

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Spearfish Creek, Lawrence County
09-0021-00
2016

Table 1. Population and Biomass Estimates for Spearfish Creek

Site Number: 24	Date Sampled: 07/14/2016	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.59058544, -103.88691684	Site Length (m): 100	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 6.7	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	70	70	72	70	1045	77	700	423	68.38	1126	88.6	73.3
Brown Trout	>=200mm	24	24	25	24	358	85	240	145	75.48	386	270.7	236.0
Brown Trout	All	94	95	98	94	1418	267	950	574	238.20	1529	135.1	188.1

Site Number: 165	Date Sampled: 06/21/2016	Conductivity (umhos/cm): 230
Site Midpoint (Latitude, Longitude): 44.50833116, -103.86577107	Site Length (m): 100	pH: 7.1
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 8.5	Water Temperature (C):
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	29	36	51	29	426	32	360	172	28.24	579	97.6	74.3
Brown Trout	>=200mm	66	71	79	66	840	219	710	340	195.81	1142	279.0	261.1
Brown Trout	All	95	107	121	95	1266	297	1070	513	264.92	1722	223.6	234.4

Site Number: 165	Date Sampled: 07/12/2016	Conductivity (umhos/cm): 205
Site Midpoint (Latitude, Longitude): 44.50833116, -103.86577107	Site Length (m): 100	pH: 7.4

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 8.5

Water Temperature (C): 14.0

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	27	30	37	27	353	22	300	143	20.06	483	139.2	63.7
Brown Trout	>=200mm	102	107	114	102	1259	297	1070	510	265.57	1722	270.1	236.3
Brown Trout	All	129	137	146	129	1612	335	1370	653	299.30	2204	242.7	208.0

Site Number: 174

Date Sampled: 07/11/2016

Conductivity (umhos/cm): 215

Site Midpoint (Latitude, Longitude): 44.50196266, -103.86743501

Site Length (m): 100

pH: 7.8

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 7.0

Water Temperature (C): 13.8

Stream Classification: BR1

Number of Pass: 3

Voltage: 250

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	14	14	16	14	199	8	140	80	7.49	225	151.2	42.2
Brown Trout	>=200mm	98	118	140	98	1675	468	1180	678	417.59	1899	293.6	279.2
Brown Trout	All	112	131	151	112	1859	468	1310	753	417.51	2108	275.8	251.5

Site Number: 180

Date Sampled: 07/11/2016

Conductivity (umhos/cm): 215

Site Midpoint (Latitude, Longitude): 44.49750366, -103.86765556

Site Length (m): 100

pH: 7.8

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 6.4

Water Temperature (C): 14.0

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	4	4	5	4	62	4	40	25	3.39	64	167.5	61.0
Brown Trout	>=200mm	36	39	46	36	607	181	390	246	162.04	628	300.5	299.1

Brown Trout All 40 43 50 40 669 184 430 271 164.44 692 287.2 275.3

Site Number: 205
Site Midpoint (Latitude, Longitude): 44.47880965, -103.85669154
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR1, RB2

Date Sampled: 07/12/2016
Site Length (m): 100
Mean Width (m): 10.7
Number of Pass: 3
Conductivity (umhos/cm): 206
pH: 7.3
Water Temperature (C): 12.2
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	60	63	69	60	587	26	630	238	23.54	1014	101.3	44.9
Brown Trout	>=200mm	88	93	100	88	867	154	930	351	137.75	1496	258.5	178.0
Brown Trout	All	148	157	167	148	1464	216	1570	593	192.89	2526	194.8	147.6
Rainbow Trout	>=200mm	1	1	1	1	9	1	10	4	0.98	16	223.0	118.0
Rainbow Trout	All	1	1	1	1	9	1	10	4	0.98	16	223.0	118.0

Site Number: 340
Site Midpoint (Latitude, Longitude): 44.40182261, -103.89476328
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR1, RB2

Date Sampled: 06/14/2016
Site Length (m): 100
Mean Width (m): 10.1
Number of Pass: 3
Conductivity (umhos/cm): 385
pH: 7.6
Water Temperature (C): 8.6
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	71	96	129	71	950	43	960	385	37.97	1545	150.5	44.7
Brown Trout	>=200mm	59	64	72	59	634	102	640	257	91.33	1030	246.0	161.4
Brown Trout	All	130	157	183	131	1554	154	1570	630	137.33	2526	193.9	98.9
Rainbow Trout	<200mm	23	25	31	23	248	9	250	100	8.10	402	134.7	36.6
Rainbow Trout	>=200mm	6	6	7	6	59	13	60	24	11.86	97	277.3	223.7
Rainbow Trout	All	29	31	36	29	307	25	310	124	22.34	499	164.2	81.5

Site Number: 392
Site Midpoint (Latitude, Longitude): 44.37690503, -103.91378843
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR1, RB0

Date Sampled: 06/14/2016 **Conductivity (umhos/cm):** 213
Site Length (m): 100 **pH:** 7.5
Mean Width (m): 8.5 **Water Temperature (C):**
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	56	57	60	56	667	23	570	270	20.09	917	121.2	33.7
Brown Trout	>=200mm	41	44	50	41	515	82	440	209	72.82	708	247.7	158.4
Brown Trout	All	97	102	109	97	1194	117	1020	483	104.90	1641	174.7	98.4
Rainbow Trout	<200mm	1	1	1	1	12	1	10	5	0.57	16	169.0	55.0
Rainbow Trout	All	1	1	1	1	12	1	10	5	0.57	16	169.0	55.0

