

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Castle Creek, Pennington County
02-0071-00
2018

Table 1. Population and Biomass Estimates for Castle Creek

Site Number: 92	Date Sampled: 08/07/2018	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.06142514, -103.66840783	Site Length (m): 100	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 4.7	Water Temperature (C): 11.0
Stream Classification: BR2, 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)
Brown Trout	<200mm	48	63	87	48	1335	34	630	541	30.60	1014	124.8	25.7
Brown Trout	>=200mm	6	8	19	6	170	17	80	69	15.32	129	216.5	101.2
Brown Trout	All	54	75	108	54	1590	56	750	644	49.82	1207	135.0	35.1
Rainbow Trout	<200mm	1	1	2	1	21	1	10	9	0.51	16	142.0	27.0
Rainbow Trout	>=200mm	15	15	15	15	318	90	150	129	80.26	241	301.2	282.7
Rainbow Trout	All	16	16	17	16	339	90	160	137	80.77	257	291.3	266.8
White Sucker	All	3	3	3	3	64	1	30	26	1.14	48	109.0	20.0

Site Number: 181	Date Sampled: 07/11/2018	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.06727345, -103.70716435	Site Length (m): 100	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 6.4	Water Temperature (C):
Stream Classification: BR0	Number of Pass: 1	Voltage:

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	10	10	10	10	157	6	100	64	5.07	161	140.0	36.1
Brown Trout	All	10	10	10	10	157	6	100	64	5.07	161	140.0	36.1

White Sucker All 3 3 3 3 47 22 30 19 19.35 48 348.7 459.7

Site Number: 213

Date Sampled: 07/11/2018

Conductivity (umhos/cm):

Site Midpoint (Latitude, Longitude): 44.07800737, -103.71756559

Site Length (m): 100

pH:

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 3.6

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	30	30	32	30	827	30	300	335	26.87	483	143.1	36.4
Brown Trout	>=200mm	13	13	14	13	358	47	130	145	41.87	209	229.5	130.8
Brown Trout	All	43	44	47	43	1213	80	440	491	71.85	708	169.2	66.3

Site Number: 239

Date Sampled: 06/12/2018

Conductivity (umhos/cm):

Site Midpoint (Latitude, Longitude): 44.07777124, -103.73016114

Site Length (m): 100

pH:

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 5.4

Water Temperature (C): 11.0

Stream Classification: BK3, 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	17	20	29	17	368	10	200	149	8.68	322	129.1	26.4
Brook Trout	>=200mm	3	3	4	3	55	5	30	22	4.53	48	212.3	92.0
Brook Trout	All	20	24	34	20	441	17	240	179	14.98	386	141.6	38.0
Brown Trout	<200mm	45	53	66	45	975	42	530	395	37.43	853	139.1	43.0
Brown Trout	>=200mm	11	11	12	11	202	26	110	82	22.80	177	223.2	126.2
Brown Trout	All	56	62	72	56	1140	71	620	462	63.20	998	155.6	62.1

Site Number: 249

Site Midpoint (Latitude, Longitude): 44.08152213, -103.72974261

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR2

Date Sampled: 08/07/2018

Site Length (m): 90

Mean Width (m): 6.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 12.0

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	20	20	22	20	334	12	222	135	11.00	358	147.0	36.9
Brown Trout	>=200mm	6	6	7	6	100	10	67	41	8.63	107	212.3	96.5
Brown Trout	All	26	27	30	26	451	23	300	183	20.60	483	162.0	51.2

Site Number: 361

Site Midpoint (Latitude, Longitude): 44.05523022, -103.76363258

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK0, BR2

Date Sampled: 06/13/2018

Site Length (m): 100

Mean Width (m): 4.6

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	9	12	25	9	260	7	120	105	6.07	193	131.9	26.1
Brook Trout	All	9	12	25	9	260	7	120	105	6.07	193	131.9	26.1
Brown Trout	<200mm	32	42	62	32	911	35	420	369	31.53	676	146.4	38.8
Brown Trout	>=200mm	15	15	15	15	325	46	150	132	41.48	241	236.0	142.7
Brown Trout	All	47	51	58	47	1107	80	510	448	71.07	821	175.0	71.9

Site Number: 373

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

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR2

Date Sampled: 06/13/2018

Site Length (m): 100

Mean Width (m): 5.6

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)
Brook Trout	<200mm	10	10	11	10	177	5	100	72	4.20	161	129.1	26.6
Brook Trout	>=200mm	2	2	3	2	35	3	20	14	3.02	32	209.0	95.5
Brook Trout	All	12	12	13	12	213	8	120	86	7.42	193	142.4	39.1
Brown Trout	<200mm	23	23	25	23	407	17	230	165	14.93	370	139.3	41.1
Brown Trout	>=200mm	16	16	17	16	283	38	160	115	33.96	257	227.8	134.2
Brown Trout	All	39	40	43	39	709	59	400	287	52.91	644	175.6	83.6

Site Number: 379
Site Midpoint (Latitude, Longitude): 44.04695810, -103.77288355
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK0, BR1

Date Sampled: 06/12/2018
Site Length (m): 100
Mean Width (m): 4.7
Number of Pass: 3
Conductivity (umhos/cm):
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	26	30	39	26	645	24	300	261	21.04	483	142.6	36.6
Brook Trout	All	26	30	39	26	645	24	300	261	21.04	483	142.6	36.6
Brown Trout	<200mm	74	76	80	74	1633	77	760	661	68.54	1223	148.4	47.0
Brown Trout	>=200mm	41	41	43	41	881	171	410	357	152.33	660	258.3	193.7
Brown Trout	All	115	118	123	115	2535	263	1180	1027	234.83	1899	187.6	103.7

Site Number: 379
Site Midpoint (Latitude, Longitude): 44.04695810, -103.77288355
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK0, BR2

Date Sampled: 06/13/2018
Site Length (m): 100
Mean Width (m): 4.9
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)
Brook Trout	<200mm	11	11	11	11	224	5	110	91	4.37	177	122.0	21.8
Brook Trout	All	11	11	11	11	224	5	110	91	4.37	177	122.0	21.8
Brown Trout	<200mm	26	26	28	26	531	14	260	215	12.59	418	124.9	26.6
Brown Trout	>=200mm	8	8	8	8	163	25	80	66	22.05	129	237.0	151.3
Brown Trout	All	34	34	36	34	694	40	340	281	35.78	547	151.3	57.8

Site Number: 384

Site Midpoint (Latitude, Longitude): 44.04396904, -103.77363060

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR1

Date Sampled: 06/13/2018

Site Length (m): 100

Mean Width (m): 5.1

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 7.0

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	21	21	23	21	415	8	210	168	7.45	338	106.2	20.1
Brook Trout	>=200mm	3	3	3	3	59	10	30	24	8.66	48	248.7	163.3
Brook Trout	All	24	24	26	24	475	23	240	192	20.66	386	124.0	48.7
Brown Trout	<200mm	110	120	131	110	2374	95	1200	962	85.01	1931	114.8	40.1
Brown Trout	>=200mm	27	27	28	27	534	113	270	216	100.72	434	259.6	211.2
Brown Trout	All	137	146	156	137	2888	273	1460	1170	243.58	2349	143.3	94.4

Site Number: 388

Site Midpoint (Latitude, Longitude): 44.04338453, -103.77130517

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: RB2

Date Sampled: 05/24/2018

Site Length (m): 100

Mean Width (m): 2.5

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)
Rainbow Trout	<200mm	7	7	8	7	281	12	70	114	10.66	113	100.0	42.5
Rainbow Trout	>=200mm	1	1	1	1	40	12	10	16	10.93	16	315.0	305.0
Rainbow Trout	All	8	8	9	8	321	42	80	130	37.28	129	126.9	130.0

Site Number: 388
Site Midpoint (Latitude, Longitude): 44.04338453, -103.77130517
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK0, BR2

Date Sampled: 06/13/2018
Site Length (m): 100
Mean Width (m): 5.4
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C): 9.0
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	28	28	29	28	518	13	280	210	11.43	451	118.4	24.7
Brook Trout	All	28	28	29	28	518	13	280	210	11.43	451	118.4	24.7
Brown Trout	<200mm	57	60	66	57	1109	39	600	449	34.66	965	115.2	35.0
Brown Trout	>=200mm	7	7	8	7	129	26	70	52	22.91	113	255.1	198.3
Brown Trout	All	64	67	72	64	1239	77	670	502	68.81	1078	130.5	62.2

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: 06/12/2018
Site Length (m): 100
Mean Width (m): 5.8
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C): 5.0
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	49	49	50	49	840	28	490	340	24.67	788	125.3	32.9
Brook Trout	>=200mm	28	28	28	28	480	58	280	194	52.23	451	229.0	121.9

Brook Trout	All	77	77	78	77	1319	97	770	534	86.90	1239	163.0	73.8
Brown Trout	<200mm	75	76	79	75	1302	82	760	527	72.81	1223	172.3	62.6
Brown Trout	>=200mm	90	90	92	90	1542	414	900	625	369.78	1448	278.1	268.6
Brown Trout	All	165	167	170	165	2861	509	1670	1159	454.11	2687	230.0	177.7

Site Number: 494

Site Midpoint (Latitude, Longitude): 44.02581367, -103.84107757

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: RB1

Date Sampled: 05/24/2018

Site Length (m): 100

Mean Width (m): 3.1

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)
Rainbow Trout	<200mm	3	3	4	3	98	3	30	40	2.68	48	144.3	30.7
Rainbow Trout	>=200mm	4	4	4	4	131	38	40	53	33.49	64	323.0	287.3
Rainbow Trout	All	7	7	7	7	228	41	70	93	36.17	113	246.4	177.3

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 Castle Creek, 2008-2018

Site 92

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 01, 2009	38	36-43	
	Aug 07, 2018	63	48-87	
Brown Trout >=200mm	Jul 01, 2009	5	5-5	BR2
	Aug 07, 2018	8	6-19	BR2
Rainbow Trout <200mm	Jul 01, 2009	1	1-1	
	Aug 07, 2018	1	1-2	
Rainbow Trout >=200mm	Jul 01, 2009	3	3-4	RB1

Rainbow Trout >=200mm	Aug 07, 2018	15	15-15	RB1
White Sucker	Aug 07, 2018	3	3-3	

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	
	Jun 01, 2017	55	48-67	
	Jul 11, 2018	10	10-10	
Brown Trout >=200mm	Jul 08, 2009	2	2-2	BR3
	Sep 23, 2015	11	11-12	BR2
	Jun 29, 2016	20	20-22	BR1
	Jun 01, 2017	12	12-14	BR2
Rainbow Trout >=200mm	Jun 01, 2017	2	2-2	RB2
White Sucker	Jun 29, 2016	6	6-7	
	Jun 01, 2017	5	5-6	

White Sucker

Jul 11, 2018

3

3-3

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	
	Jun 01, 2017	65	59-74	
	Jul 11, 2018	30	30-32	
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
	Jun 01, 2017	20	20-22	BR1
	Jul 11, 2018	13	13-14	BR2
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
	Jun 01, 2017	1	1-1

Site 239

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 12, 2018	20	17-29	
Brook Trout >=200mm	Jun 12, 2018	3	3-4	BK3
Brown Trout <200mm	Jul 10, 2009	33	33-35	
	Jun 25, 2012	44	36-59	
	Jun 12, 2018	53	45-66	
Brown Trout >=200mm	Jul 10, 2009	1	1-1	BR3
	Jun 25, 2012	4	4-5	BR2
	Jun 12, 2018	11	11-12	BR2
Rainbow Trout >=200mm	Jun 25, 2012	2	2-3	RB2

Site 249

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 07, 2009	36	36-38	
	Aug 07, 2018	20	20-22	
Brown Trout >=200mm	Jul 07, 2009	7	7-7	BR2
	Aug 07, 2018	6	6-7	BR2
Rainbow Trout >=200mm	Jul 07, 2009	1	1-1	RB2
White Sucker	Jul 07, 2009	2	2-2	

