

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Castle Creek, Pennington County
02-0071-00
2016

Table 1. Population and Biomass Estimates for Castle Creek

Site Number: 181	Date Sampled: 06/29/2016	Conductivity (umhos/cm): 211
Site Midpoint (Latitude, Longitude): 44.06727345, -103.70716435	Site Length (m): 100	pH: 7.3
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 5.3	Water Temperature (C): 5.8
Stream Classification: BR1	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	58	58	60	58	1094	35	580	443	31.20	933	127.9	31.9
Brown Trout	>=200mm	20	20	22	20	377	39	200	153	34.86	322	224.1	103.5
Brown Trout	All	78	79	82	78	1491	81	790	604	72.71	1271	152.6	54.6
White Sucker	All	6	6	7	6	113	32	60	46	28.34	97	296.0	280.3

Site Number: 213	Date Sampled: 06/29/2016	Conductivity (umhos/cm): 226
Site Midpoint (Latitude, Longitude): 44.07800737, -103.71756559	Site Length (m): 100	pH: 7.5
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 4.9	Water Temperature (C):
Stream Classification: BR2	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	64	64	65	64	1306	38	640	529	34.16	1030	131.0	29.3
Brown Trout	>=200mm	11	11	11	11	224	24	110	91	21.41	177	220.4	106.8
Brown Trout	All	75	75	76	75	1531	63	750	620	56.68	1207	144.1	41.5
White Sucker	All	1	1	1	1	20	9	10	8	8.44	16	354.0	463.0

Site Number: 220
Site Midpoint (Latitude, Longitude): 44.08082240, -103.71731458
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK0, BR2

Date Sampled: 06/29/2016
Site Length (m): 100
Mean Width (m): 4.2
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C): 16.6
Voltage: 250

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	1	1	2	1	24	1	10	10	0.70	16	156.0	33.0
Brook Trout	All	1	1	2	1	24	1	10	10	0.70	16	156.0	33.0
Brown Trout	<200mm	39	40	43	39	944	40	400	382	35.86	644	139.7	42.5
Brown Trout	>=200mm	14	14	16	14	330	42	140	134	37.56	225	237.1	127.3
Brown Trout	All	53	54	57	53	1275	89	540	516	79.10	869	165.5	69.5
Mountain Sucker	All	1	1	1	1	24	1	10	10	1.20	16	164.0	57.0

Site Number: 296
Site Midpoint (Latitude, Longitude): 44.07393507, -103.74845067
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK2, RB1

Date Sampled: 07/21/2016
Site Length (m): 100
Mean Width (m): 4.5
Number of Pass: 3
Conductivity (umhos/cm): 241
pH: 7.8
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	94	128	167	94	2862	81	1280	1159	72.21	2060	139.7	28.3
Brook Trout	>=200mm	12	14	21	12	313	33	140	127	29.90	225	221.5	107.0
Brook Trout	All	106	146	189	106	3264	122	1460	1322	108.85	2349	148.9	37.3
Rainbow Trout	<200mm	19	23	34	19	514	24	230	208	21.07	370	161.8	45.9
Rainbow Trout	>=200mm	5	6	13	5	134	24	60	54	21.30	97	269.2	177.8
Rainbow Trout	All	24	33	54	24	738	54	330	299	48.34	531	184.2	73.4

Rock Bass All 103 111 121 103 2482 54 1110 1005 48.60 1786 111.2 21.9

Site Number: 373

Date Sampled: 06/23/2016

Conductivity (umhos/cm): 219

Site Midpoint (Latitude, Longitude): 44.05014956, -103.77144194

Site Length (m): 100

pH: 7.3

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 5.1

Water Temperature (C):

Stream Classification: BK3, BR1

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	10	10	11	10	196	9	100	79	8.19	161	151.5	46.8
Brook Trout	>=200mm	3	3	4	3	59	6	30	24	5.74	48	217.3	109.3
Brook Trout	All	13	13	14	13	255	16	130	103	14.21	209	166.7	62.4
Brown Trout	<200mm	31	33	38	31	647	25	330	262	22.12	531	126.3	38.3
Brown Trout	>=200mm	31	31	32	31	608	111	310	246	99.30	499	254.2	183.0
Brown Trout	All	62	63	66	62	1235	148	630	500	132.17	1014	190.3	119.8

Site Number: 379

Date Sampled: 06/23/2016

Conductivity (umhos/cm): 223

Site Midpoint (Latitude, Longitude): 44.04695810, -103.77288355

Site Length (m): 100

pH: 7.6

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 4.7

Water Temperature (C):

Stream Classification: BK2, BR2

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	21	21	22	21	449	22	210	182	19.36	338	134.0	48.3
Brook Trout	>=200mm	4	4	5	4	86	9	40	35	7.91	64	213.8	103.5
Brook Trout	All	25	25	26	25	535	32	250	217	28.33	402	146.8	59.3
Brown Trout	<200mm	13	13	14	13	278	13	130	113	11.92	209	160.9	48.0
Brown Trout	>=200mm	10	10	10	10	214	48	100	87	42.90	161	280.0	224.5

Brown Trout All 23 23 24 23 492 61 230 199 54.82 370 212.7 124.7

Site Number: 384
Site Midpoint (Latitude, Longitude): 44.04396904, -103.77363060
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK2, BR1

Date Sampled: 05/17/2016
Site Length (m): 100
Mean Width (m): 5.5
Number of Pass: 3
Conductivity (umhos/cm): 392
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	28	28	30	28	512	24	280	207	21.60	451	162.7	47.3
Brook Trout	>=200mm	14	14	15	14	256	54	140	104	48.41	225	242.6	211.9
Brook Trout	All	42	42	44	42	767	78	420	311	70.01	676	189.3	102.2
Brown Trout	<200mm	53	60	71	53	1096	57	600	444	50.55	965	157.8	51.6
Brown Trout	>=200mm	100	102	106	100	1864	381	1020	755	340.60	1641	269.4	204.7
Brown Trout	All	153	161	170	153	2942	452	1610	1191	403.62	2590	230.8	153.7

Site Number: 388
Site Midpoint (Latitude, Longitude): 44.04338453, -103.77130517
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK2, BR1

Date Sampled: 05/17/2016
Site Length (m): 100
Mean Width (m): 4.9
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C):
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	35	36	39	35	729	26	360	295	22.94	579	151.7	35.2
Brook Trout	>=200mm	5	5	5	5	101	10	50	41	8.54	80	218.6	94.4
Brook Trout	All	40	40	42	40	810	35	400	328	30.84	644	160.0	42.6
Brown Trout	<200mm	61	65	72	61	1317	40	650	533	36.06	1046	131.7	30.7
Brown Trout	>=200mm	24	24	24	24	486	75	240	197	66.96	386	244.8	154.3

Brown Trout All 85 87 91 85 1762 123 870 714 109.68 1400 163.6 69.7

Site Number: 410
Site Midpoint (Latitude, Longitude): 44.03214464, -103.77869838
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK1, BR1

Date Sampled: 06/23/2016
Site Length (m): 100
Mean Width (m): 5.6
Number of Pass: 3
Conductivity (umhos/cm): 192
pH: 7.1
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	28	42	74	28	755	40	420	306	36.05	676	157.0	53.5
Brook Trout	>=200mm	41	42	45	41	755	105	420	306	93.49	676	233.5	138.7
Brook Trout	All	69	77	88	69	1384	145	770	561	129.59	1239	202.4	104.9
Brown Trout	<200mm	52	62	77	52	1114	56	620	451	50.32	998	160.4	50.6
Brown Trout	>=200mm	110	111	114	110	1995	593	1110	808	529.73	1786	290.6	297.4
Brown Trout	All	162	168	175	162	3020	659	1680	1223	588.17	2703	248.8	218.2

Site Number: 417
Site Midpoint (Latitude, Longitude): 44.03016917, -103.78286708
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK1, BR1

Date Sampled: 05/17/2016
Site Length (m): 100
Mean Width (m): 6.4
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	131	132	135	131	2060	90	1320	834	80.57	2124	153.2	43.8
Brook Trout	>=200mm	101	101	103	101	1576	219	1010	638	195.82	1625	238.3	139.2
Brook Trout	All	232	234	238	232	3651	316	2340	1479	282.37	3765	190.2	86.6
Brown Trout	<200mm	32	32	33	32	499	28	320	202	24.95	515	166.0	56.0
Brown Trout	>=200mm	88	88	89	88	1373	353	880	556	315.28	1416	278.3	257.2

Brown Trout All 120 120 121 120 1872 380 1200 758 339.48 1931 248.3 203.1

Site Number: 483

Date Sampled: 07/11/2016

Conductivity (umhos/cm): 248

Site Midpoint (Latitude, Longitude): 44.02086149, -103.83725124

Site Length (m): 100

pH: 8.8

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 3.2

Water Temperature (C):

Stream Classification: BK1, RB1

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	110	134	159	110	4236	160	1340	1715	143.05	2156	147.2	37.8
Brook Trout	>=200mm	26	31	42	26	980	98	310	397	87.09	499	215.7	99.5
Brook Trout	All	136	168	197	139	5310	264	1680	2151	235.70	2703	160.3	49.7
Rainbow Trout	<200mm	6	6	8	6	190	10	60	77	8.61	97	165.0	50.8
Rainbow Trout	>=200mm	4	4	4	4	126	18	40	51	15.69	64	249.0	139.0
Rainbow Trout	All	10	10	12	10	316	27	100	128	24.30	161	198.6	86.1

Site Number: 515

Date Sampled: 06/21/2016

Conductivity (umhos/cm): 445

Site Midpoint (Latitude, Longitude): 44.03404890, -103.84985340

Site Length (m): 100

pH: 6.8

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 2.0

Water Temperature (C): 14.9

Stream Classification: BK2, RB2

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	88	94	102	88	4596	129	940	1861	115.42	1512	123.9	28.1
Brook Trout	>=200mm	7	7	7	7	342	35	70	139	31.25	113	217.0	102.3
Brook Trout	All	96	102	110	96	4987	171	1020	2020	152.43	1641	130.8	34.2
Rainbow Trout	<200mm	3	3	4	3	147	8	30	59	6.90	48	170.7	52.7
Rainbow Trout	>=200mm	1	1	2	1	49	5	10	20	4.45	16	220.0	102.0

Rainbow Trout	All	4	4	6	4	196	13	40	79	11.35	64	183.0	65.0
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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 Castle Creek, 2006-2016