Site Number: 401
Site Midpoint (Latitude, Longitude): 44.37393343, -103.91794831
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR1, RB2

Date Sampled: 07/12/2016 **Conductivity (umhos/cm):** 217
Site Length (m): 100 **pH:**
Mean Width (m): 14.2 **Water Temperature (C):** 15.5
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	200	210	220	200	1479	65	2100	599	57.98	3379	127.7	43.9
Brown Trout	>=200mm	119	121	125	119	852	130	1210	345	116.39	1947	239.4	153.0
Brown Trout	All	319	332	342	322	2338	216	3320	947	192.76	5342	169.4	92.3
Rainbow Trout	>=200mm	5	5	5	5	35	6	50	14	5.34	80	244.2	169.8
Rainbow Trout	All	5	5	5	5	35	6	50	14	5.34	80	244.2	169.8

Site Number: 459
Site Midpoint (Latitude, Longitude): 44.33924790, -103.91586496

Date Sampled: 07/12/2016
Site Length (m): 100

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR1

Mean Width (m): 8.1

Number of Pass: 3

Conductivity (umhos/cm): 212

pH: 7.5

Water Temperature (C): 13.9

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	194	207	219	195	2556	111	2070	1035	99.52	3331	109.5	43.6
Brown Trout	>=200mm	56	56	57	56	691	99	560	280	88.23	901	232.4	142.9
Brown Trout	All	250	261	271	251	3222	251	2610	1305	224.25	4199	137.0	77.9

Site Number: 509

Site Midpoint (Latitude, Longitude): 44.31511348, -103.88464425

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR1

Date Sampled: 06/14/2016

Site Length (m): 100

Mean Width (m): 7.4

Number of Pass: 3

Conductivity (umhos/cm): 390

pH: 7.2

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	147	190	228	152	2558	117	1900	1036	104.50	3057	143.7	45.8
Brown Trout	>=200mm	107	114	123	107	1535	204	1140	622	182.26	1834	236.9	133.0
Brown Trout	All	254	297	326	268	3999	353	2970	1620	314.84	4779	183.0	88.2

Site Number: 529

Site Midpoint (Latitude, Longitude): 44.30371593, -103.87139548

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BR1

Date Sampled: 06/13/2016

Site Length (m): 100

Mean Width (m): 7.8

Number of Pass: 3

Conductivity (umhos/cm): 207

pH: 7.3

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	128	157	184	130	2022	91	1570	819	81.53	2526	134.8	45.2
Brown Trout	>=200mm	52	57	66	52	734	127	570	297	113.26	917	252.1	172.8
Brown Trout	All	180	215	243	187	2769	254	2150	1122	226.39	3459	168.7	91.6

Site Number: 570

Site Midpoint (Latitude, Longitude): 44.28744929, -103.89652776

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK0, BR1

Date Sampled: 06/14/2016

Site Length (m): 100

Mean Width (m): 5.5

Number of Pass: 3

Conductivity (umhos/cm): 407

pH: 2.7

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	1	1	1	1	18	0	10	7	0.26	16	119.0	16.0
Brook Trout	All	1	1	1	1	18	0	10	7	0.26	16	119.0	16.0
Brown Trout	<200mm	181	210	233	187	3844	133	2100	1557	118.84	3379	137.0	34.6
Brown Trout	>=200mm	30	30	32	30	549	52	300	222	46.62	483	218.5	95.1
Brown Trout	All	211	240	262	218	4393	195	2400	1779	174.49	3862	148.6	44.5

Site Number: 621

Site Midpoint (Latitude, Longitude): 44.25495945, -103.92257741

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR1

Date Sampled: 06/13/2016

Site Length (m): 100

Mean Width (m): 4.7

Number of Pass: 3

Conductivity (umhos/cm): 209

pH: 6.5

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	16	16	17	16	340	17	160	138	15.00	257	152.1	49.4
Brook Trout	>=200mm	1	1	2	1	21	2	10	9	1.67	16	214.0	88.0

Brook Trout	All	17	17	18	17	361	19	170	146	16.76	274	155.8	52.0
Brown Trout	<200mm	87	89	93	87	1890	89	890	765	79.50	1432	150.2	47.1
Brown Trout	>=200mm	34	36	41	34	764	97	360	310	86.85	579	234.2	127.2
Brown Trout	All	121	125	131	121	2654	189	1250	1075	168.80	2011	173.8	71.2

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 Spearfish Creek, 2006-2016

Site 24

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 14, 2016	70	70-72	
Brown Trout >=200mm	Jul 14, 2016	24	24-25	BR2

Site 165

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 27, 2008	101	92-112	
	Aug 08, 2011	99	96-104	
	Jun 21, 2016	36	29-51	
	Jul 12, 2016	30	27-37	

Brown Trout >=200mm	Aug 27, 2008	40	40-42	BR1
	Aug 08, 2011	59	57-64	BR1
	Jun 21, 2016	71	66-79	BR1
	Jul 12, 2016	107	102-114	BR1

Site 174

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 26, 2008	61	47-84	
	Aug 08, 2011	95	59-154	
	Jul 31, 2012	28	28-30	
	Jul 22, 2013	22	19-30	
	Jul 11, 2016	14	14-16	
Brown Trout >=200mm	Aug 26, 2008	71	71-73	BR1
	Aug 08, 2011	77	74-82	BR1
	Jul 31, 2012	101	101-103	BR1
	Jul 22, 2013	62	60-66	BR1
	Jul 11, 2016	118	98-140	BR1