Site 361

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 30, 2009	50	39-70	
	Jun 12, 2012	62	41-102	
	May 17, 2017	6	6-9	
	Jun 13, 2018	12	9-25	
Brook Trout >=200mm	Jun 30, 2009	5	5-6	BK2
	Jun 12, 2012	3	3-5	BK2
Brown Trout <200mm	Jun 30, 2009	21	20-25	

Brown Trout <200mm	Jun 12, 2012	43	31-68	
	May 17, 2017	43	43-45	
	Jun 13, 2018	42	32-62	
Brown Trout >=200mm	Jun 30, 2009	12	12-12	BR2
	Jun 12, 2012	21	21-23	BR1
	May 17, 2017	29	29-29	BR1
	Jun 13, 2018	15	15-15	BR2

Site 373

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	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	
	Jun 06, 2017	8	8-9	
	Jun 13, 2018	10	10-11	

Brook Trout >=200mm	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
	Jun 06, 2017	2	2-2	BK3
	Jun 13, 2018	2	2-3	BK3
Brown Trout <200mm	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	
	Jun 06, 2017	37	37-38	
	Jun 13, 2018	23	23-25	
Brown Trout >=200mm	Sep 23, 2008	13	13-14	BR2
	Aug 15, 2012	23	23-24	BR1

Brown Trout >=200mm	May 17, 2013	20	20-21	BR2
	May 23, 2014	18	18-19	BR2
	Jun 23, 2016	31	31-32	BR1
	Jun 06, 2017	8	8-9	BR2
	Jun 13, 2018	16	16-17	BR2

Site 379

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 23, 2008	5	5-5	
	Jun 25, 2014	15	13-22	
	Jun 23, 2016	21	21-22	
	Jun 12, 2018	30	26-39	
	Jun 13, 2018	11	11-11	
Brook Trout >=200mm	Sep 23, 2008	5	5-5	BK2
	Jun 25, 2014	1	1-1	BK3
	Jun 23, 2016	4	4-5	BK2
Brown Trout <200mm	Sep 23, 2008	12	12-14	

Brown Trout <200mm	Jun 25, 2014	20	20-21	
	Jun 23, 2016	13	13-14	
	Jun 12, 2018	76	74-80	
	Jun 13, 2018	26	26-28	
Brown Trout >=200mm	Sep 23, 2008	10	10-10	BR2
	Jun 25, 2014	11	11-13	BR2
	Jun 23, 2016	10	10-10	BR2
	Jun 12, 2018	41	41-43	BR1
	Jun 13, 2018	8	8-8	BR2

Site 384

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 27, 2014	35	34-39	
	May 17, 2016	28	28-30	
	Jun 06, 2017	19	19-21	
	Jun 13, 2018	21	21-23	
Brook Trout >=200mm	May 27, 2014	17	16-21	BK2

Brook Trout >=200mm	May 17, 2016	14	14-15	BK2
	Jun 06, 2017	20	19-24	BK1
	Jun 13, 2018	3	3-3	BK3
Brown Trout <200mm	May 27, 2014	72	41-136	
	May 17, 2016	60	53-71	
	Jun 06, 2017	54	51-60	
	Jun 13, 2018	120	110-131	
Brown Trout >=200mm	May 27, 2014	51	33-88	BR1
	May 17, 2016	102	100-106	BR1
	Jun 06, 2017	107	104-112	BR1
	Jun 13, 2018	27	27-28	BR1

Site 388

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 27, 2014	23	23-24	
	May 17, 2016	36	35-39	
	May 17, 2017	25	25-27	

Brook Trout <200mm	Jun 22, 2017	112	111-115	
	Jun 13, 2018	28	28-29	
Brook Trout >=200mm	May 27, 2014	5	5-7	BK2
	May 17, 2016	5	5-5	BK2
	May 17, 2017	2	2-6	BK3
	Jun 22, 2017	4	4-4	BK2
Brown Trout <200mm	May 27, 2014	29	29-30	
	May 17, 2016	65	61-72	
	May 17, 2017	131	121-142	
	Jun 13, 2018	60	57-66	
Brown Trout >=200mm	May 27, 2014	18	18-19	BR2
	May 17, 2016	24	24-24	BR1
	May 17, 2017	13	13-13	BR2
	Jun 13, 2018	7	7-8	BR2
Rainbow Trout <200mm	Jun 22, 2017	4	4-5	
	May 24, 2018	7	7-8	

Rainbow Trout >=200mm

May 24, 2018

1

1-1

RB2

Site 417

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	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	
	May 17, 2017	110	105-117	
	Jun 22, 2017	50	49-53	
	Jun 12, 2018	49	49-50	
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

Brook Trout >=200mm	May 19, 2014	83	79-89	BK1
	May 17, 2016	101	101-103	BK1
	May 17, 2017	117	117-119	BK1
	Jun 22, 2017	1	1-1	BK3
	Jun 12, 2018	28	28-28	BK1
Brown Trout <200mm	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	
	May 17, 2017	72	70-77	
	Jun 12, 2018	76	75-79	
Brown Trout >=200mm	Jun 18, 2009	16	16-17	BR2
	Jun 08, 2012	30	29-33	BR1
	May 16, 2013	46	46-48	BR1

Brown Trout >=200mm	May 19, 2014	25	23-31	BR1
	May 19, 2014	26	23-34	BR1
	May 17, 2016	88	88-89	BR1
	May 17, 2017	101	100-104	BR1
	Jun 12, 2018	90	90-92	BR1
Rainbow Trout <200mm	Jun 22, 2017	6	5-13	
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 494

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 21, 2017	119	111-129	
Brook Trout >=200mm	Jun 21, 2017	7	7-7	BK2
Rainbow Trout <200mm	Jun 21, 2017	2	2-2	
	May 24, 2018	3	3-4	

Rainbow Trout >=200mm

Jun 21, 2017

1

1-1

RB2

May 24, 2018

4

4-4

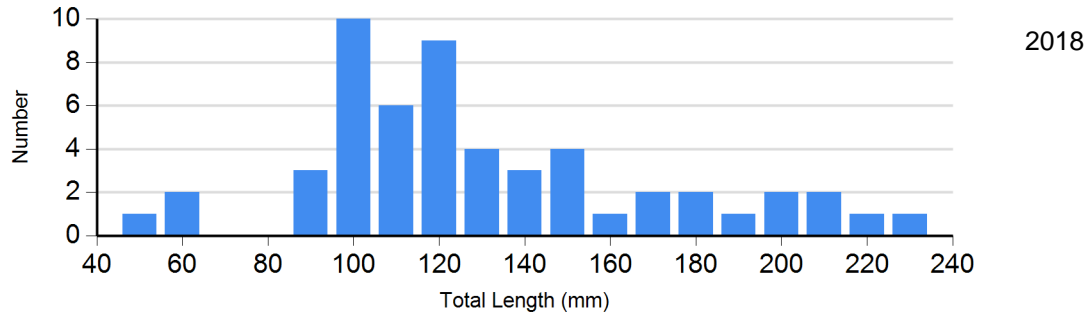
RB1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

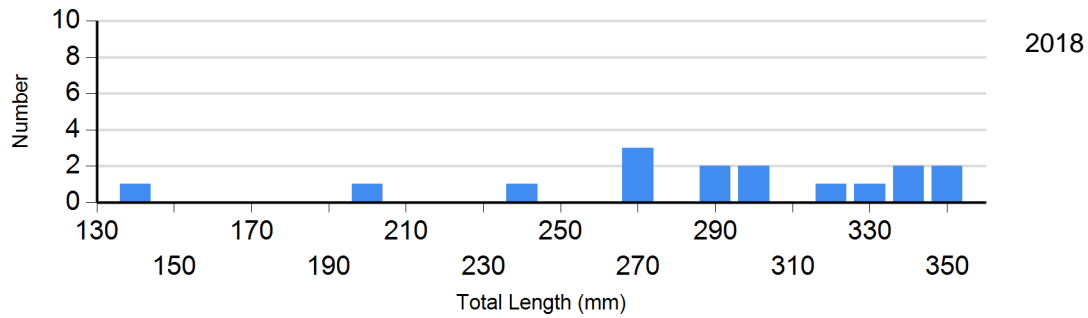
Site: 92

Species: Brown Trout



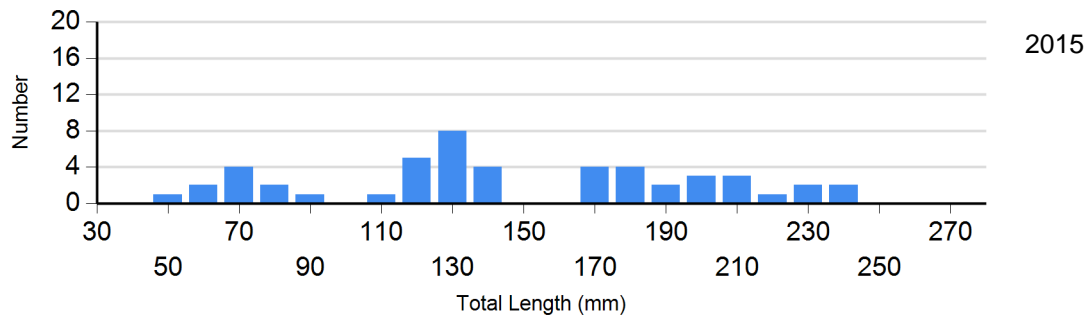
Site: 92

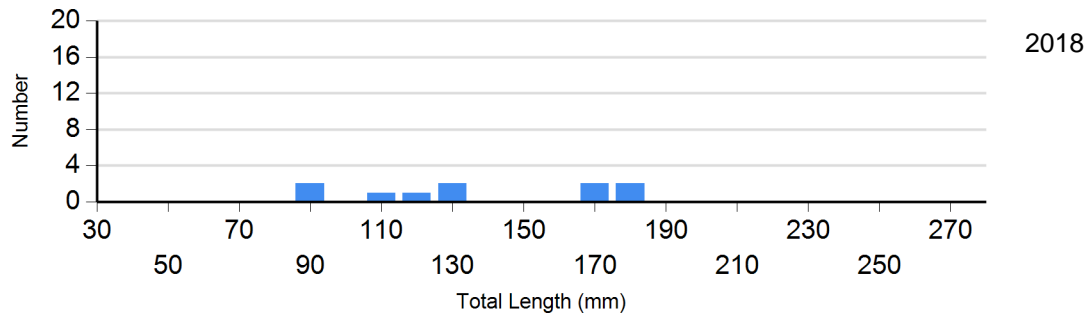
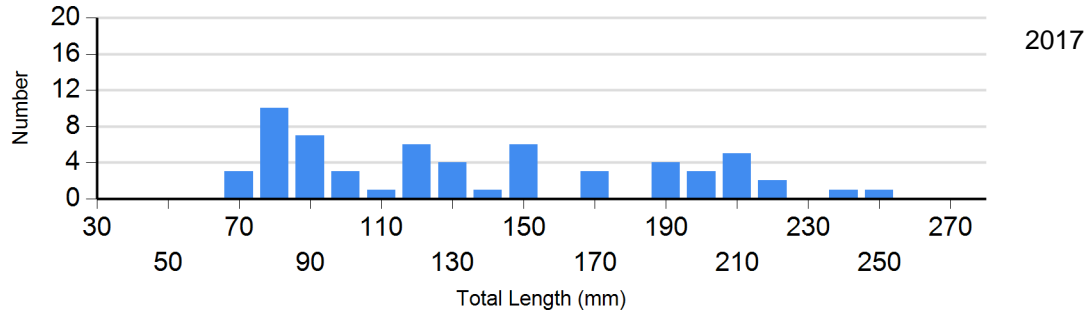
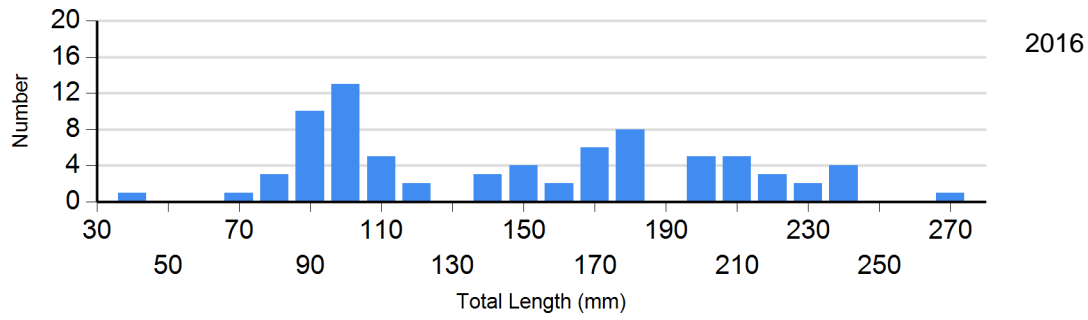
Species: Rainbow Trout