Site 181

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 08, 2009	7	7-7	
	Sep 23, 2015	39	38-42	
	Jun 29, 2016	58	58-60	
Brown Trout >=200mm	Jul 08, 2009	2	2-2	BR3
	Sep 23, 2015	11	11-12	BR2
	Jun 29, 2016	20	20-22	BR1
White Sucker	Jun 29, 2016	6	6-7	

Site 213

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jun 09, 2009	16	16-17	
	Jul 02, 2014	29	29-31	
	Sep 23, 2015	21	20-25	
	Jun 29, 2016	64	64-65	
Brown Trout >=200mm	Jun 09, 2009	4	4-5	BR2
	Jul 02, 2014	14	14-15	BR2
	Sep 23, 2015	5	5-6	BR2
	Jun 29, 2016	11	11-11	BR2
Mountain Sucker	Jun 09, 2009	1	1-1	
Rainbow Trout >=200mm	Jun 09, 2009	1	1-1	RB2
White Sucker	Jun 09, 2009	1	1-2	
	Sep 23, 2015	3	3-4	
	Jun 29, 2016	1	1-1	

Site 220

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 29, 2016	1	1-2	
Brown Trout <200mm	Jul 09, 2009	36	35-39	
	Jul 03, 2014	36	31-46	
	Jun 29, 2016	40	39-43	
Brown Trout >=200mm	Jul 09, 2009	3	3-4	BR2
	Jul 03, 2014	8	8-9	BR2
	Jun 29, 2016	14	14-16	BR2
Mountain Sucker	Jun 29, 2016	1	1-1	
Rainbow Trout <200mm	Jul 03, 2014	2	2-4	
White Sucker	Jul 03, 2014	3	3-3	

Site 296

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 21, 2016	128	94-167	
Brook Trout >=200mm	Jul 21, 2016	14	12-21	BK2
Rainbow Trout <200mm	Jul 21, 2016	23	19-34	

Rainbow Trout >=200mm	Jul 21, 2016	6	5-13	RB1
Rock Bass	Jul 21, 2016	111	103-121	

Site 373

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 17, 2007	57	50-68	
	Sep 23, 2008	41	41-42	
	Aug 15, 2012	79	79-80	
	May 17, 2013	54	53-57	
	May 23, 2014	45	38-58	
	Jun 23, 2016	10	10-11	
Brook Trout >=200mm	Sep 17, 2007	2	2-3	BK3
	Sep 23, 2008	7	7-8	BK2
	Aug 15, 2012	24	24-25	BK1
	May 17, 2013	42	42-44	BK1
	May 23, 2014	59	23-202	BK1
	Jun 23, 2016	3	3-4	BK3

Brown Trout <200mm	Sep 17, 2007	31	26-42	
	Sep 23, 2008	30	27-37	
	Aug 15, 2012	27	27-28	
	May 17, 2013	38	33-48	
	May 23, 2014	74	69-82	
	Jun 23, 2016	33	31-38	
Brown Trout >=200mm	Sep 17, 2007	15	15-16	BR2
	Sep 23, 2008	13	13-14	BR2
	Aug 15, 2012	23	23-24	BR1
	May 17, 2013	20	20-21	BR2
	May 23, 2014	18	18-19	BR2
	Jun 23, 2016	31	31-32	BR1

Site 379

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Oct 01, 2007	69	69-69	
	Sep 23, 2008	5	5-5	

Brook Trout <200mm	Jun 25, 2014	15	13-22	
	Jun 23, 2016	21	21-22	
Brook Trout >=200mm	Oct 01, 2007	1	1-1	BK3
	Sep 23, 2008	5	5-5	BK2
	Jun 25, 2014	1	1-1	BK3
	Jun 23, 2016	4	4-5	BK2
Brown Trout <200mm	Oct 01, 2007	34	34-34	
	Sep 23, 2008	12	12-14	
	Jun 25, 2014	20	20-21	
	Jun 23, 2016	13	13-14	
Brown Trout >=200mm	Oct 01, 2007	10	10-10	BR2
	Sep 23, 2008	10	10-10	BR2
	Jun 25, 2014	11	11-13	BR2
	Jun 23, 2016	10	10-10	BR2

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 20, 2006	14	14-14	
	May 27, 2014	35	34-39	
	May 17, 2016	28	28-30	
Brook Trout >=200mm	Sep 20, 2006	5	5-7	BK2
	May 27, 2014	17	16-21	BK2
	May 17, 2016	14	14-15	BK2
Brown Trout <200mm	Sep 20, 2006	79	79-80	
	May 27, 2014	72	41-136	
	May 17, 2016	60	53-71	
Brown Trout >=200mm	Sep 20, 2006	44	44-46	BR1
	May 27, 2014	51	33-88	BR1
	May 17, 2016	102	100-106	BR1

Site 388

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 27, 2014	23	23-24	

Brook Trout <200mm	May 17, 2016	36	35-39	
Brook Trout >=200mm	May 27, 2014	5	5-7	BK2
	May 17, 2016	5	5-5	BK2
Brown Trout <200mm	May 27, 2014	29	29-30	
	May 17, 2016	65	61-72	
Brown Trout >=200mm	May 27, 2014	18	18-19	BR2
	May 17, 2016	24	24-24	BR1

Site 410

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 12, 2013	54	46-67	
	May 20, 2014	35	32-42	
	Jun 23, 2016	42	28-74	
Brook Trout >=200mm	Aug 12, 2013	60	56-67	BK1
	May 20, 2014	33	26-49	BK1
	Jun 23, 2016	42	41-45	BK1
Brown Trout <200mm	Aug 12, 2013	94	82-109	

Brown Trout <200mm	May 20, 2014	48	42-59	
	Jun 23, 2016	62	52-77	
Brown Trout >=200mm	Aug 12, 2013	58	54-65	BR1
	May 20, 2014	32	28-41	BR1
	Jun 23, 2016	111	110-114	BR1
Rainbow Trout >=200mm	Aug 12, 2013	1	1-1	RB2

Site 417

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 20, 2006	73	72-76	
	Jun 18, 2009	32	30-38	
	Jun 08, 2012	381	117-960	
	May 16, 2013	130	96-169	
	May 19, 2014	21	21-22	
	May 19, 2014	19	19-21	
	May 17, 2016	132	131-135	
Brook Trout >=200mm	Sep 20, 2006	93	92-96	BK1

Brook Trout >=200mm	Jun 18, 2009	12	12-12	BK2
	Jun 08, 2012	236	221-251	BK1
	May 16, 2013	182	170-194	BK1
	May 19, 2014	81	77-87	BK1
	May 19, 2014	83	79-89	BK1
	May 17, 2016	101	101-103	BK1
Brown Trout <200mm	Sep 20, 2006	50	50-52	
	Jun 18, 2009	35	26-55	
	Jun 08, 2012	6	6-7	
	May 16, 2013	17	18-22	
	May 19, 2014	40	32-56	
	May 19, 2014	39	32-53	
	May 17, 2016	32	32-33	
Brown Trout >=200mm	Sep 20, 2006	39	39-40	BR1
	Jun 18, 2009	16	16-17	BR2
	Jun 08, 2012	30	29-33	BR1

Brown Trout >=200mm	May 16, 2013	46	46-48	BR1
	May 19, 2014	25	23-31	BR1
	May 19, 2014	26	23-34	BR1
	May 17, 2016	88	88-89	BR1
White Sucker	Jun 08, 2012	6	6-9	
	May 16, 2013	5	5-7	
	May 19, 2014	1	1-1	
	May 19, 2014	1	1-1	

Site 483

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 21, 2009	98	98-99	
	Jul 09, 2012	158	150-167	
	Jun 19, 2014	94	86-104	
	Jul 11, 2016	134	110-159	
Brook Trout >=200mm	Aug 21, 2009	5	5-5	BK2
	Jul 09, 2012	6	6-6	BK2

Brook Trout >=200mm	Jun 19, 2014	10	10-12	BK2
	Jul 11, 2016	31	26-42	BK1
Rainbow Trout <200mm	Aug 21, 2009	10	10-10	
	Jul 09, 2012	6	6-6	
	Jun 19, 2014	25	14-67	
	Jul 11, 2016	6	6-8	
Rainbow Trout >=200mm	Aug 21, 2009	1	1-1	RB2
	Jul 09, 2012	4	4-4	RB1
	Jun 19, 2014	11	11-13	RB1
	Jul 11, 2016	4	4-4	RB1
Rock Bass	Jul 09, 2012	12	12-13	

Site 515

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 26, 2009	123	101-147	
	Jul 01, 2014	228	211-245	
	Jun 21, 2016	94	88-102	

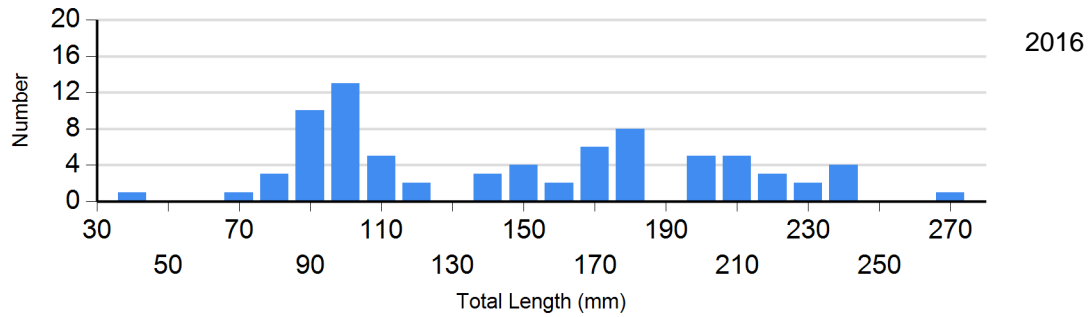
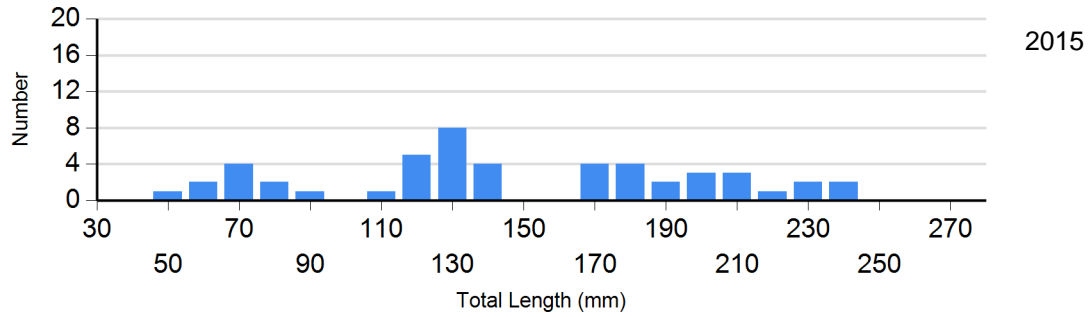
Brook Trout >=200mm	Jul 01, 2014	3	3-3	BK2
	Jun 21, 2016	7	7-7	BK2
Rainbow Trout <200mm	Jul 01, 2014	9	8-14	
	Jun 21, 2016	3	3-4	
Rainbow Trout >=200mm	Jul 01, 2014	1	1-1	RB2
	Jun 21, 2016	1	1-2	RB2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