Rainbow Trout <200mm	Aug 08, 2011	1	1-5	
Rainbow Trout >=200mm	Aug 26, 2008	2	2-2	RB2

Site 180

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 26, 2008	144	49-436	
	Jul 11, 2016	4	4-5	
Brown Trout >=200mm	Aug 26, 2008	36	36-38	BR1
	Jul 11, 2016	39	36-46	BR1

Site 205

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 25, 2008	92	91-95	
	Sep 12, 2011	84	85-104	
	Jul 31, 2012	20	20-22	
	Jul 22, 2013	117	114-122	
	Jul 12, 2016	63	60-69	
Brown Trout >=200mm	Aug 25, 2008	35	35-36	BR2
	Sep 12, 2011	73	72-76	BR1

Brown Trout >=200mm	Jul 31, 2012	47	47-48	BR1
	Jul 22, 2013	38	38-40	BR1
	Jul 12, 2016	93	88-100	BR1
Rainbow Trout <200mm	Sep 12, 2011	1	1-1	
Rainbow Trout >=200mm	Jul 31, 2012	1	1-1	RB2
	Jul 22, 2013	1	1-2	RB2
	Jul 12, 2016	1	1-1	RB2

Site 340

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 11, 2006	3	3-4	
	Sep 18, 2007	4	4-5	
	Sep 11, 2008	4	4-7	
	Jul 27, 2011	1	1-1	
Brook Trout >=200mm	Sep 11, 2006	1	1-5	BK3
	Jul 27, 2011	1	1-5	BK3
	Jul 30, 2012	1	1-5	BK3

Brown Trout <200mm	Sep 11, 2006	54	54-56	
	Sep 18, 2007	78	69-90	
	Sep 11, 2008	64	63-67	
	Jul 27, 2011	52	48-59	
	Jul 30, 2012	85	73-100	
	Jul 24, 2013	39	34-49	
	Oct 21, 2015	84	64-112	
	Jun 14, 2016	96	71-129	
Brown Trout >=200mm	Sep 11, 2006	34	34-35	BR1
	Sep 18, 2007	35	35-36	BR1
	Sep 11, 2008	34	34-36	BR2
	Jul 27, 2011	33	31-38	BR2
	Jul 30, 2012	45	44-48	BR1
	Jul 24, 2013	44	42-49	BR1
	Oct 21, 2015	47	44-53	BR1
	Jun 14, 2016	64	59-72	BR1

Rainbow Trout <200mm	Sep 11, 2006	114	113-117	
	Sep 18, 2007	89	86-94	
	Sep 11, 2008	38	30-55	
	Jul 27, 2011	49	34-79	
	Jul 30, 2012	75	74-78	
	Jul 24, 2013	44	41-50	
	Oct 21, 2015	46	35-67	
	Jun 14, 2016	25	23-31	
Rainbow Trout >=200mm	Sep 11, 2006	8	8-10	RB1
	Sep 18, 2007	20	20-20	RB1
	Sep 11, 2008	63	19-310	RB1
	Jul 27, 2011	4	4-4	RB2
	Jul 30, 2012	22	21-26	RB1
	Jul 24, 2013	14	14-16	RB1
	Oct 21, 2015	14	14-16	RB1
	Jun 14, 2016	6	6-7	RB2

Site 392

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 27, 2011	71	72-82	
	Jul 30, 2012	135	102-171	
	Jul 25, 2013	146	105-191	
	Jun 14, 2016	57	56-60	
Brown Trout >=200mm	Jul 27, 2011	60	58-64	BR1
	Jul 30, 2012	85	78-95	BR1
	Jul 25, 2013	54	50-61	BR1
	Jun 14, 2016	44	41-50	BR1
Rainbow Trout <200mm	Jul 27, 2011	2	2-2	
	Jun 14, 2016	1	1-1	

Site 401

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 28, 2011	362	328-396	
	Jul 12, 2016	210	200-220	
Brown Trout >=200mm	Jul 28, 2011	44	43-47	BR2

Brown Trout >=200mm	Jul 12, 2016	121	119-125	BR1
Rainbow Trout <200mm	Jul 28, 2011	2	2-3	
Rainbow Trout >=200mm	Jul 12, 2016	5	5-5	RB2

Site 459

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 01, 2011	356	231-481	
	Jul 12, 2016	207	195-219	
Brown Trout >=200mm	Aug 01, 2011	27	24-34	BR2
	Jul 12, 2016	56	56-57	BR1

Site 509

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 02, 2011	233	192-274	
	Aug 01, 2012	178	149-207	
	Jul 24, 2013	262	244-280	
	Jun 14, 2016	190	152-228	
Brown Trout >=200mm	Aug 02, 2011	74	67-84	BR1
	Aug 01, 2012	93	92-96	BR1

Brown Trout >=200mm	Jul 24, 2013	122	116-130	BR1
	Jun 14, 2016	114	107-123	BR1

Site 529

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 02, 2008	224	219-230	
	Jun 13, 2016	157	130-184	
Brown Trout >=200mm	Sep 02, 2008	58	58-59	BR1
	Jun 13, 2016	57	52-66	BR1

Site 570

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 09, 2011	3	3-4	
	Aug 02, 2012	3	3-3	
	Jul 23, 2013	2	2-2	
	Jun 14, 2016	1	1-1	
Brown Trout <200mm	Aug 09, 2011	230	208-252	
	Aug 02, 2012	294	284-304	
	Jul 23, 2013	244	238-251	