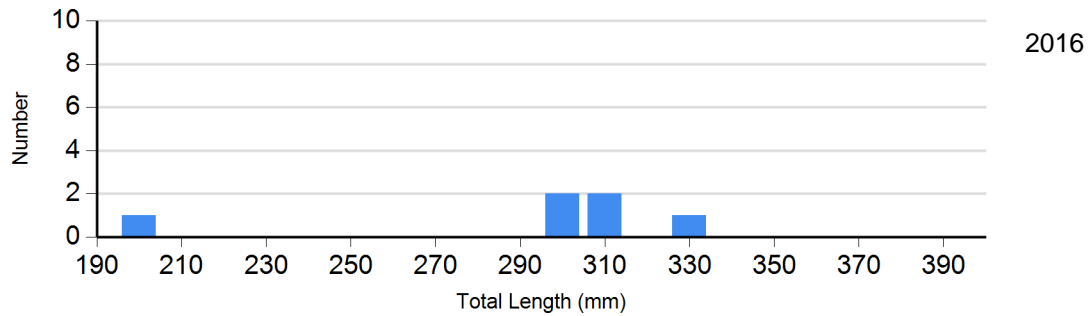
Site: 181

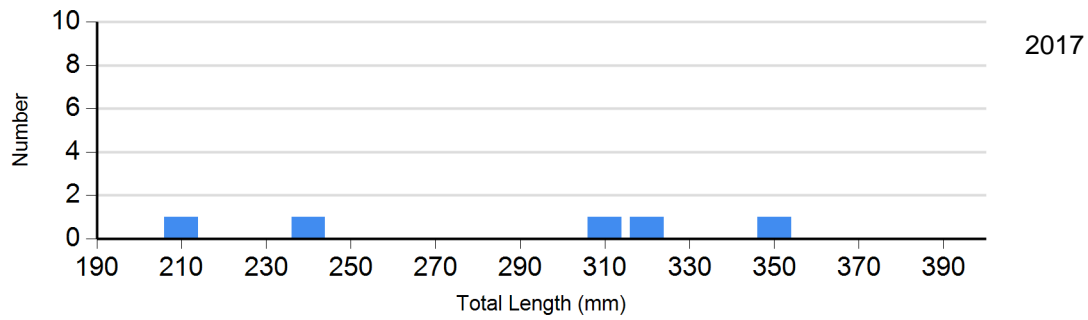
Species: Brown Trout



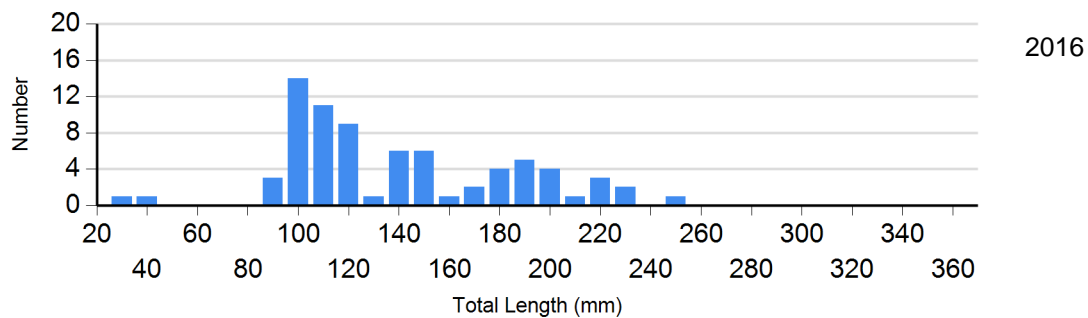
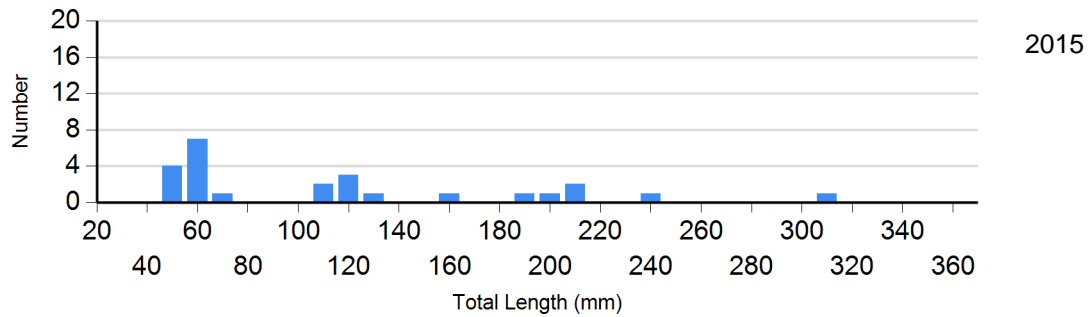
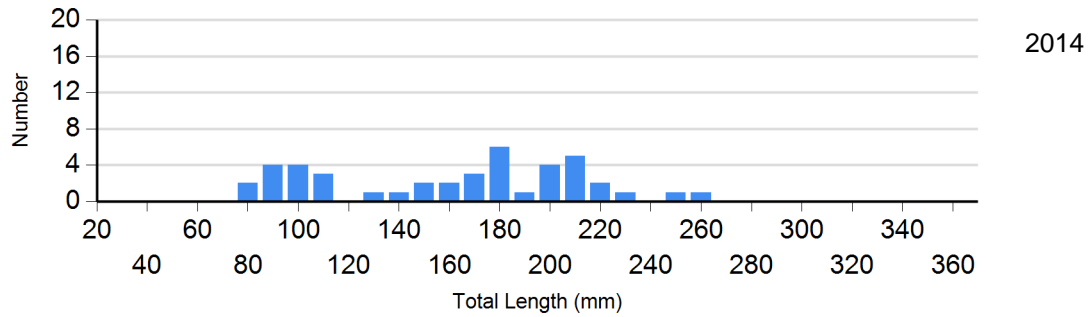


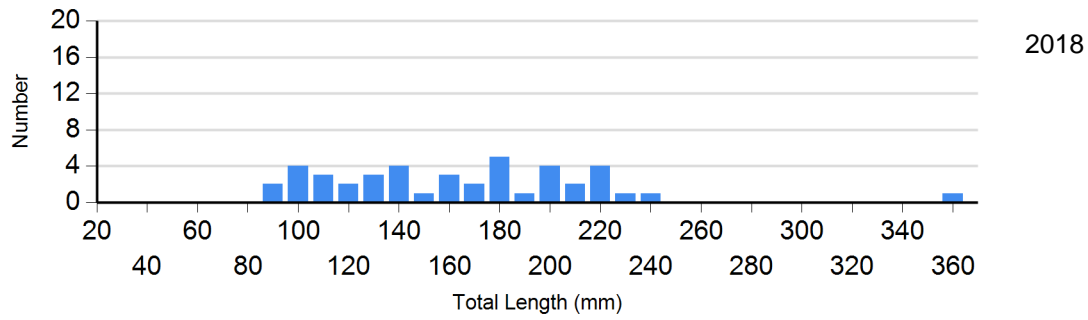
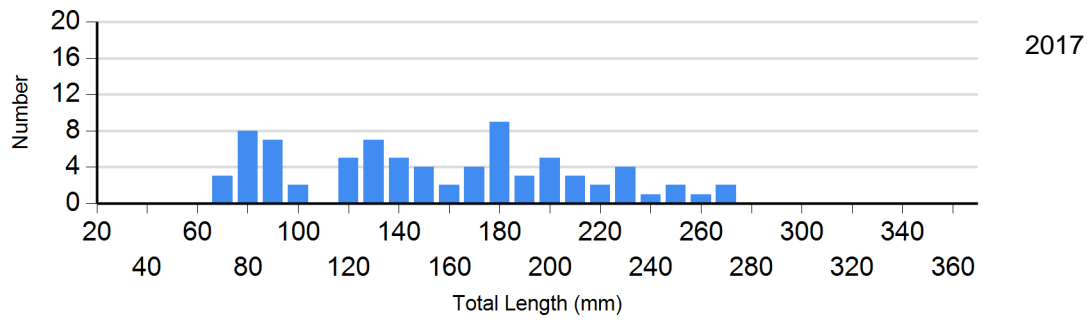
Site: 181
Species: White Sucker