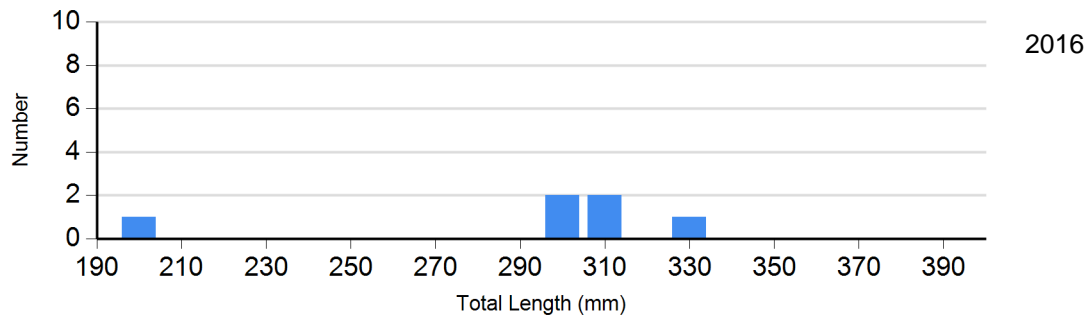
Site: 181

Species: Brown Trout

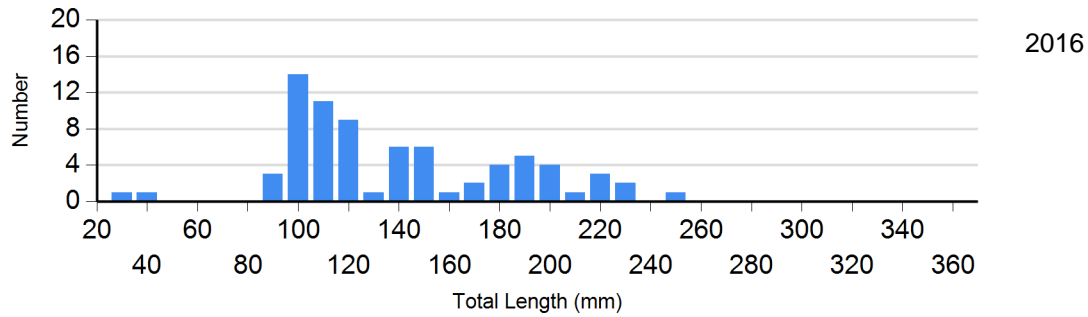
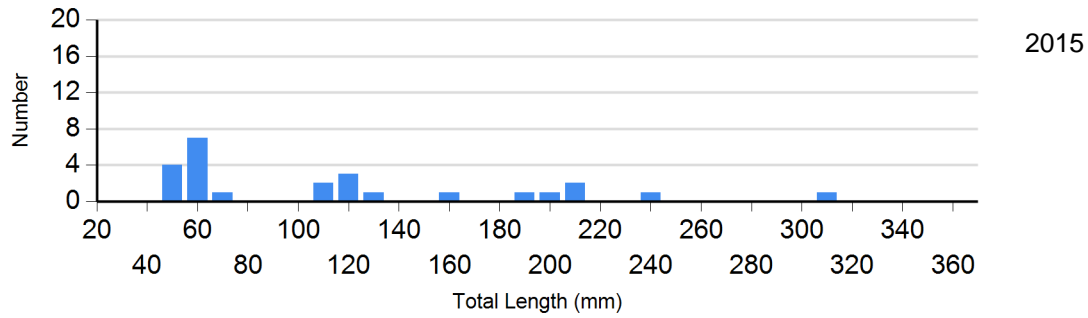
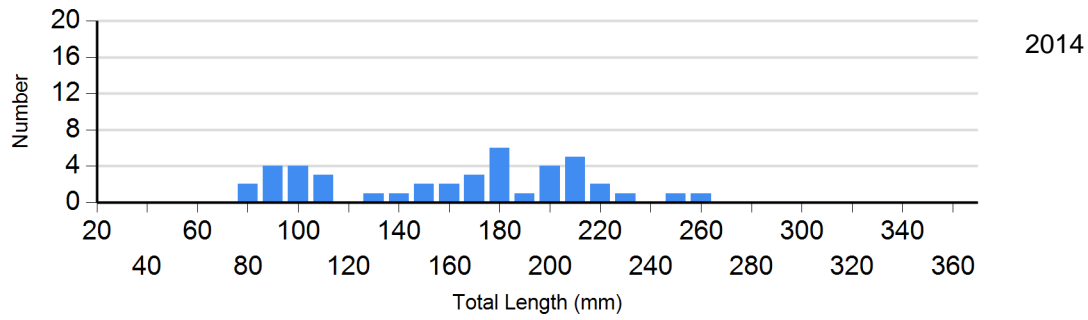


Site: 181

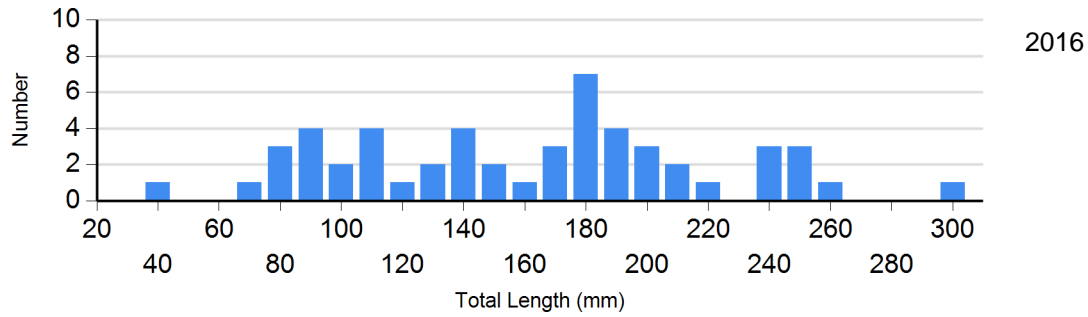
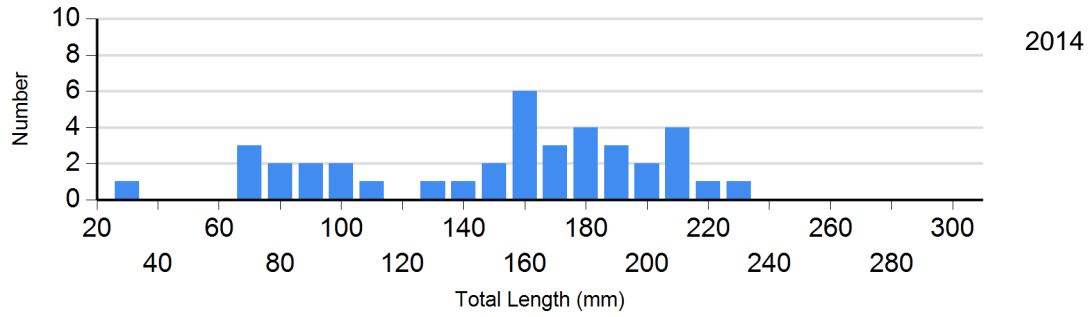
Species: White Sucker