Brown Trout <200mm	Jun 14, 2016	210	187-233	
Brown Trout >=200mm	Aug 09, 2011	35	35-36	BR1
	Aug 02, 2012	21	21-23	BR1
	Jul 23, 2013	35	35-37	BR1
	Jun 14, 2016	30	30-32	BR1

Site 621

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 21, 2008	88	77-102	
	Aug 11, 2011	76	76-78	
	Aug 02, 2012	132	127-139	
	Jul 23, 2013	114	72-175	
	Jun 25, 2014	33	25-51	
	Jun 13, 2016	16	16-17	
Brook Trout >=200mm	Aug 21, 2008	1	1-5	BK3
	Aug 11, 2011	7	7-7	BK2
	Aug 02, 2012	16	16-18	BK1

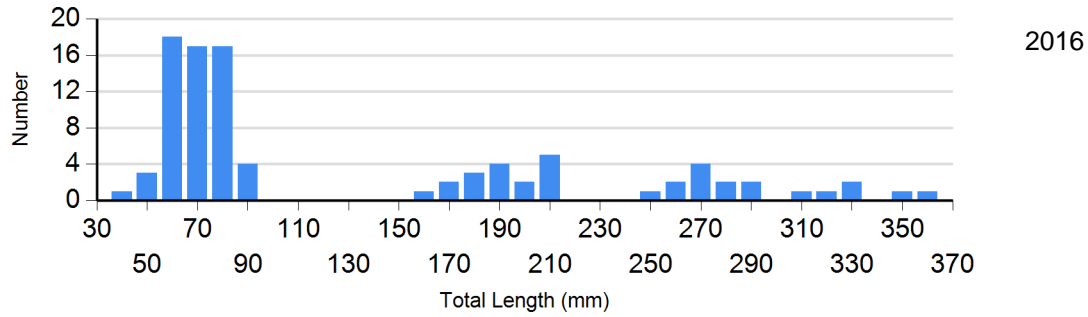
Brook Trout >=200mm	Jul 23, 2013	12	12-14	BK2
	Jun 25, 2014	8	8-9	BK2
	Jun 13, 2016	1	1-2	BK3
Brown Trout <200mm	Aug 21, 2008	28	28-30	
	Aug 11, 2011	19	16-28	
	Aug 02, 2012	66	55-82	
	Jul 23, 2013	400	85-1566	
	Jun 25, 2014	64	61-70	
	Jun 13, 2016	89	87-93	
Brown Trout >=200mm	Aug 21, 2008	6	6-9	BR2
	Aug 11, 2011	14	14-16	BR1
	Aug 02, 2012	28	28-30	BR1
	Jul 23, 2013	38	31-52	BR1
	Jun 25, 2014	37	37-39	BR1
	Jun 13, 2016	36	34-41	BR1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

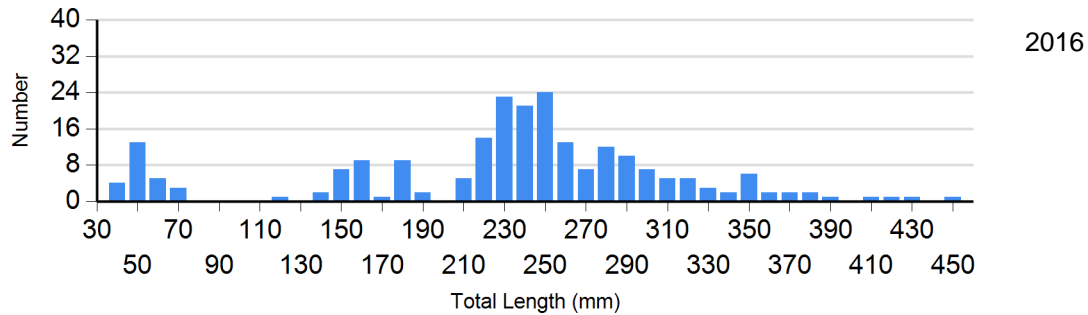
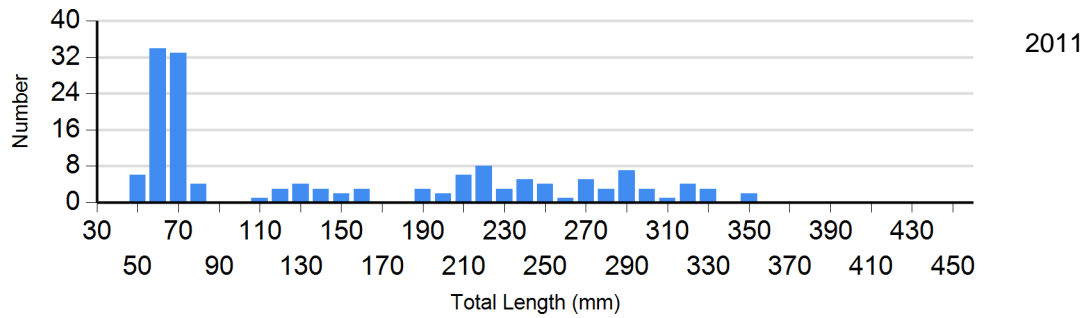
Site: 24