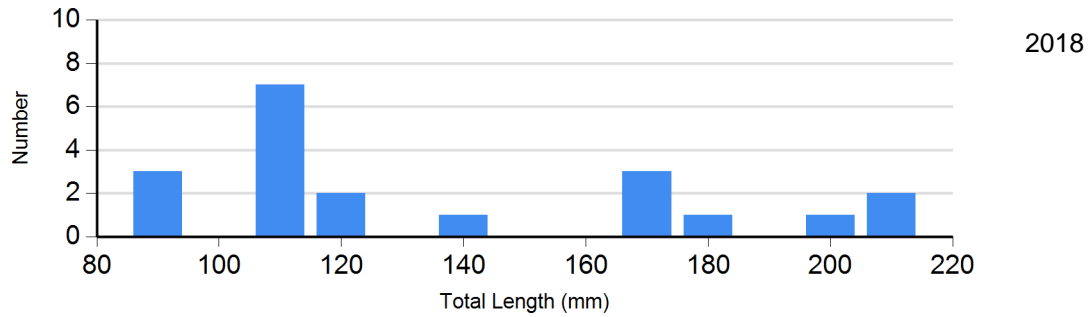


Site: 213
Species: Brown Trout

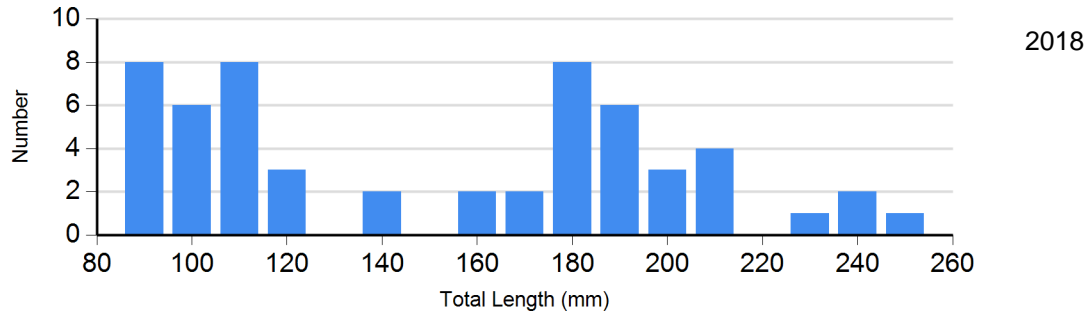




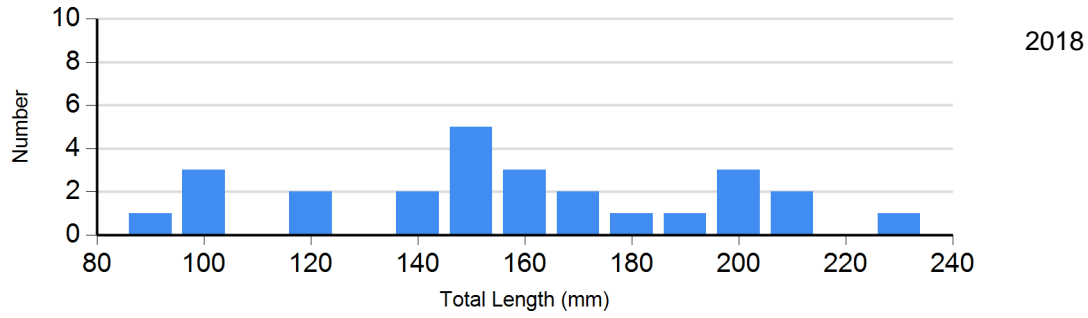
Site: 239
Species: Brook Trout



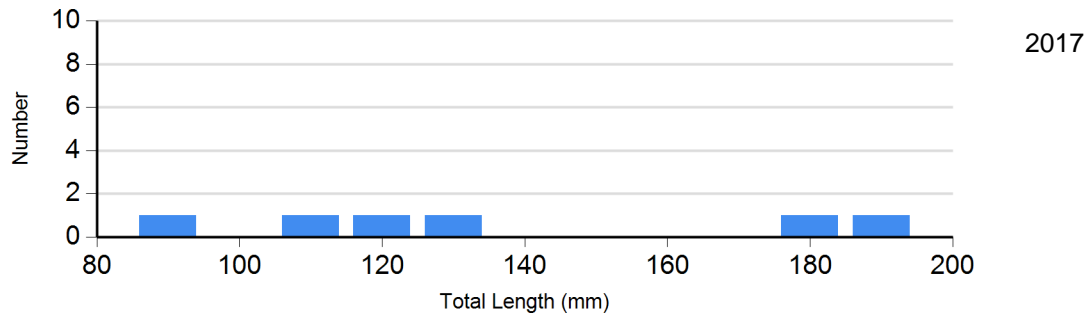
Site: 239
Species: Brown Trout

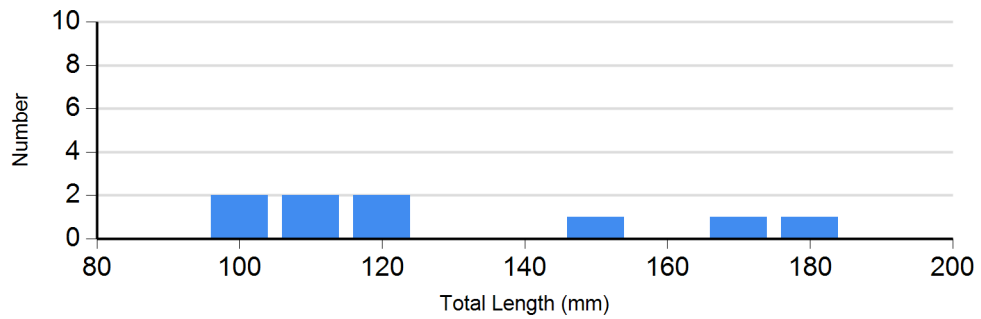


Site: 249
Species: Brown Trout



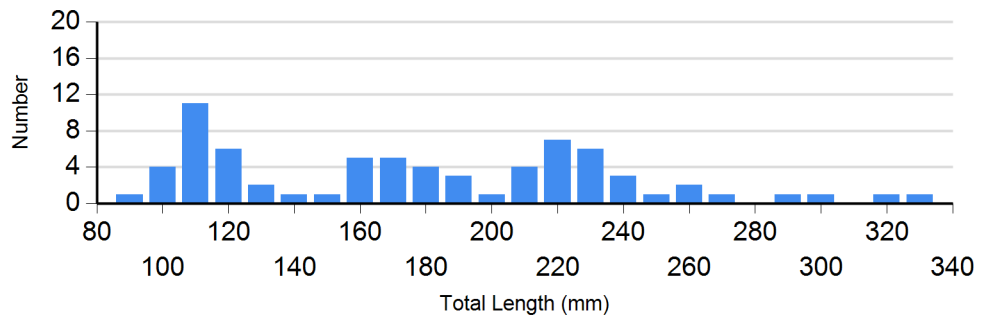
Site: 361
Species: Brook Trout



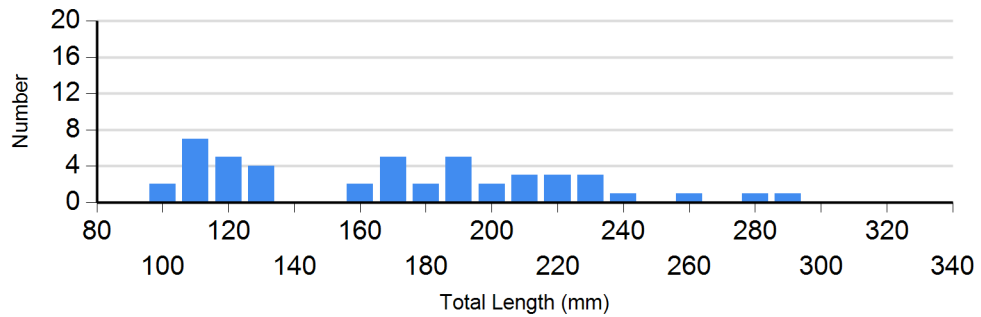


2018

Site: 361
Species: Brown Trout

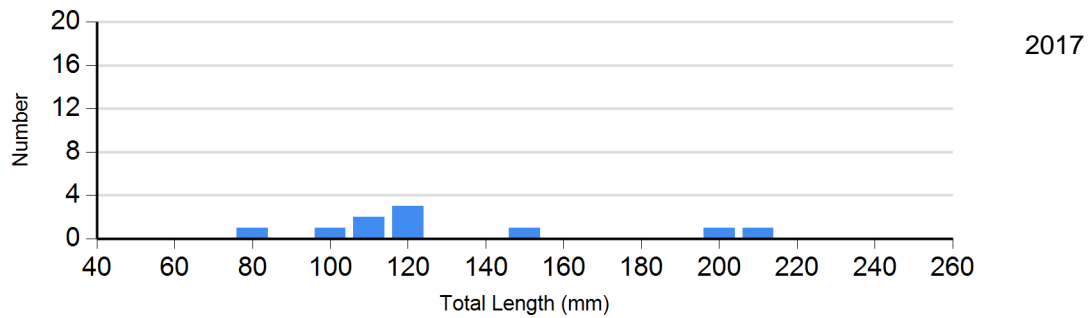
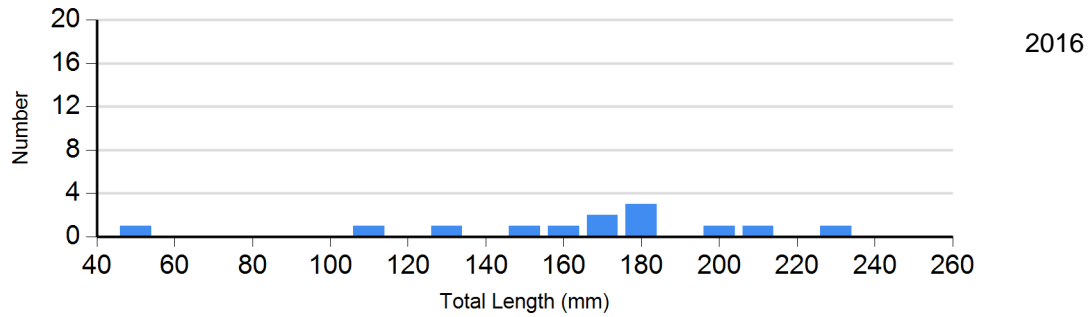
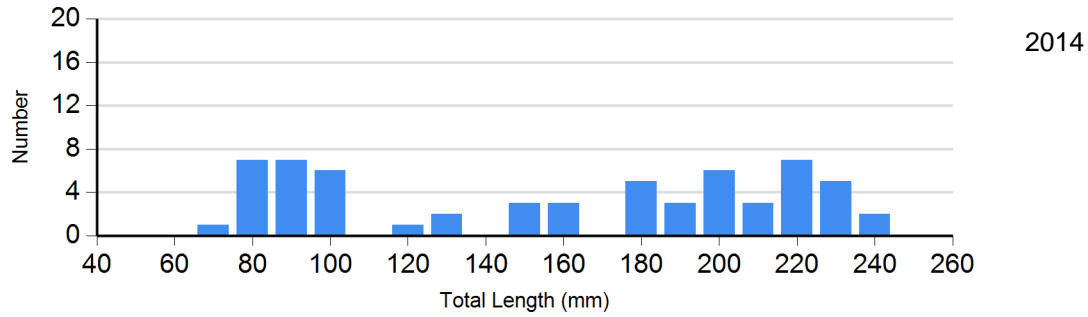
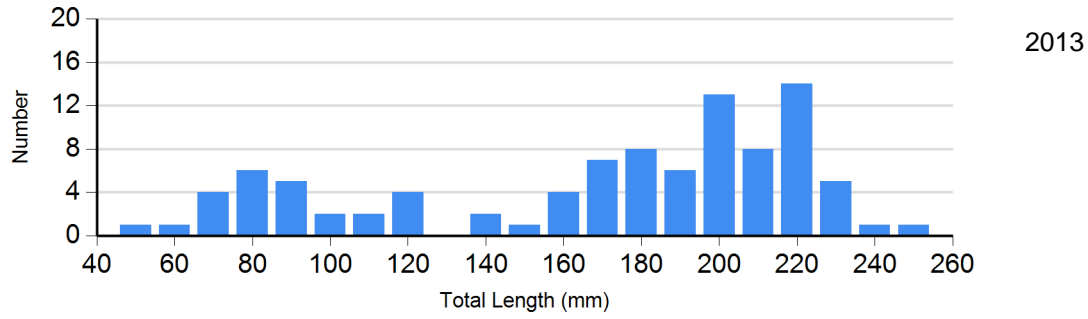