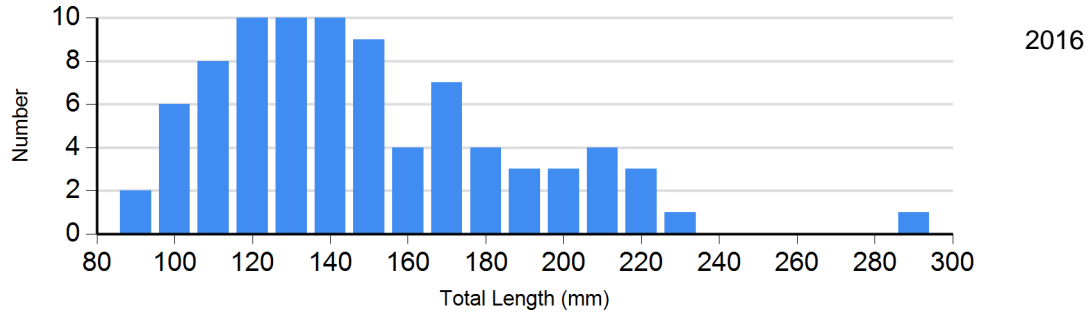
Site: 213
Species: Brown Trout



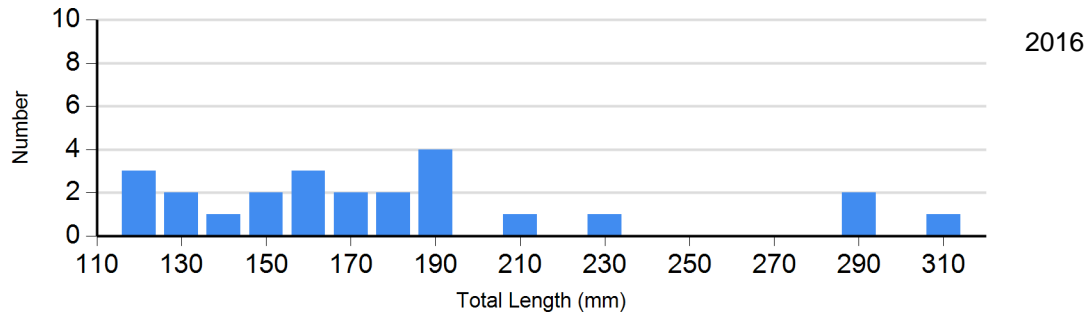
Site: 220
Species: Brown Trout



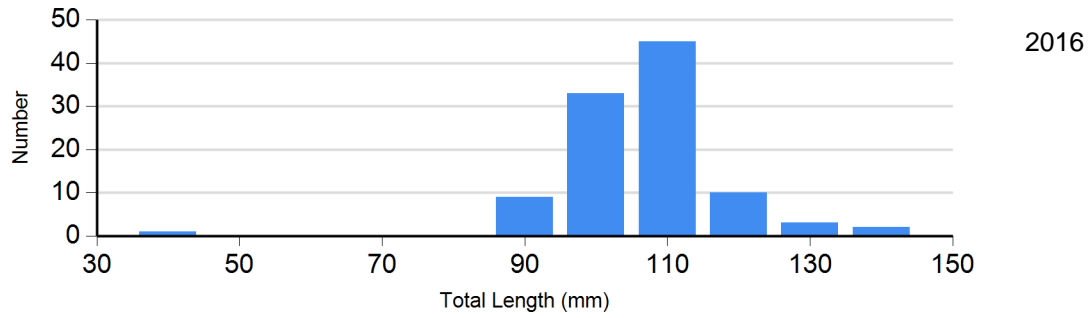
Site: 296
Species: Brook Trout



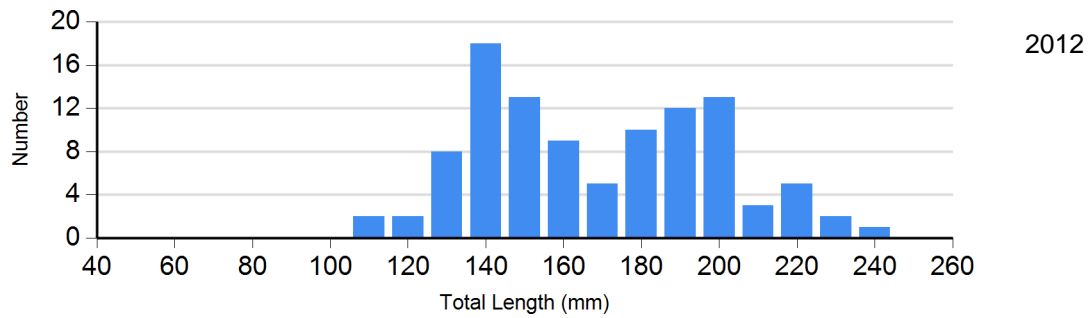
Site: 296
Species: Rainbow Trout

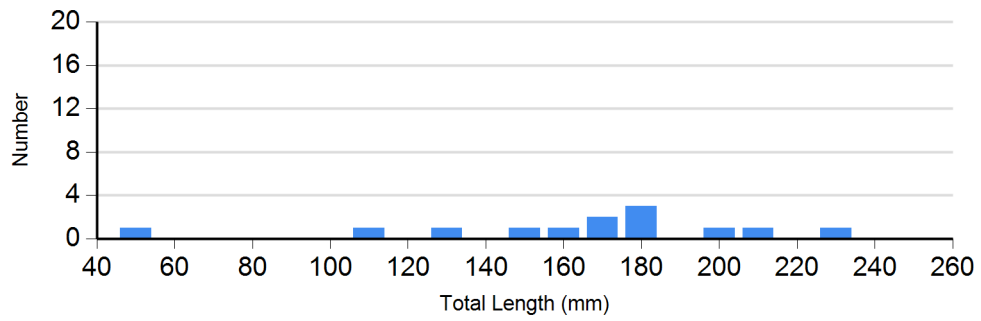
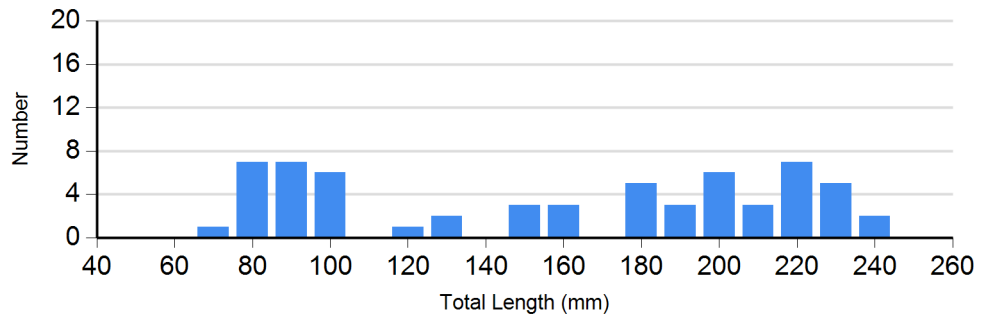
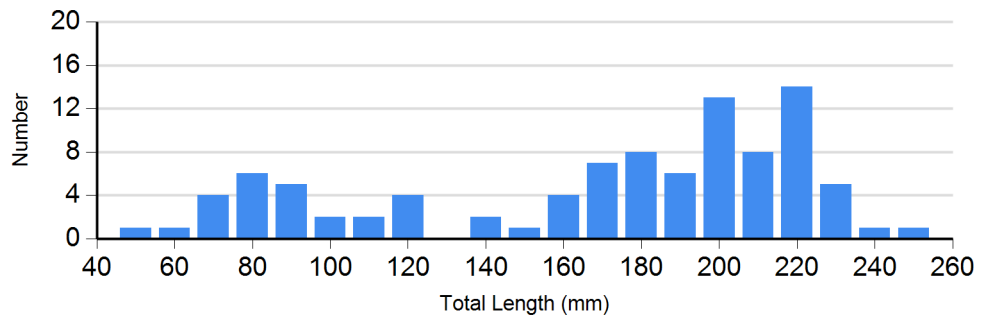


Site: 296
Species: Rock Bass

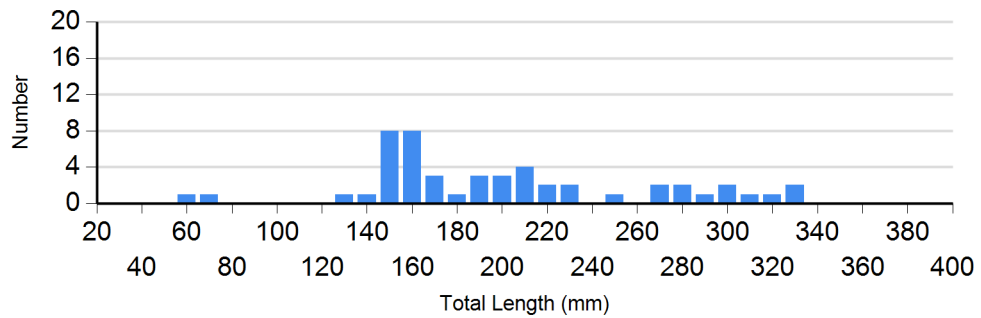


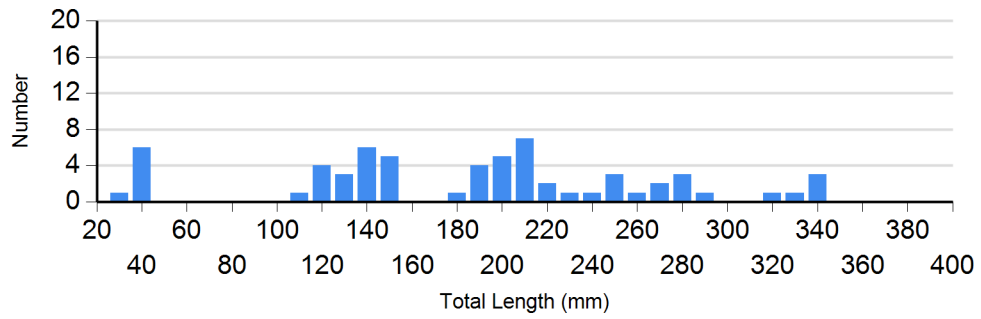
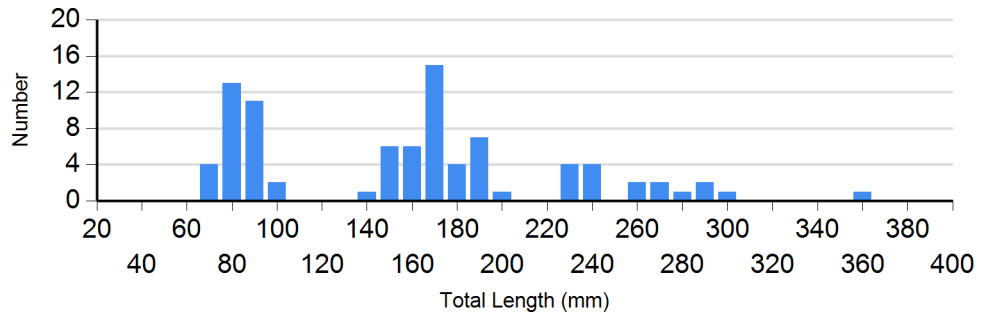
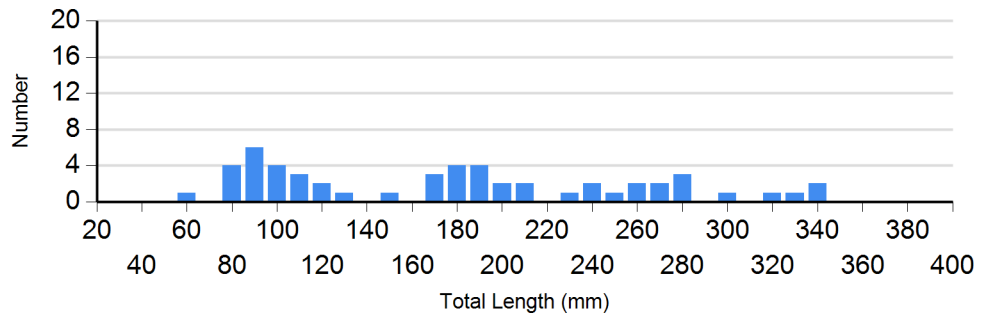
Site: 373
Species: Brook Trout