Species: Brown Trout

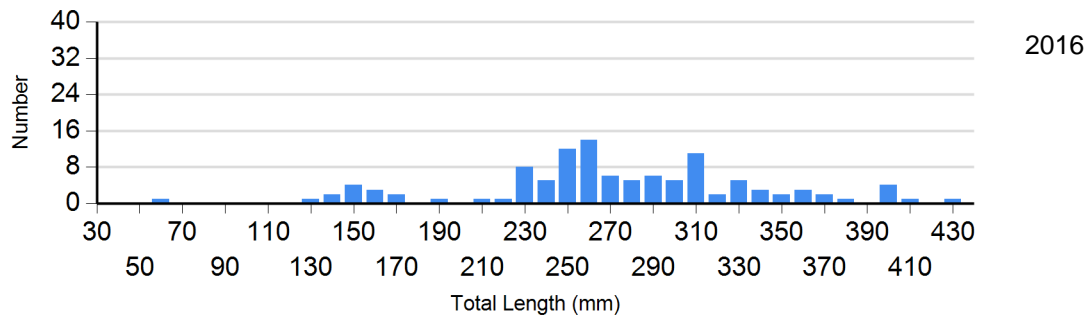
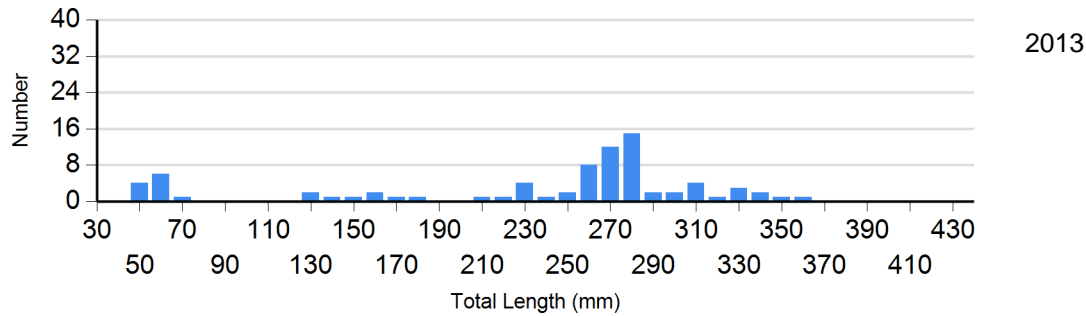
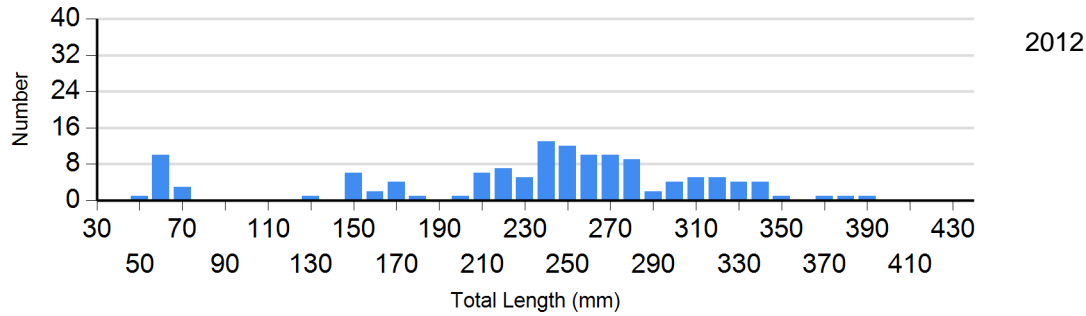
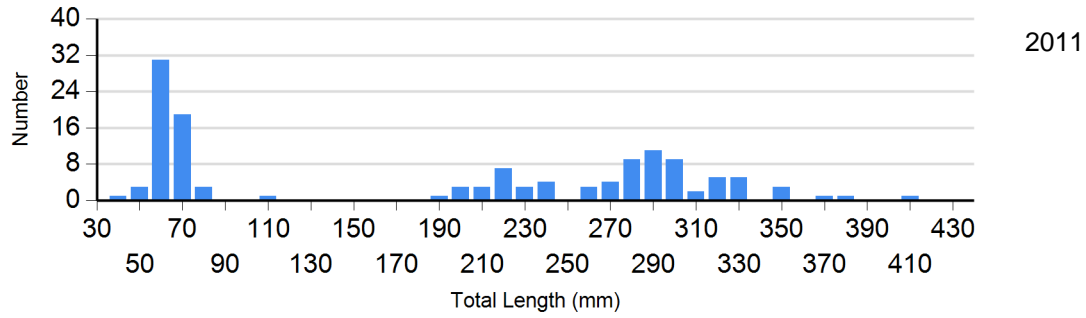