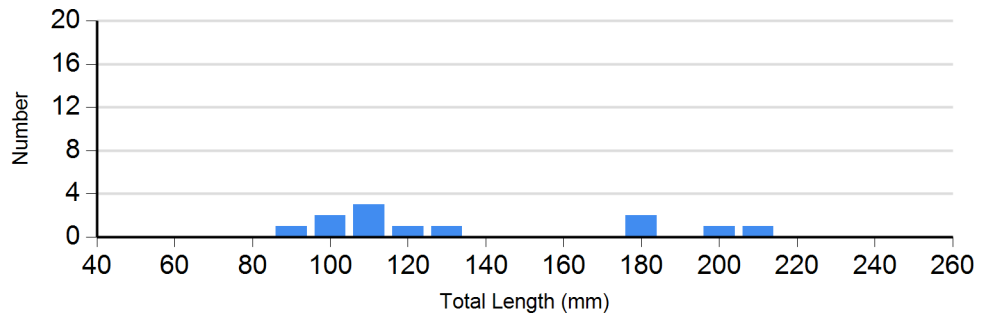
2017



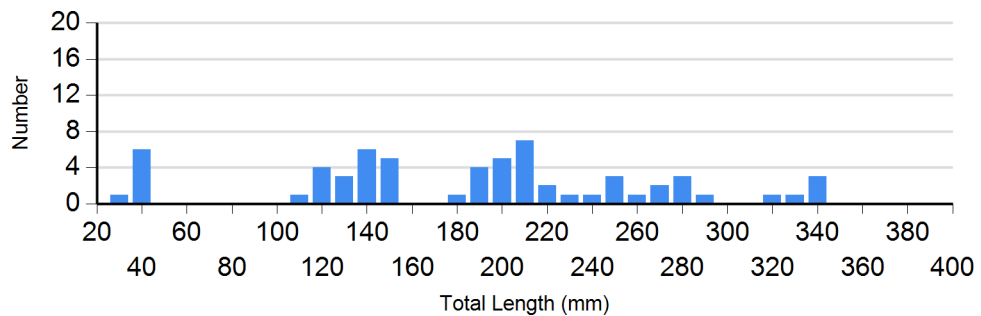
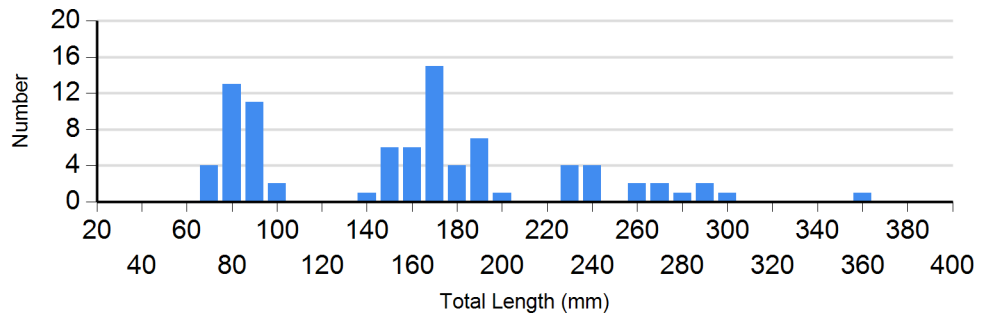
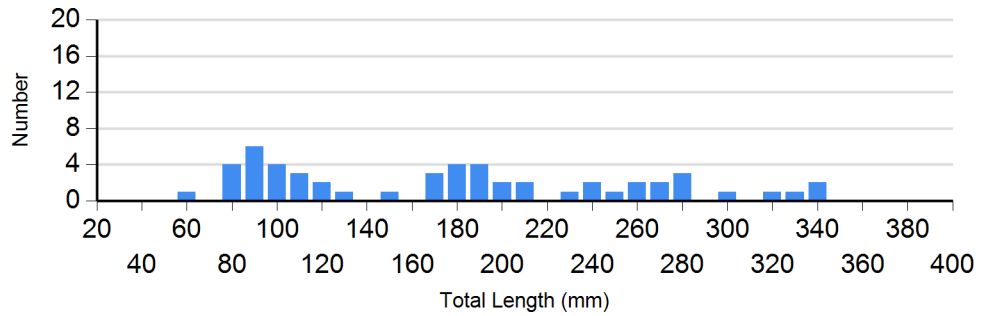
2018

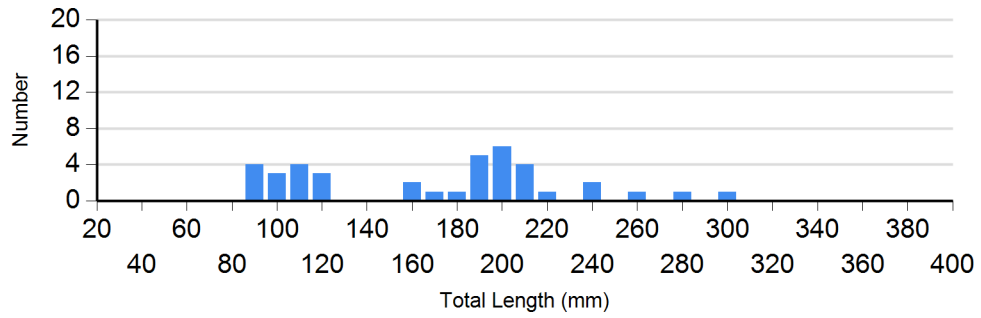
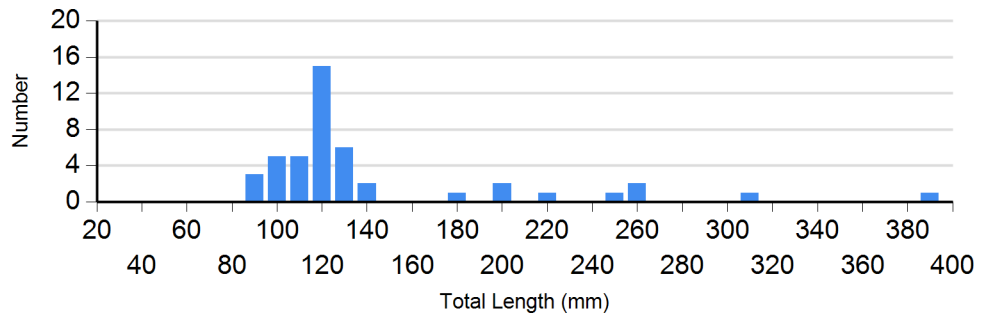
Site: 373
Species: Brook Trout



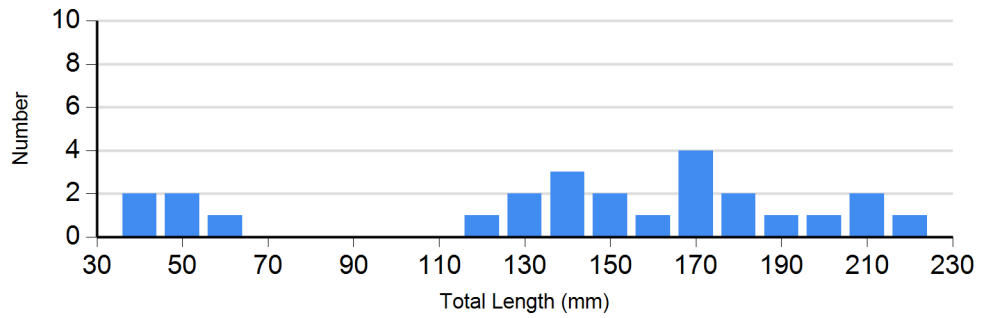
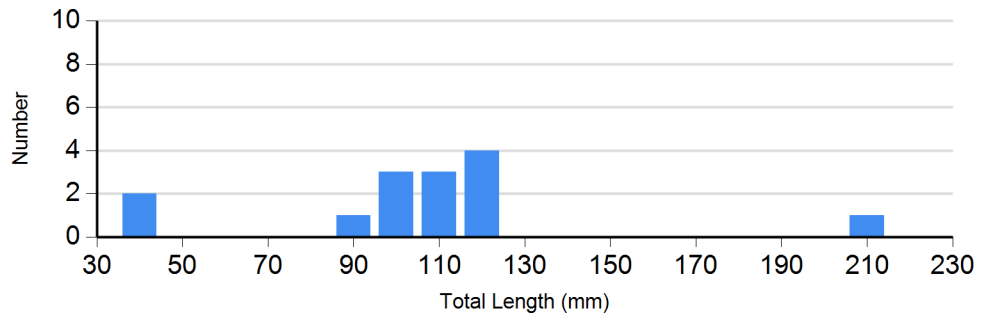


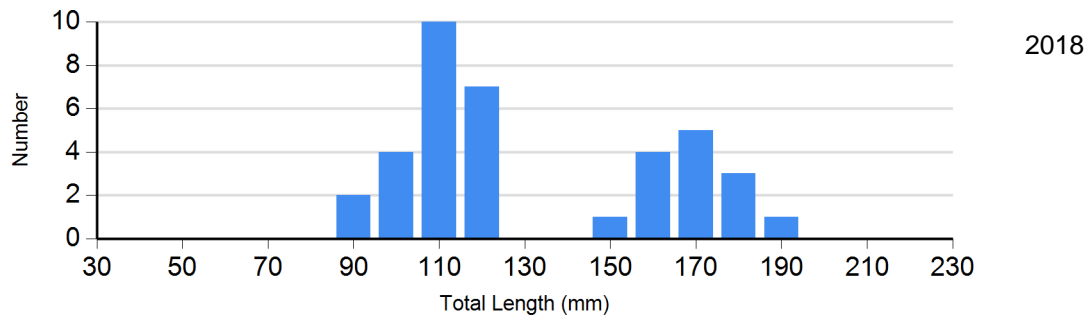
Site: 373
Species: Brown Trout



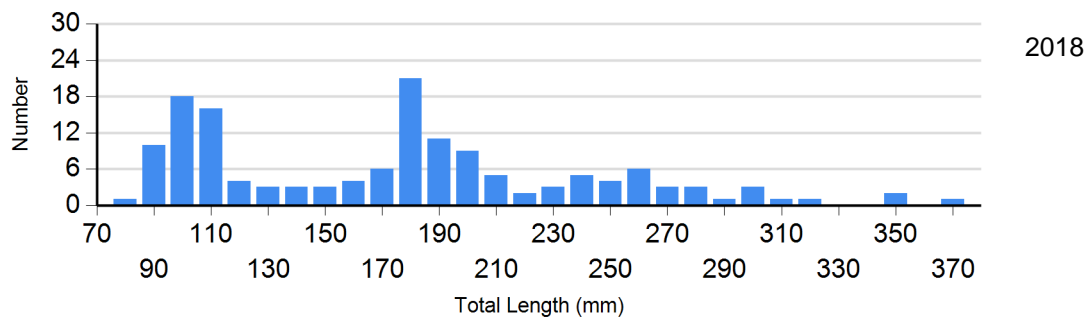
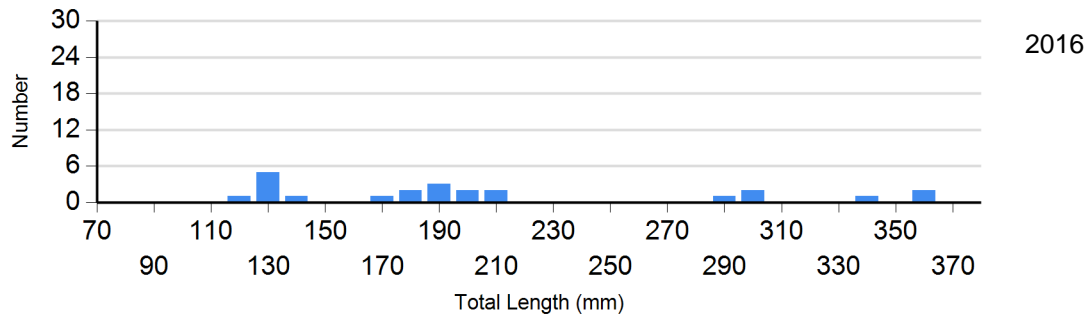
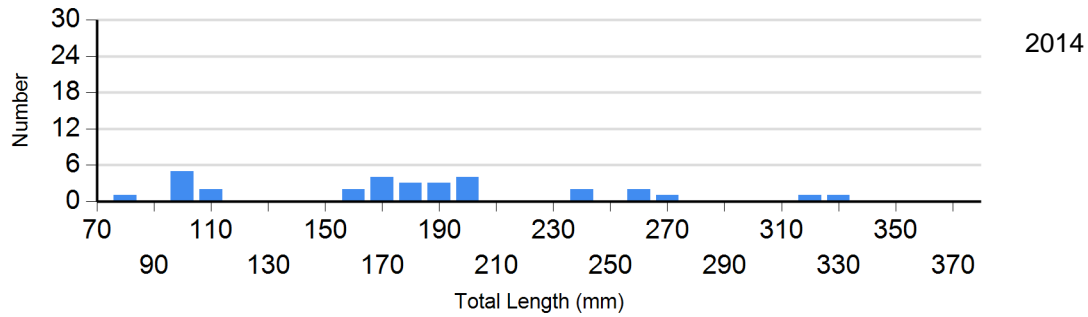