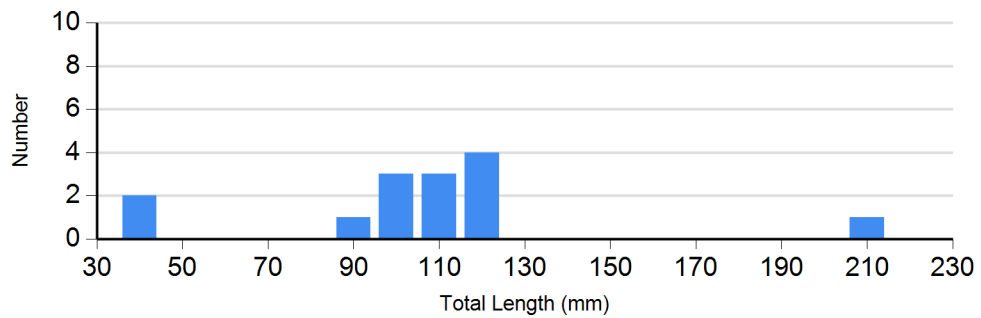


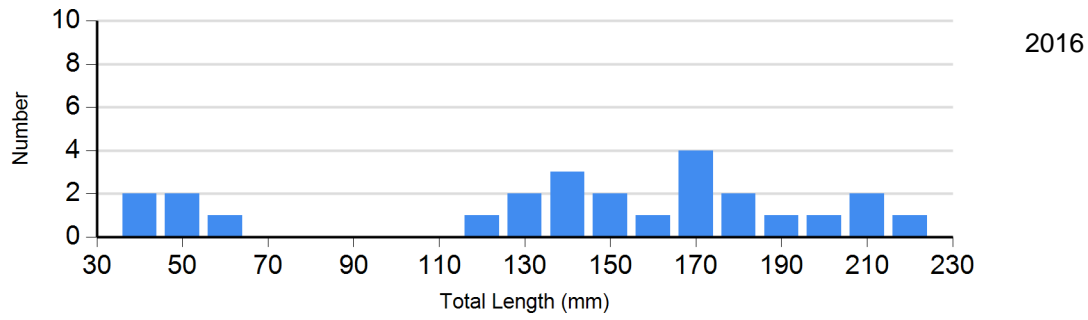
Site: 373
Species: Brown Trout



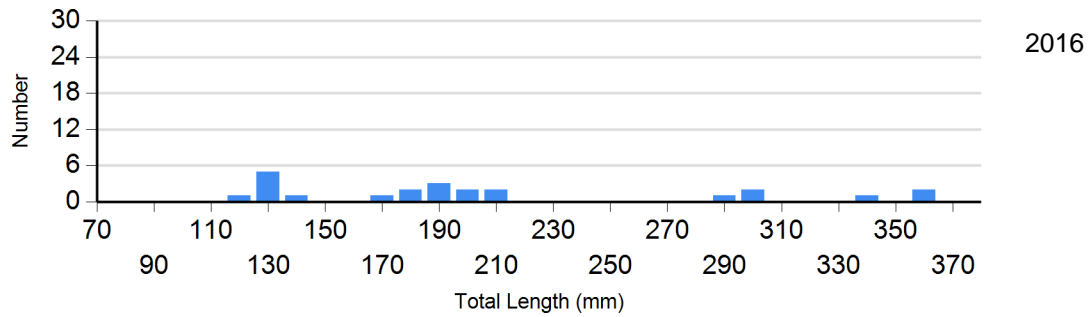
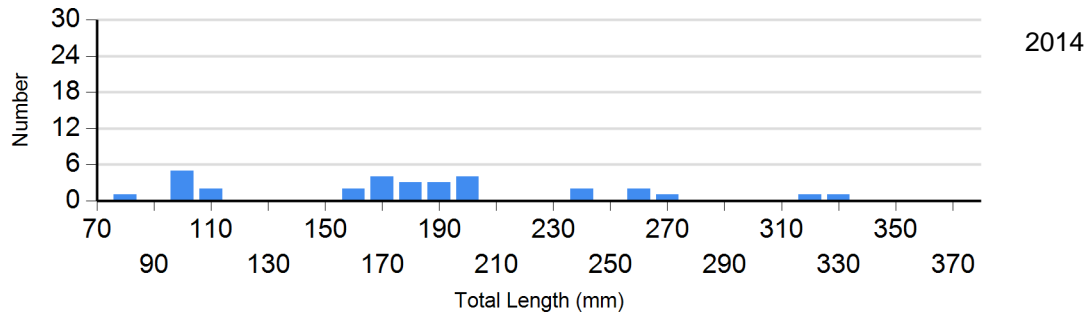


Site: 379
Species: Brook Trout

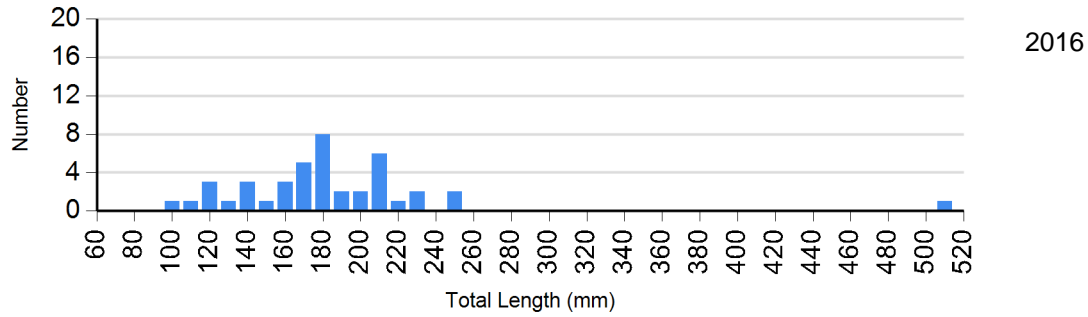
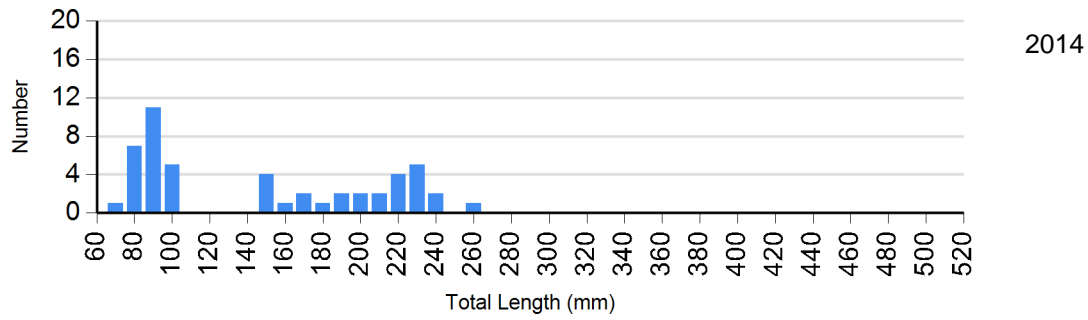




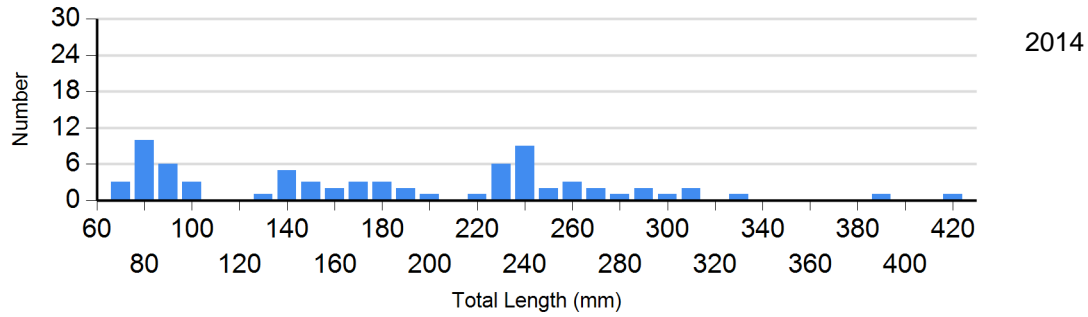
Site: 379
Species: Brown Trout

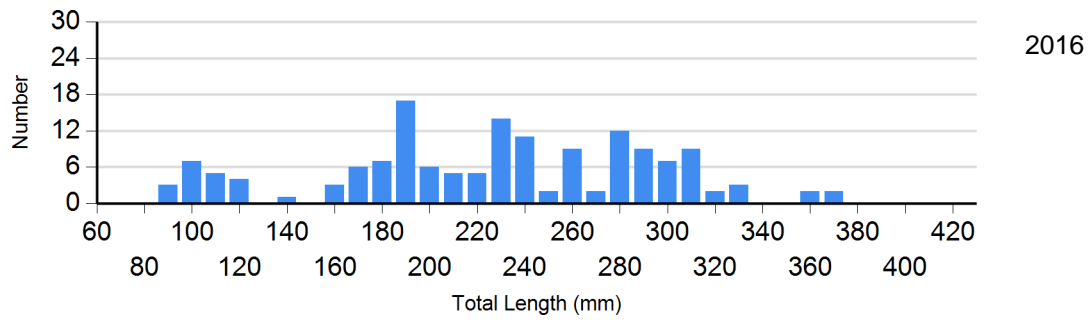


Site: 384
Species: Brook Trout

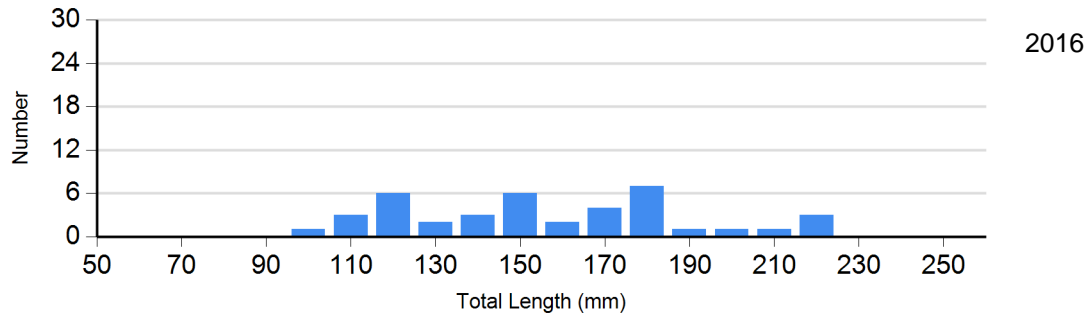
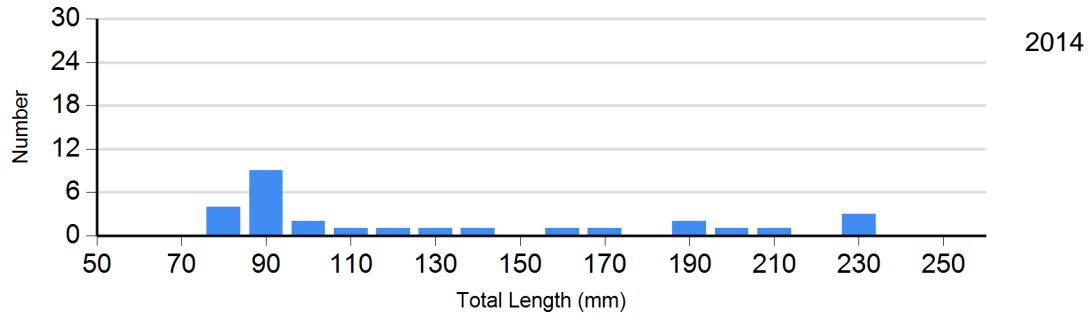