Site: 165

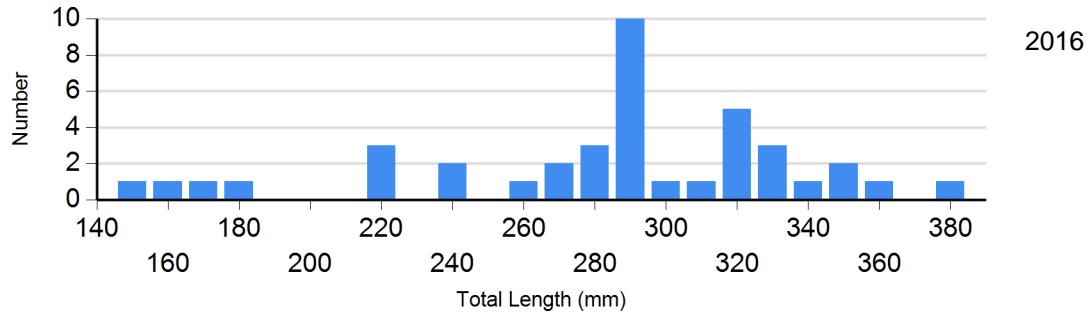
Species: Brown Trout



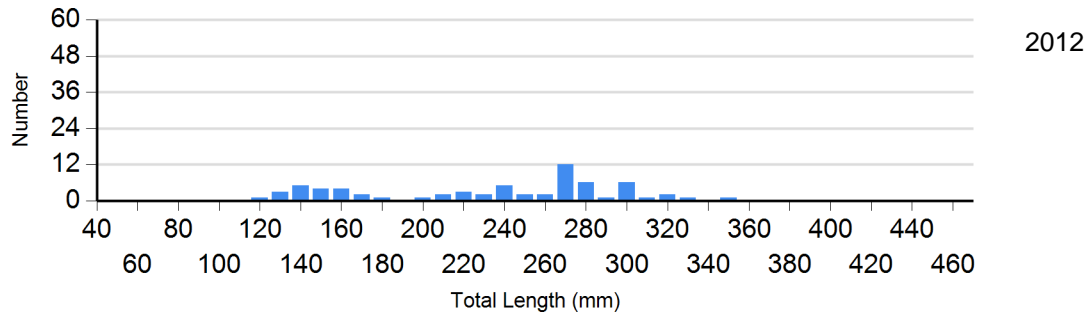
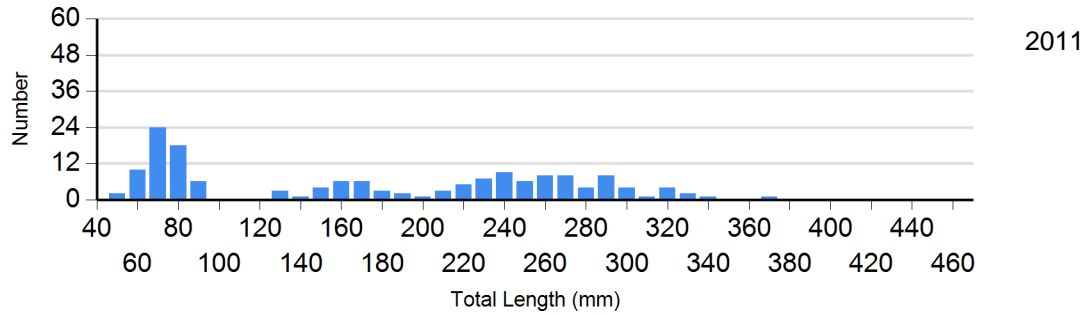
Site: 174
Species: Brown Trout

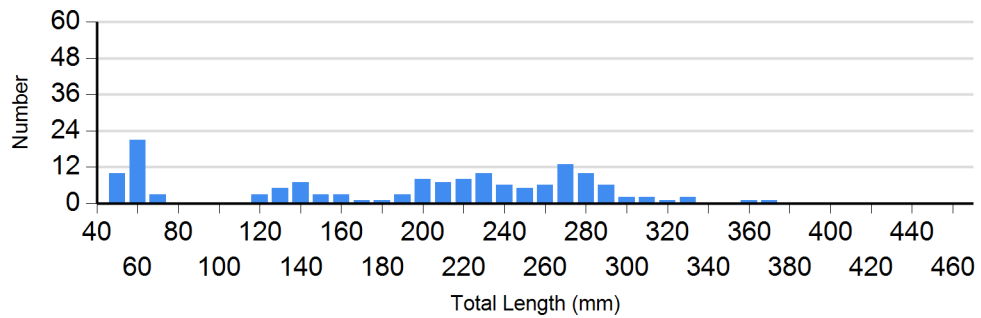
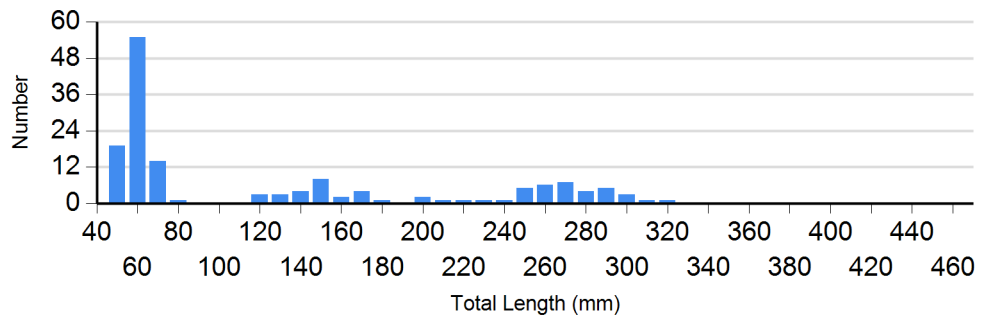