Site: 379
Species: Brook Trout

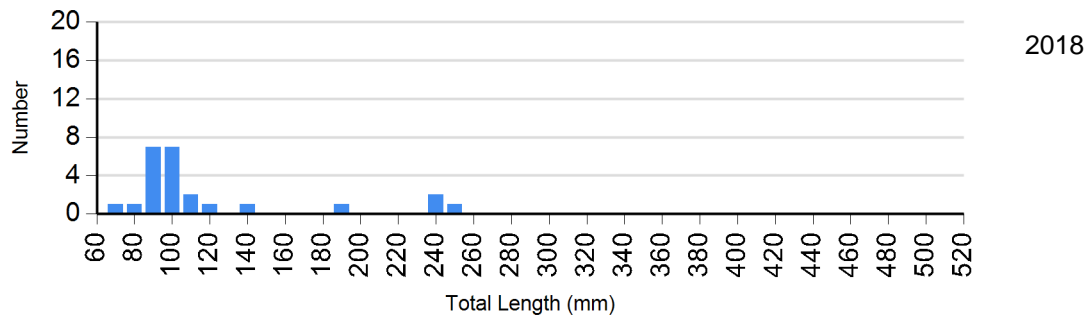
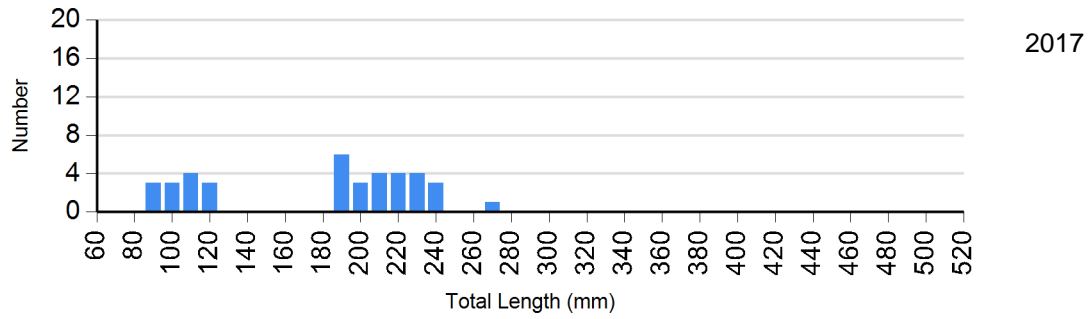
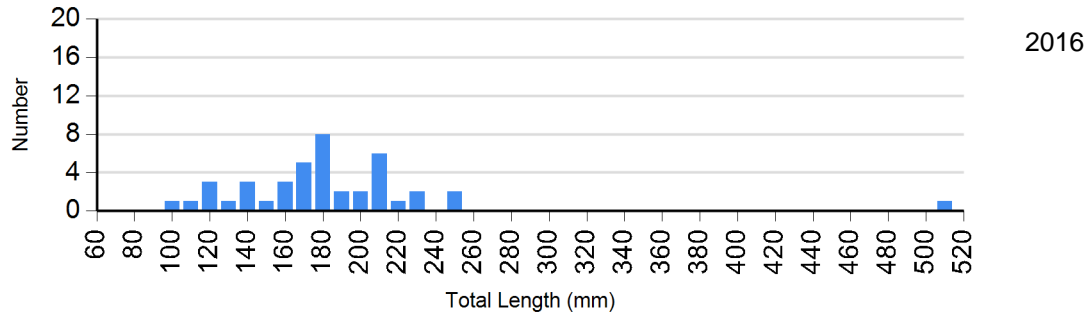
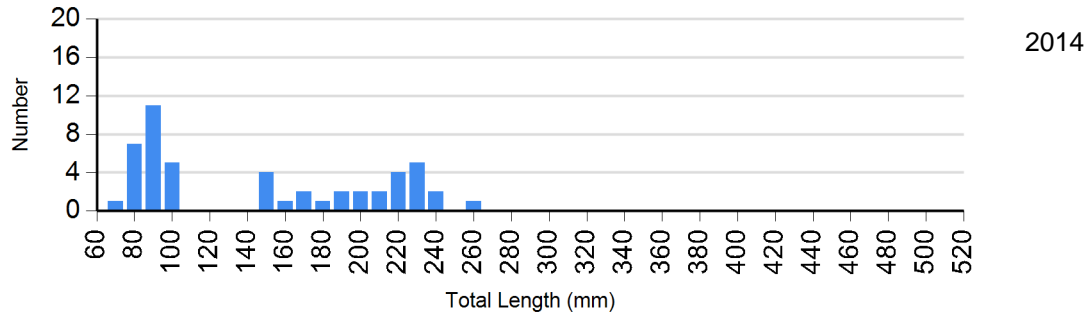




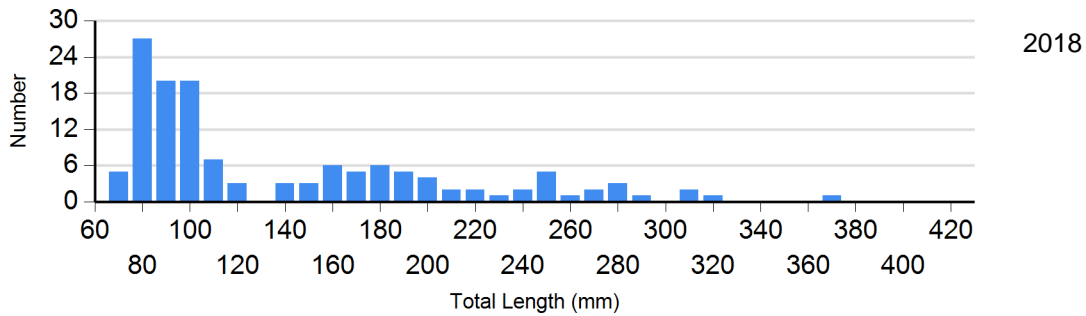
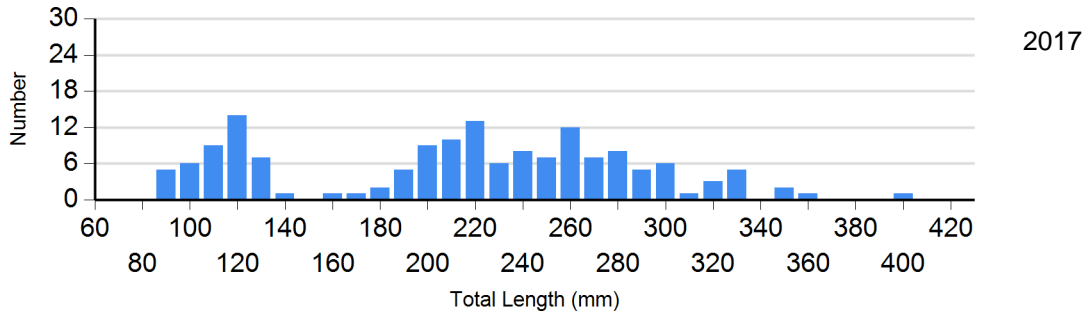
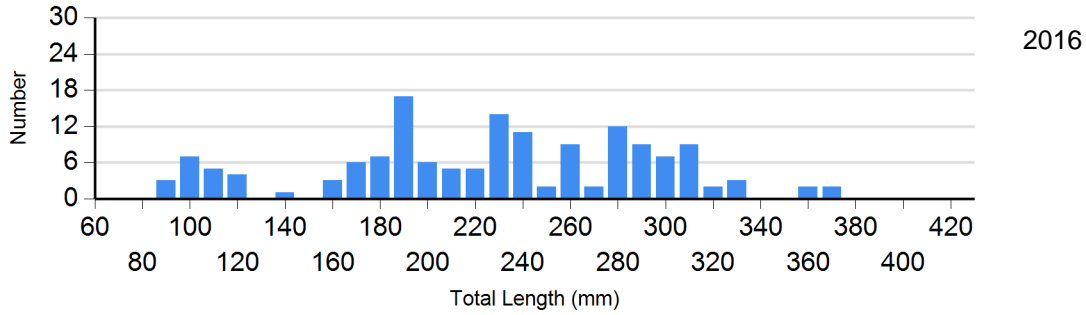
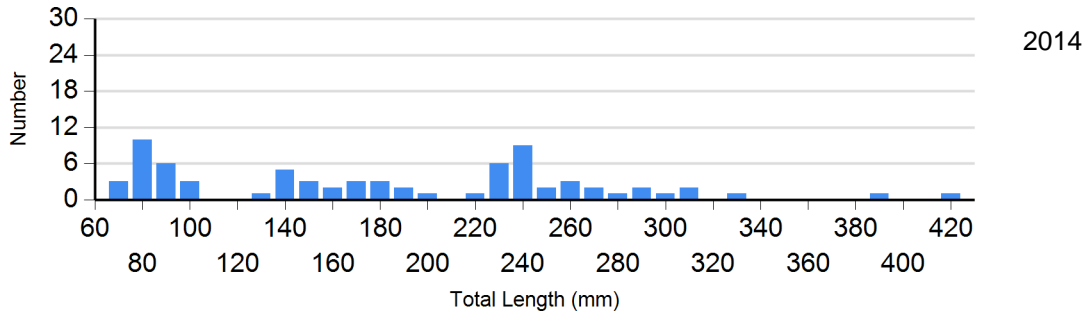
Site: 379
Species: Brown Trout



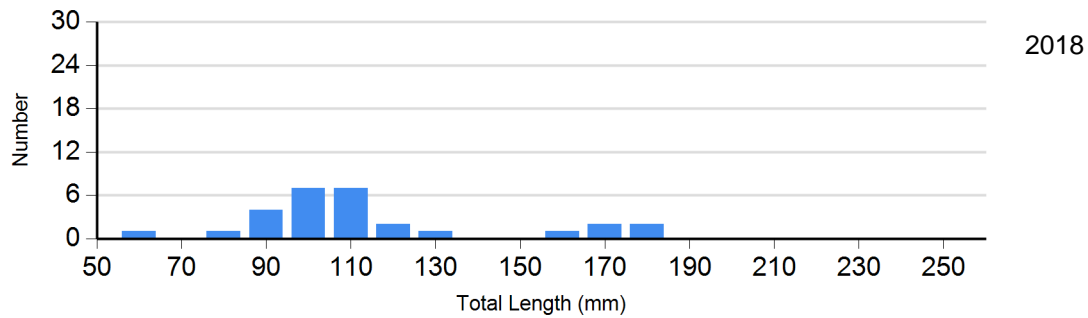
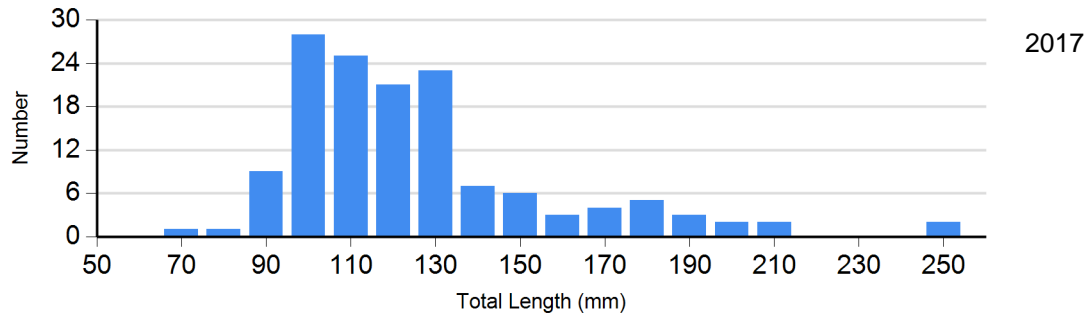
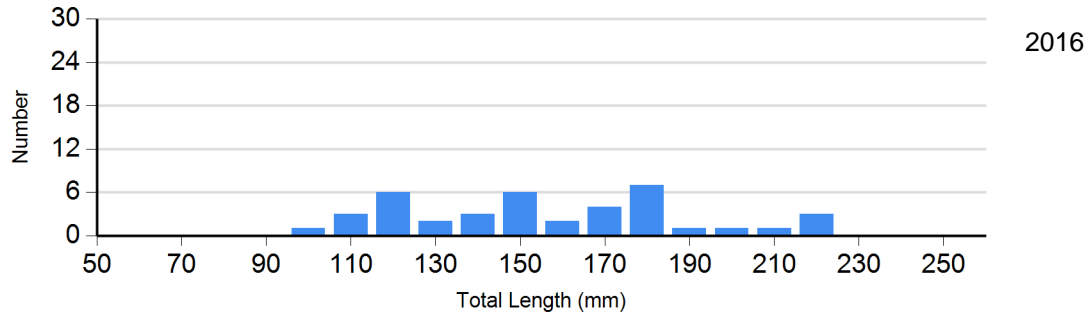
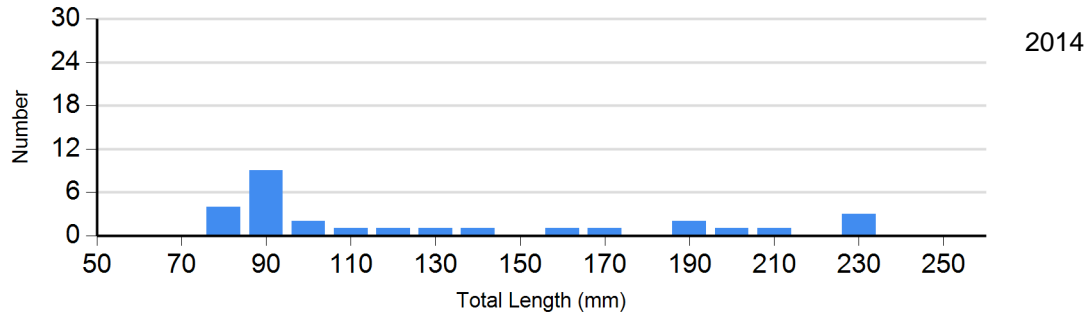
Site: 384
Species: Brook Trout