Site: 384
Species: Brown Trout

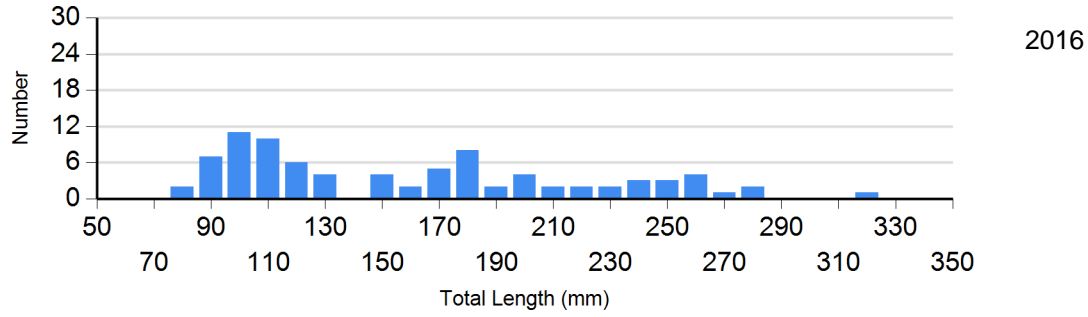
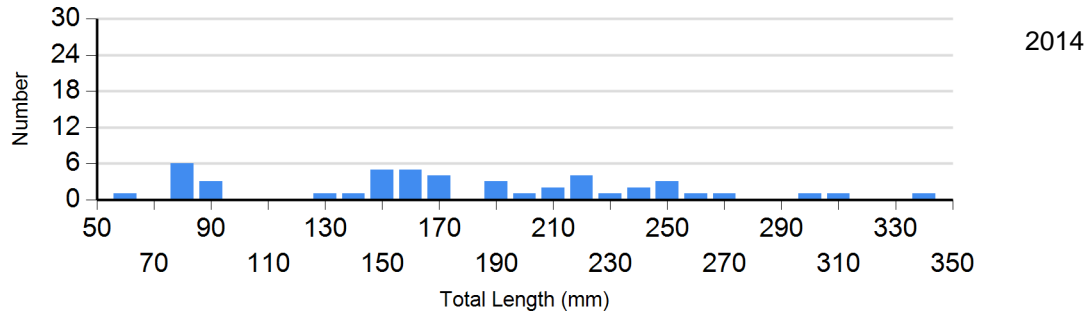




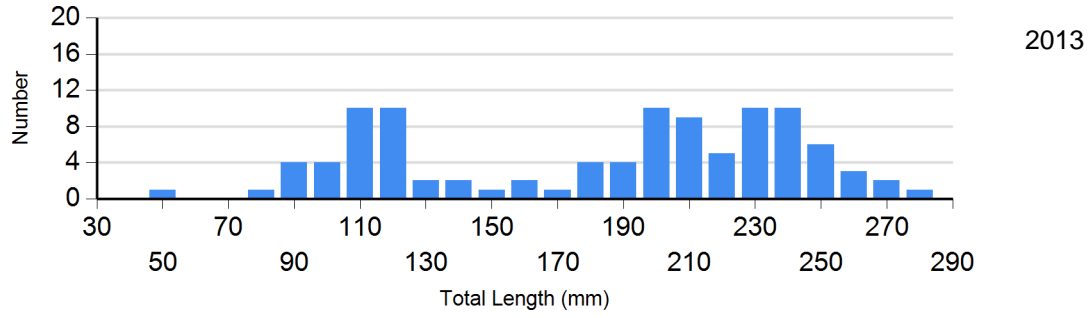
Site: 388
Species: Brook Trout

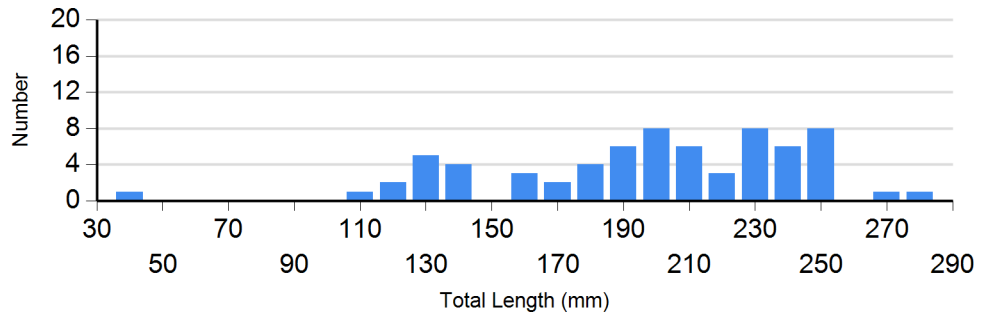
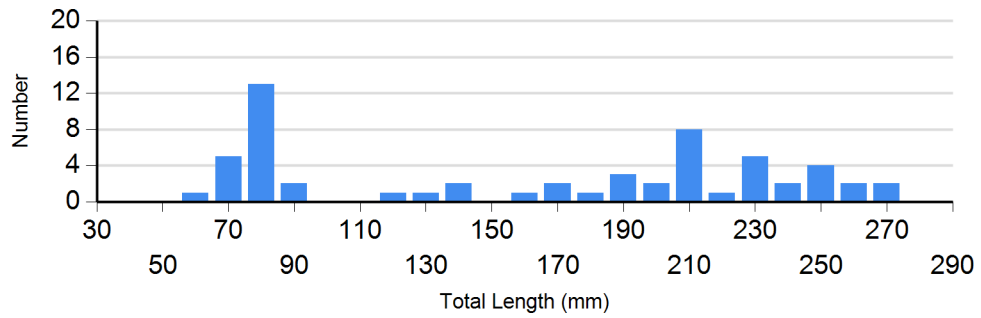


Site: 388
Species: Brown Trout

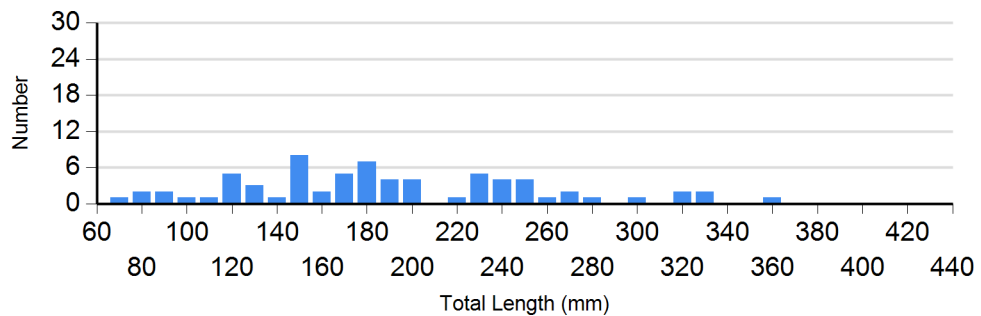
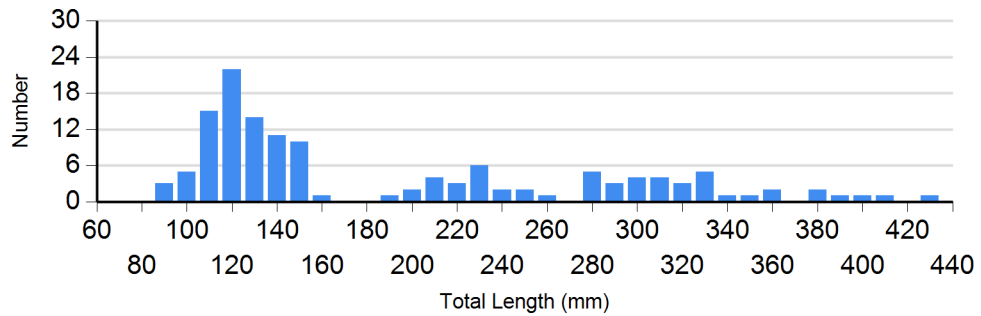