Site: 180
Species: Brown Trout

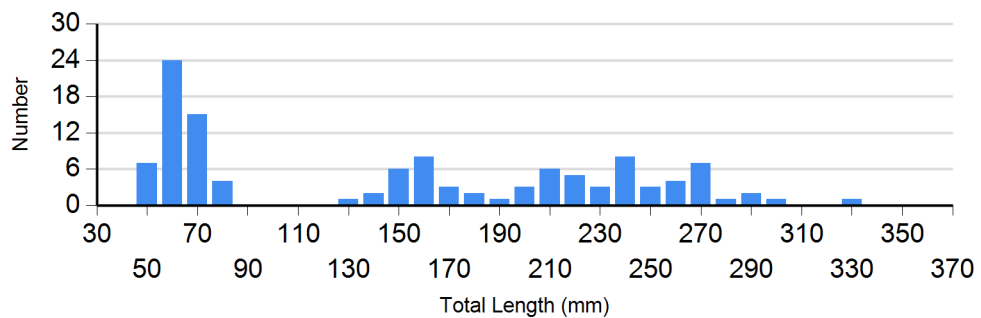
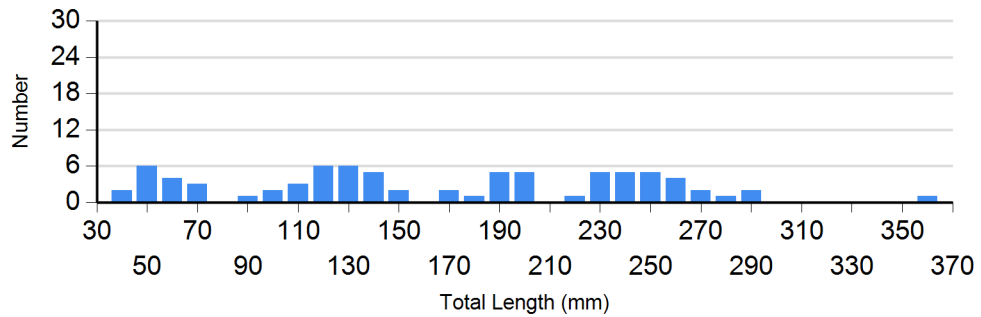


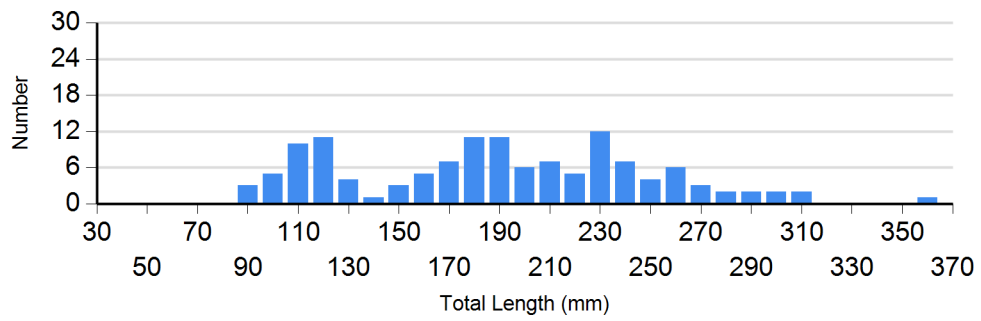
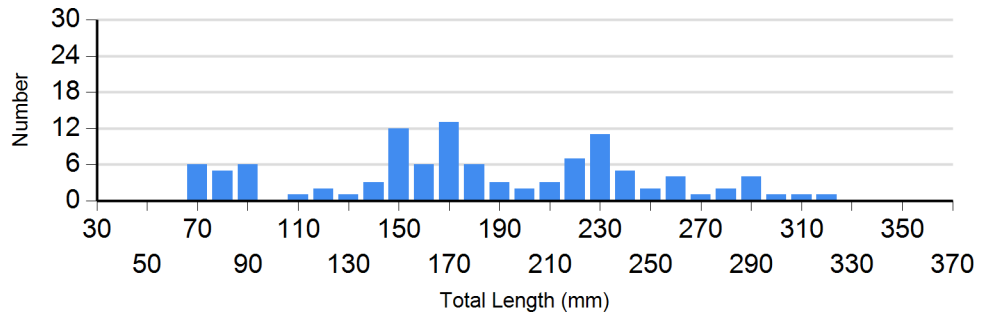
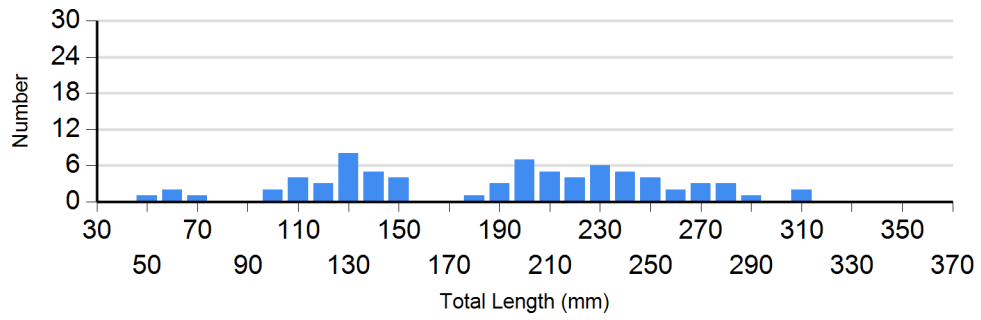
Site: 205
Species: Brown Trout