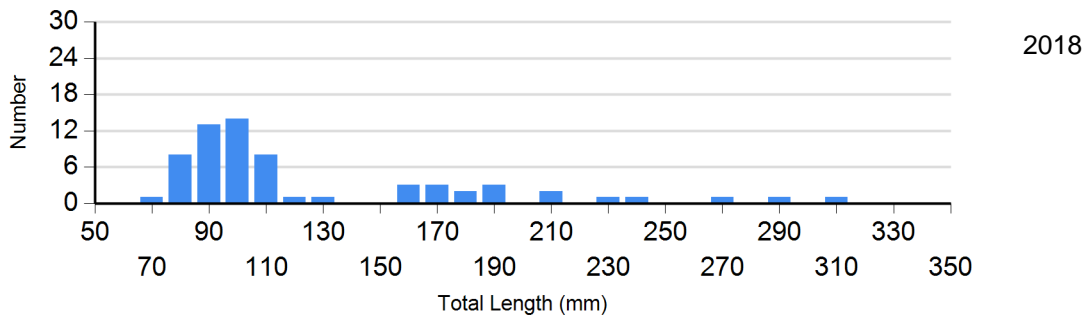
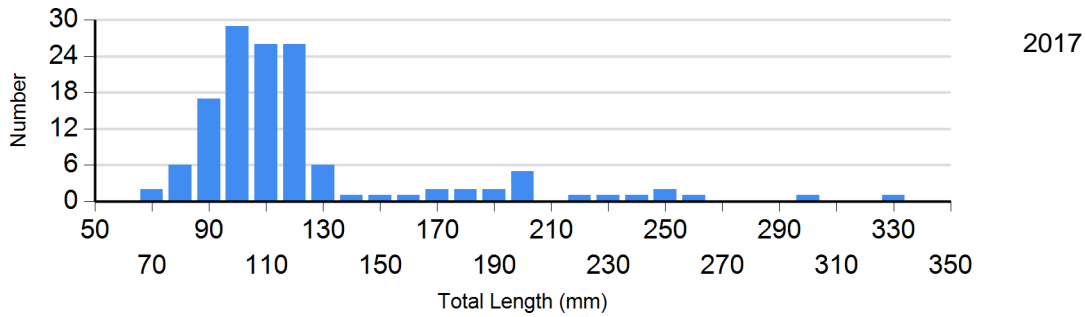
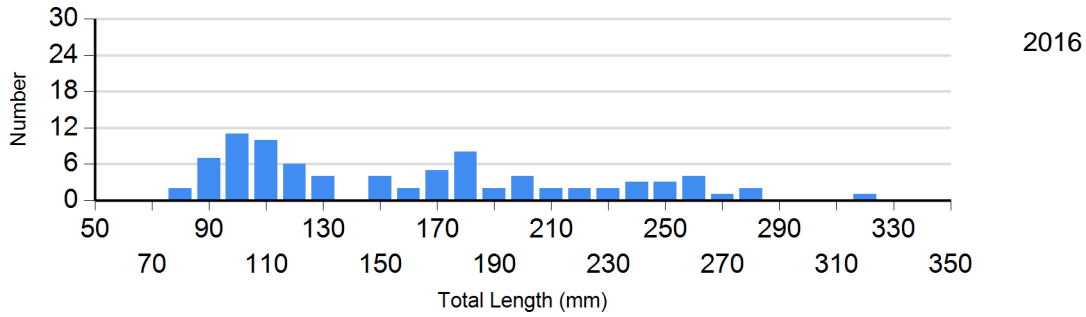
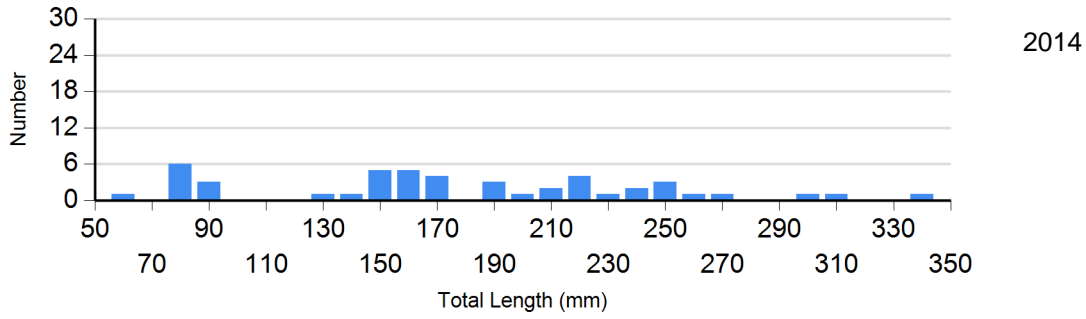
Site: 384
Species: Brown Trout



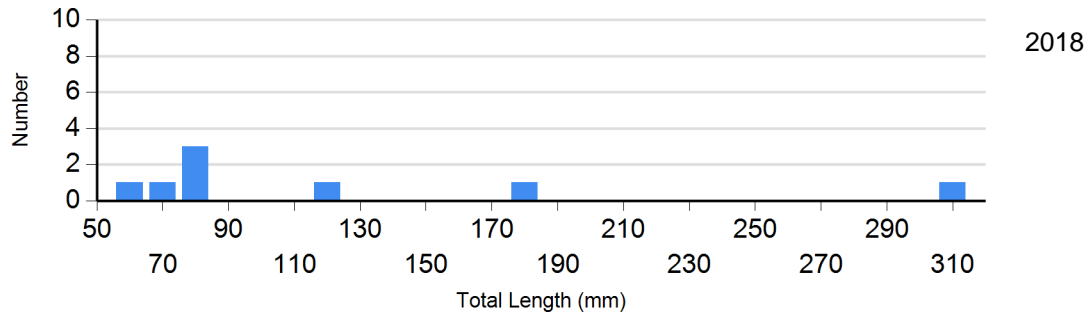
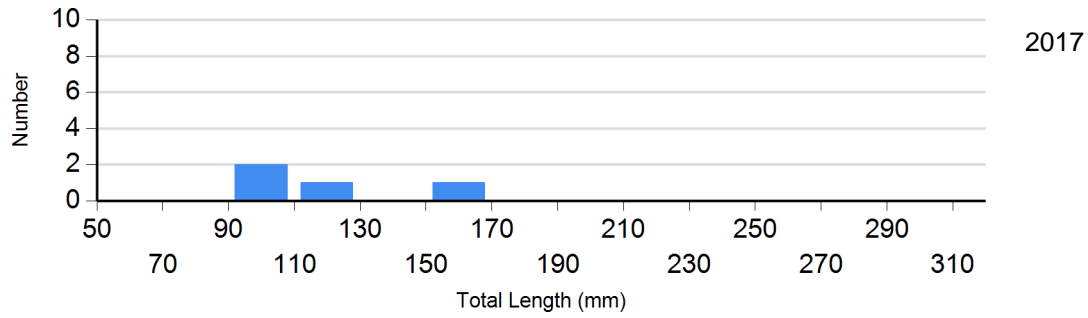
Site: 388
Species: Brook Trout