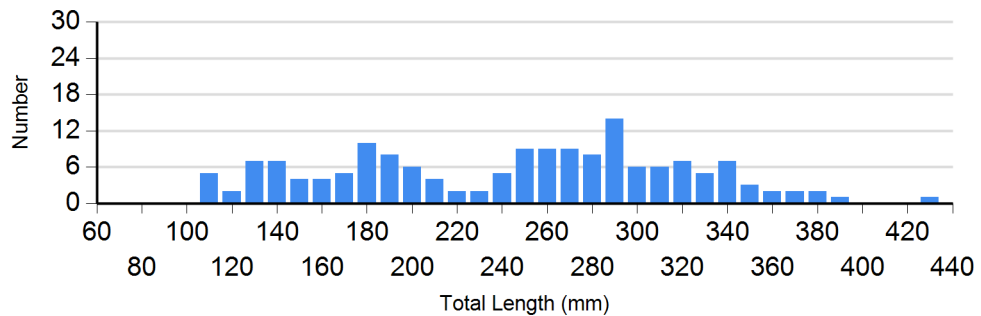
Site: 410
Species: Brook Trout



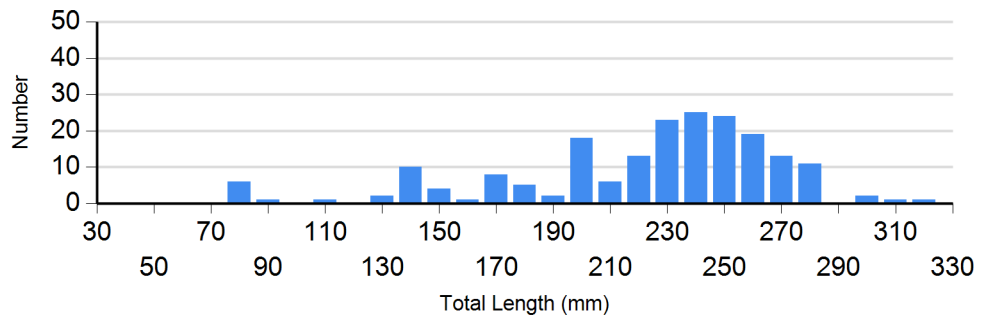
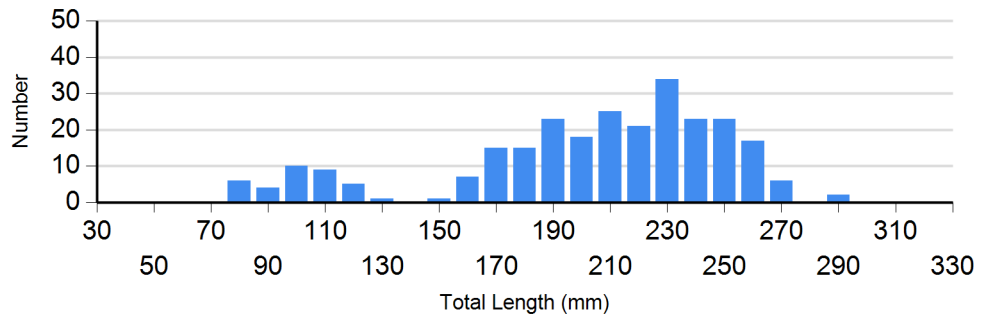
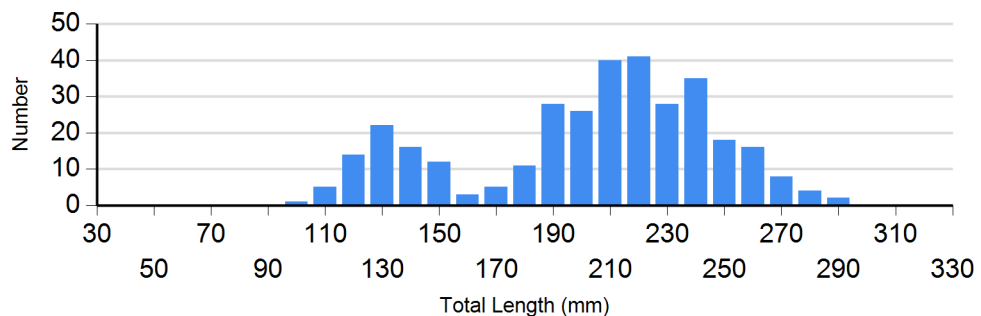


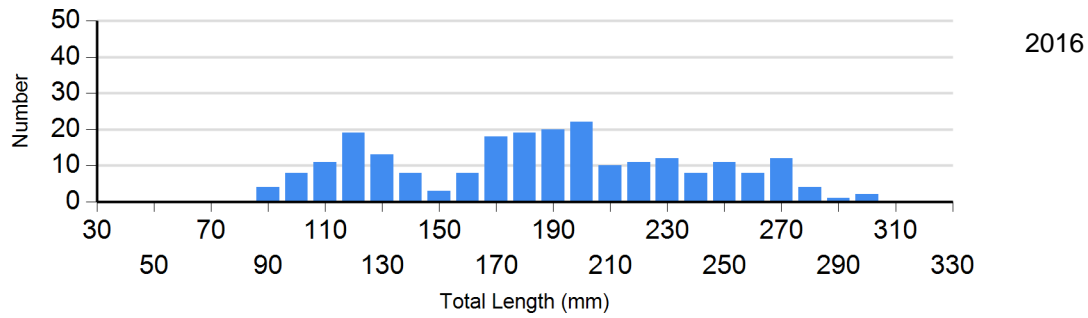
Site: 410
Species: Brown Trout



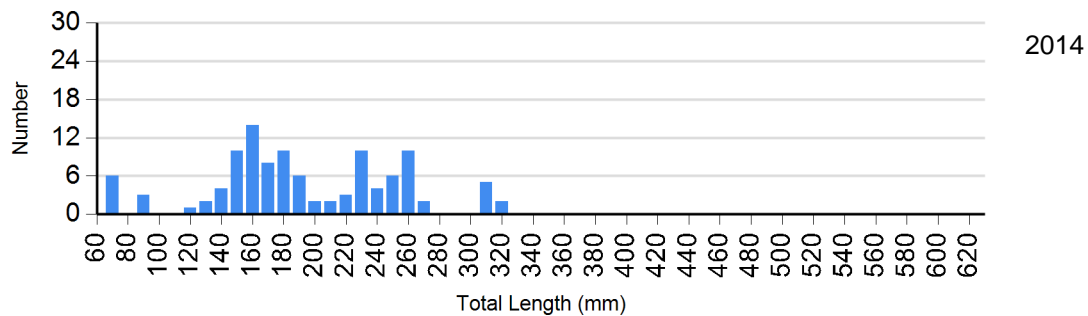
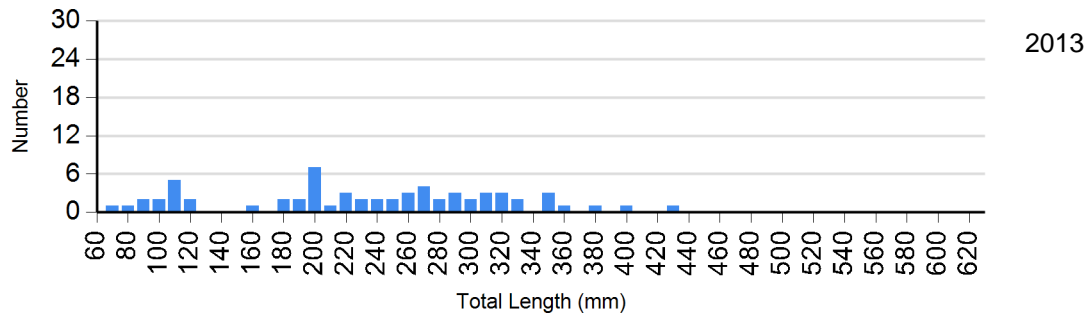
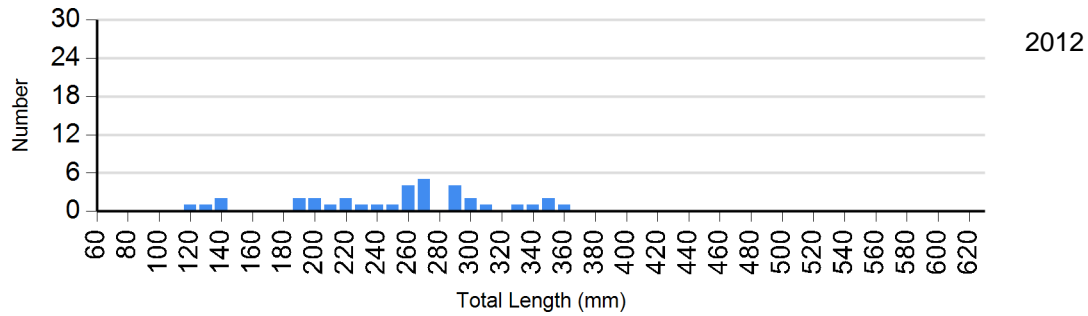


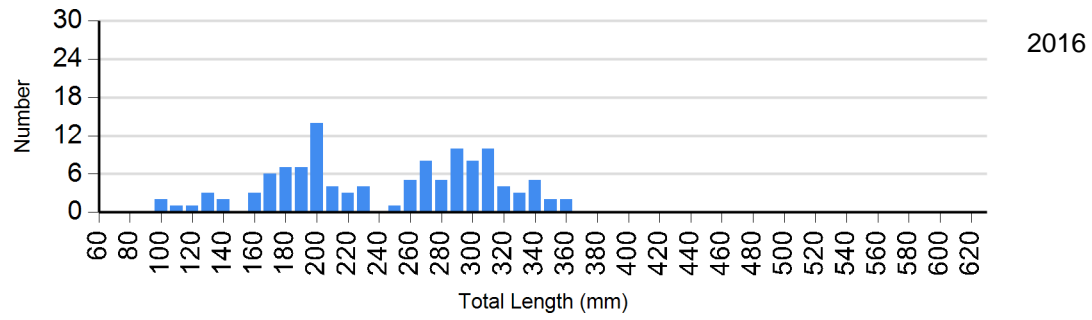
Site: 417
Species: Brook Trout



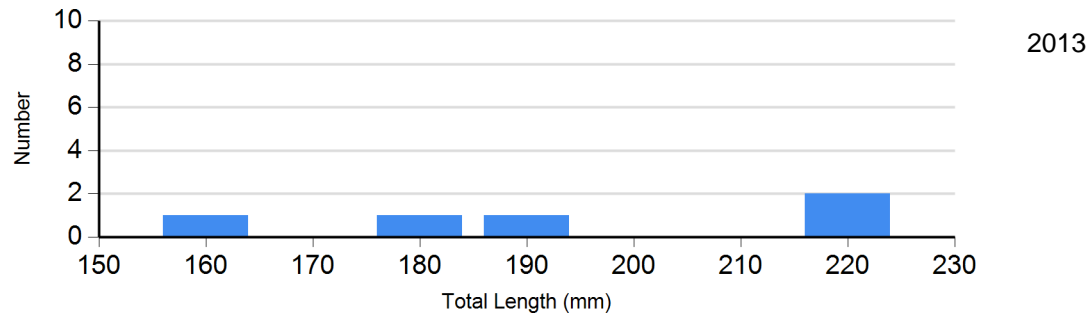
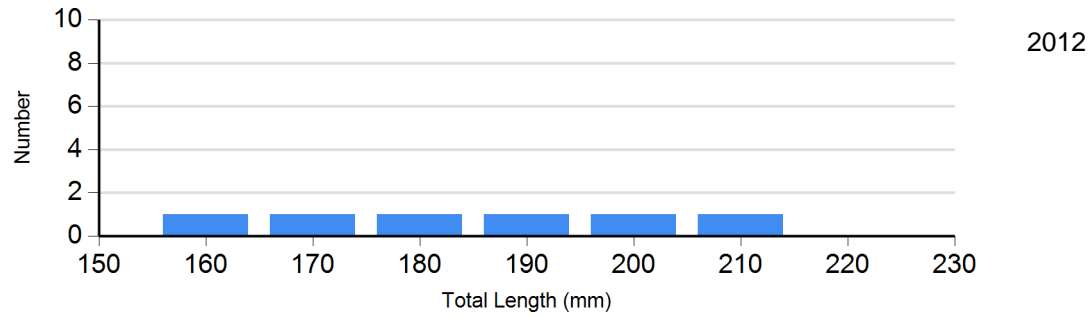


