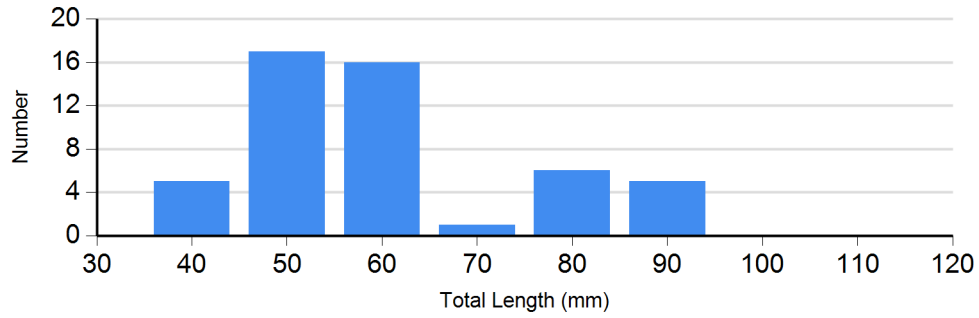
Site: 690
Species: Brook Trout



Site: 690
Species: Brown Trout

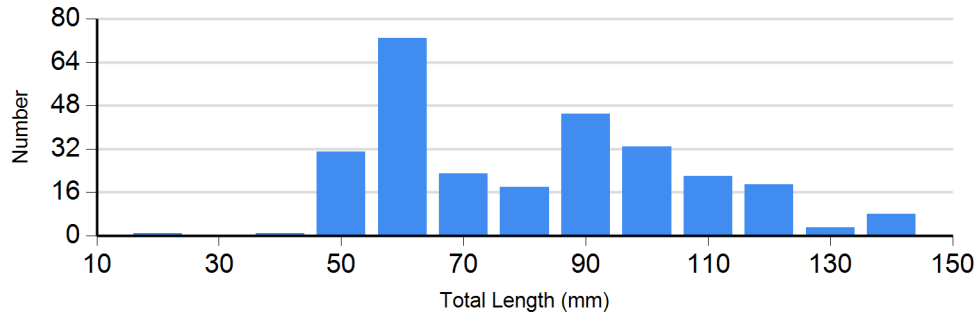


Site: 690
Species: Longnose Dace



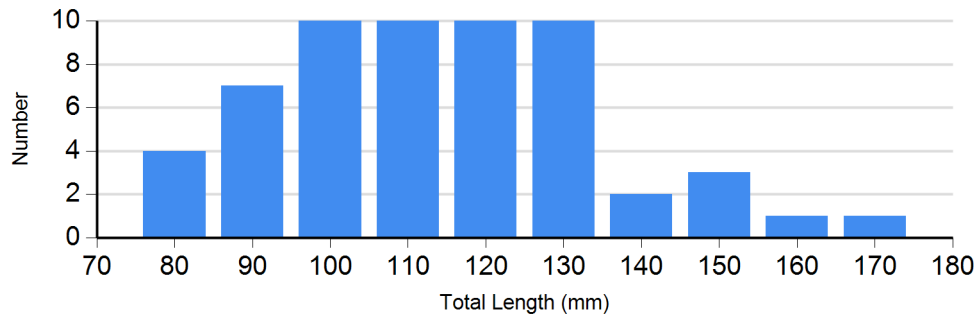
2016

Site: 690
Species: Mountain Sucker



2016

Site: 725
Species: Brook Trout



2017

Site: 725
Species: Longnose Dace