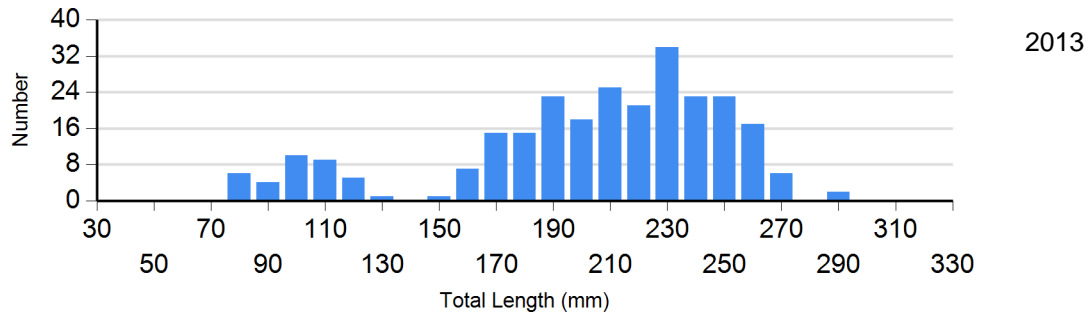
Site: 388
Species: Brown Trout

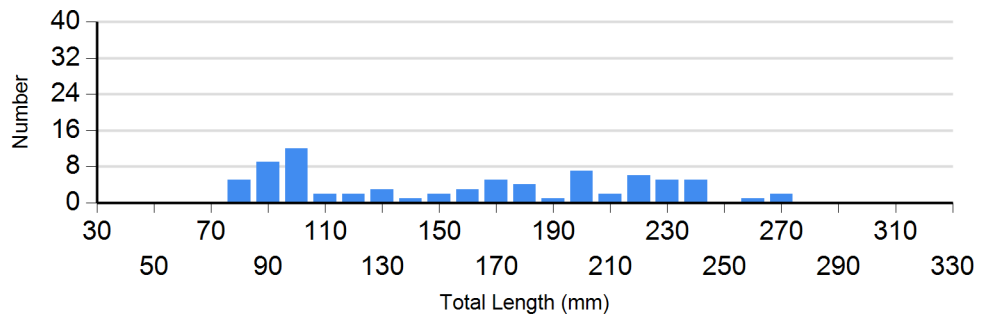
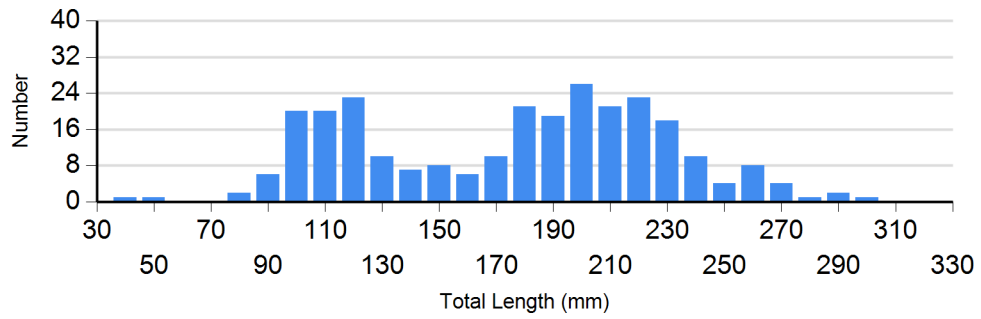
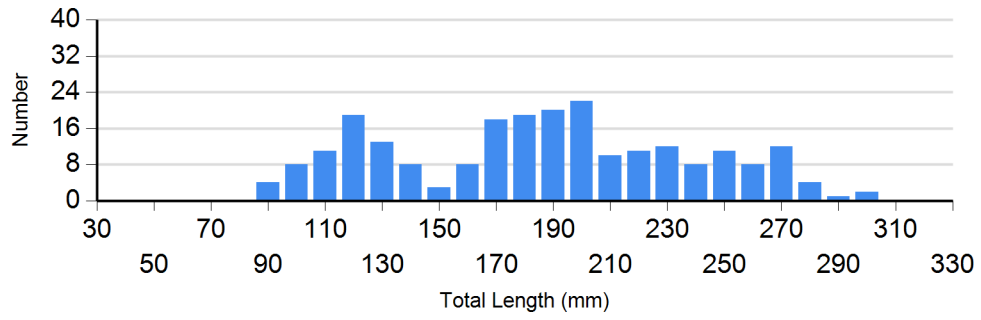
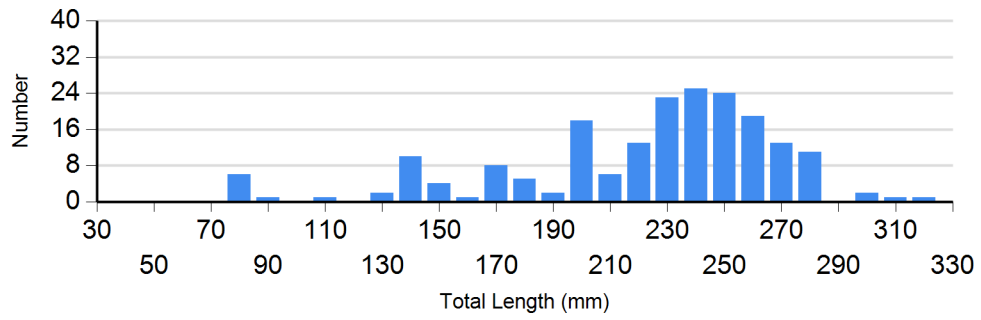


Site: 388
Species: Rainbow Trout

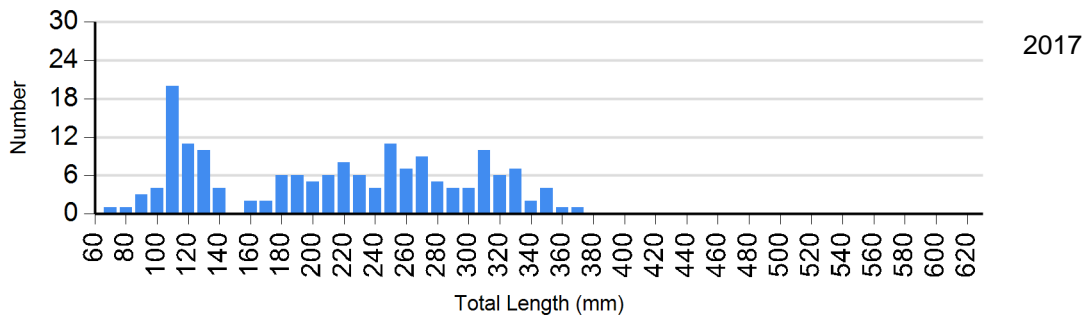
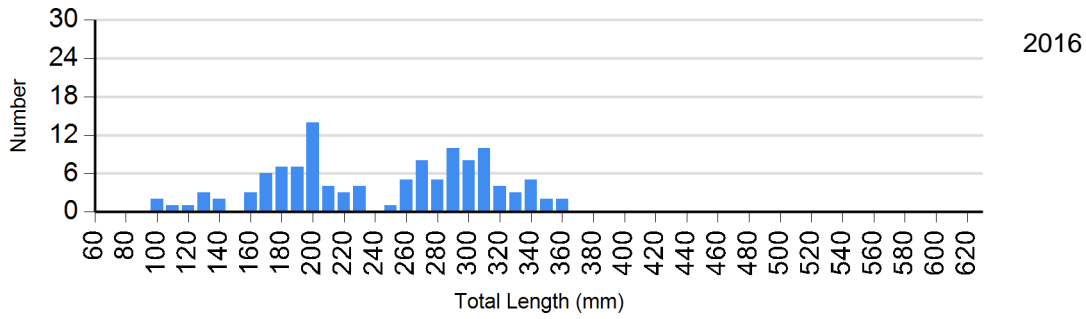
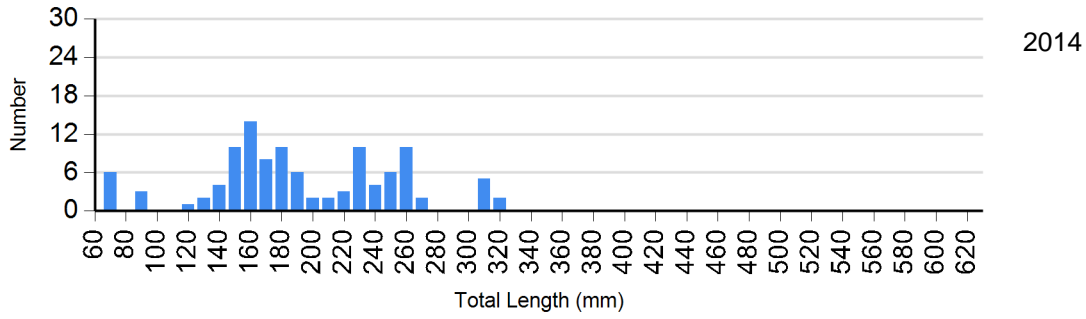
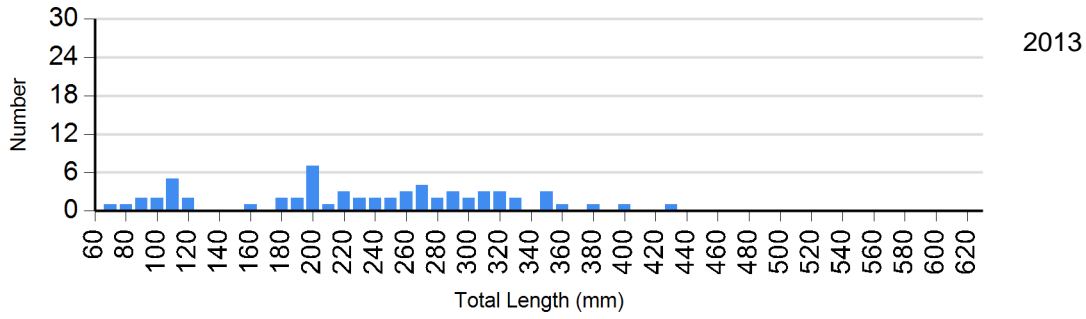


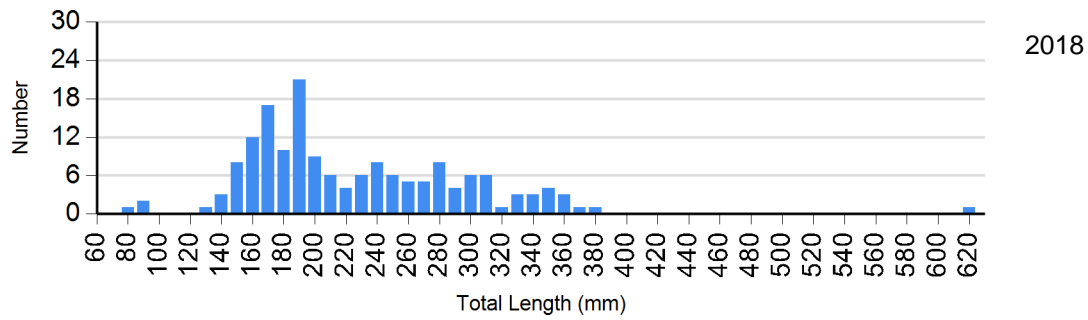
Site: 417
Species: Brook Trout



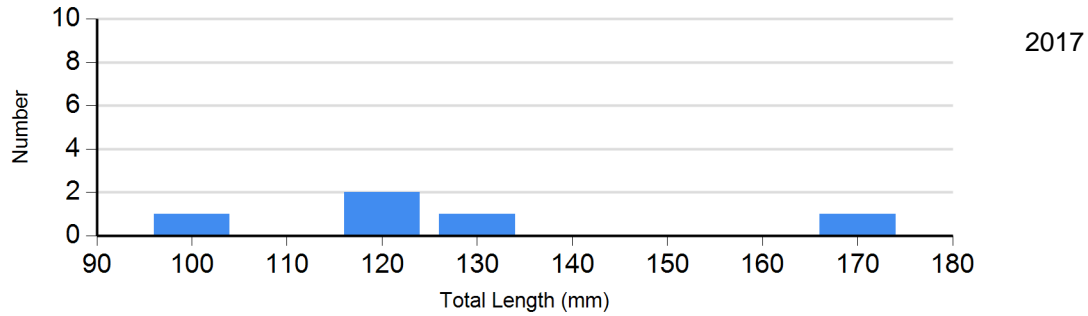


Site: 417
Species: Brown Trout

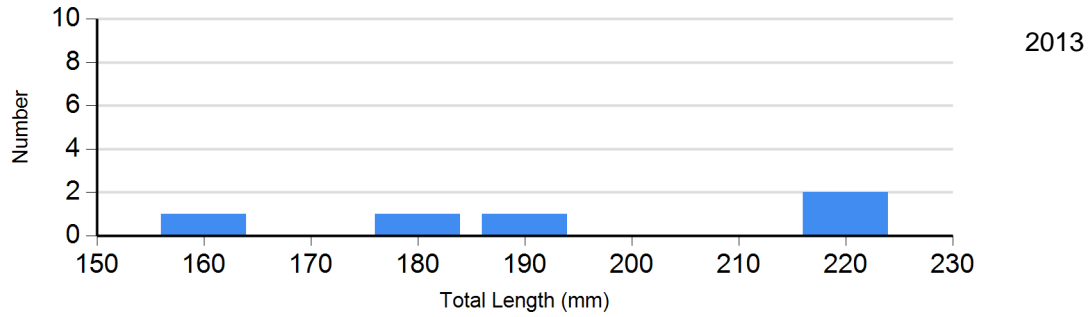




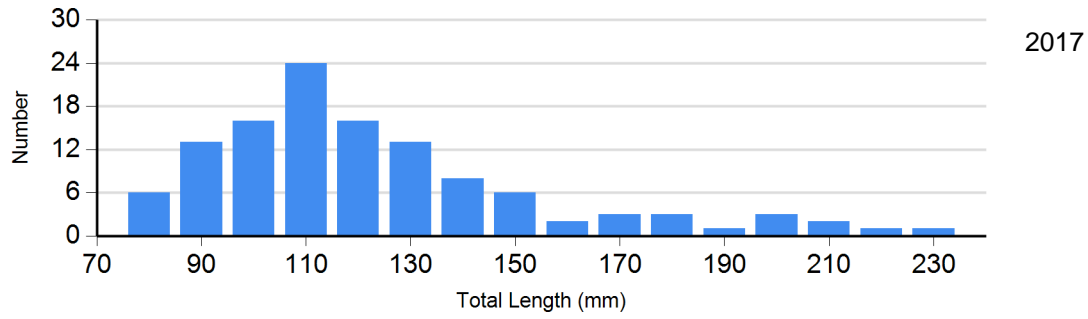
Site: 417
Species: Rainbow Trout



Site: 417
Species: White Sucker



Site: 494
Species: Brook Trout



Site: 494
Species: Rainbow Trout