Site: 417
Species: Brown Trout

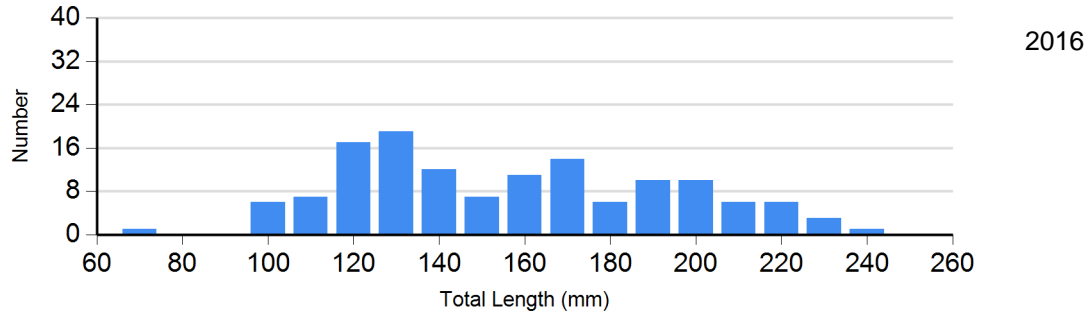
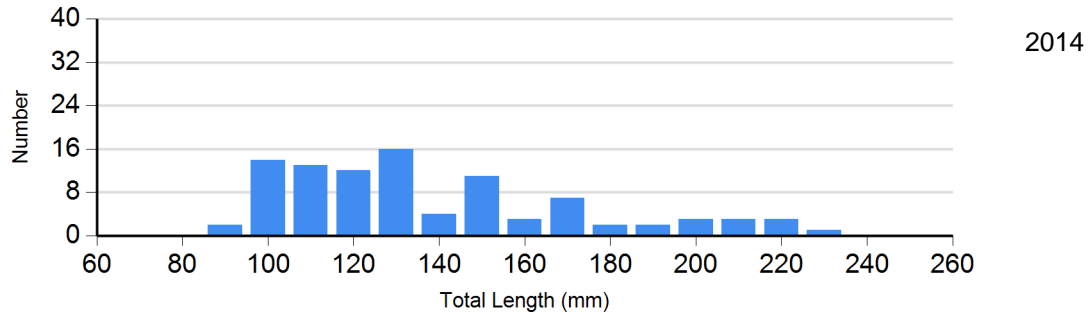
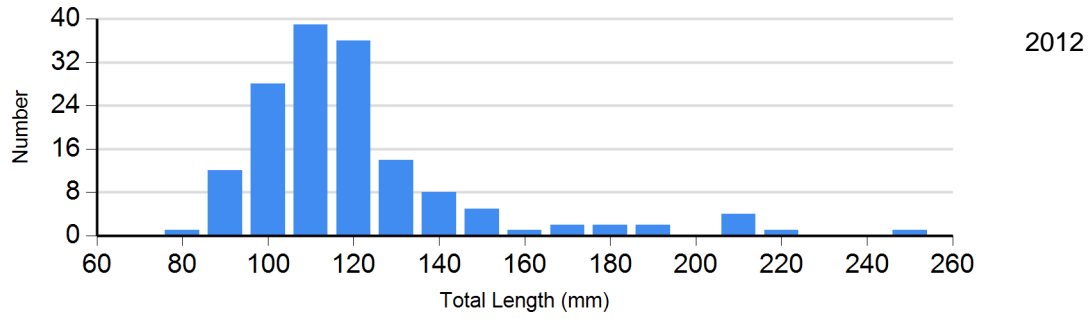




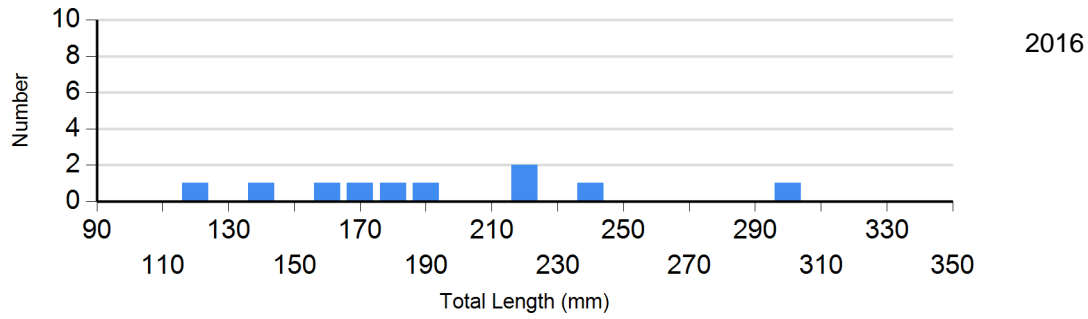
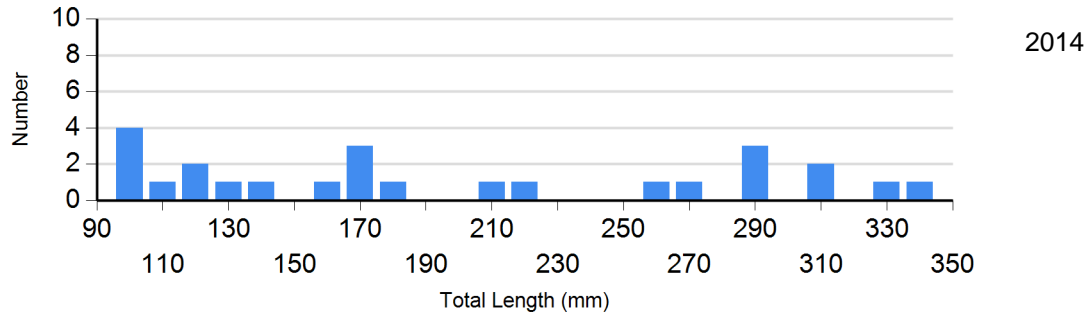
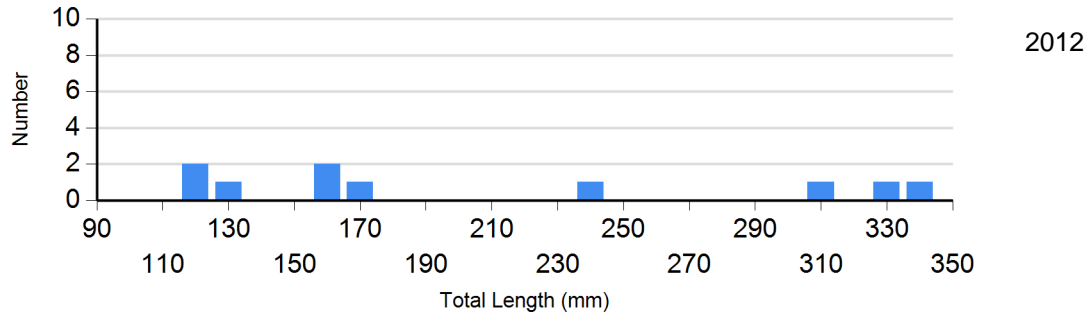
Site: 417
Species: White Sucker



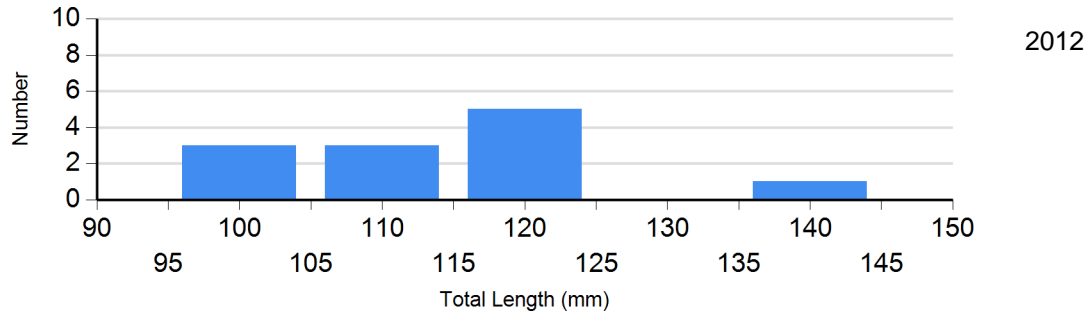
Site: 483
Species: Brook Trout



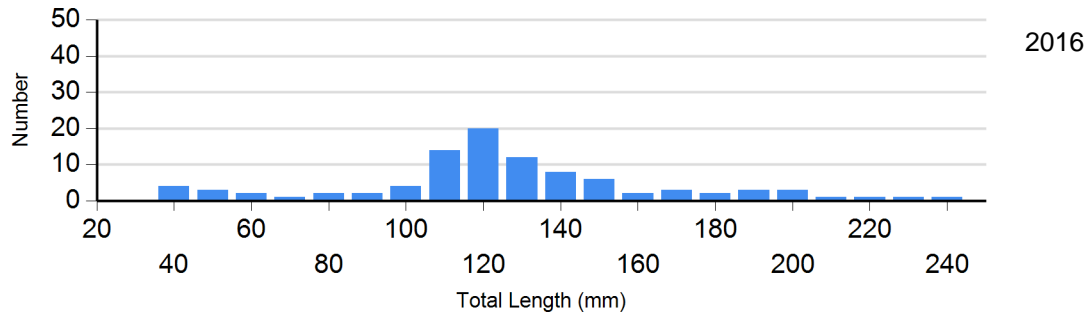
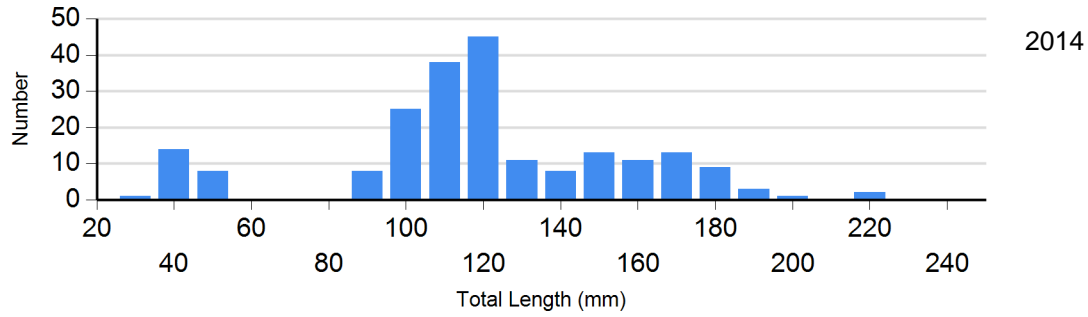
Site: 483
Species: Rainbow Trout



Site: 483
Species: Rock Bass



Site: 515
Species: Brook Trout



Site: 515
Species: Rainbow Trout