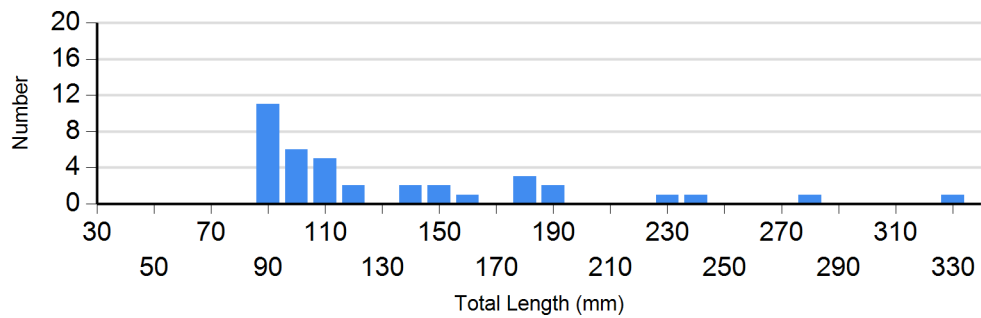


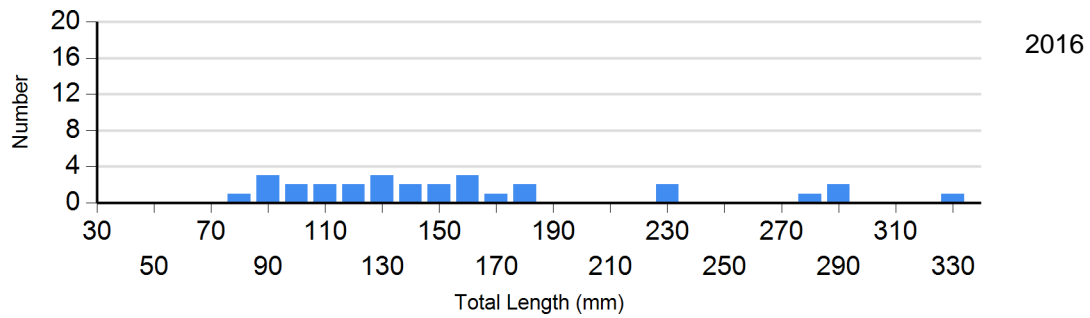
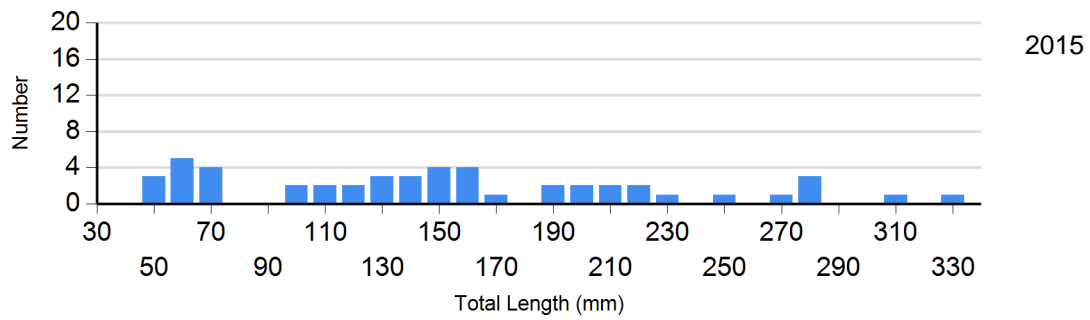
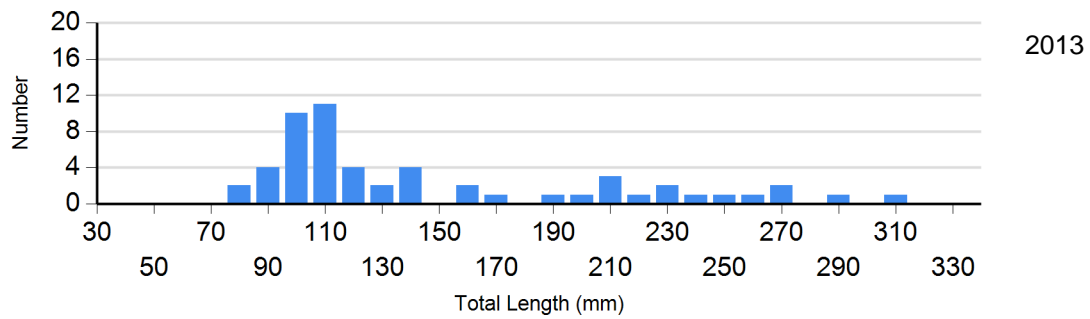
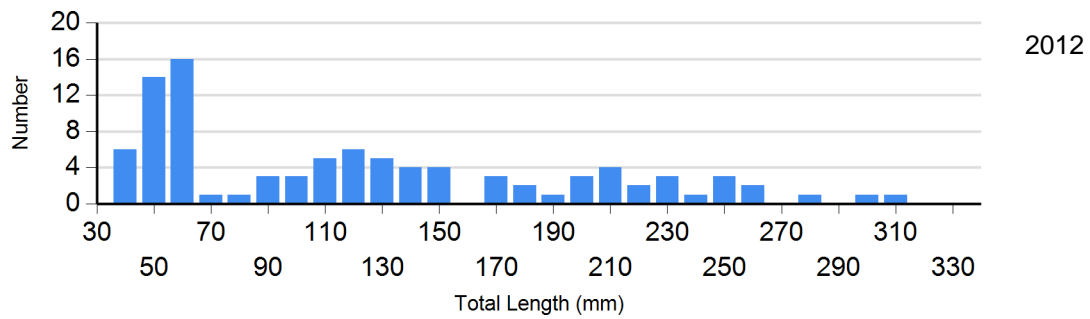
Site: 340
Species: Brown Trout



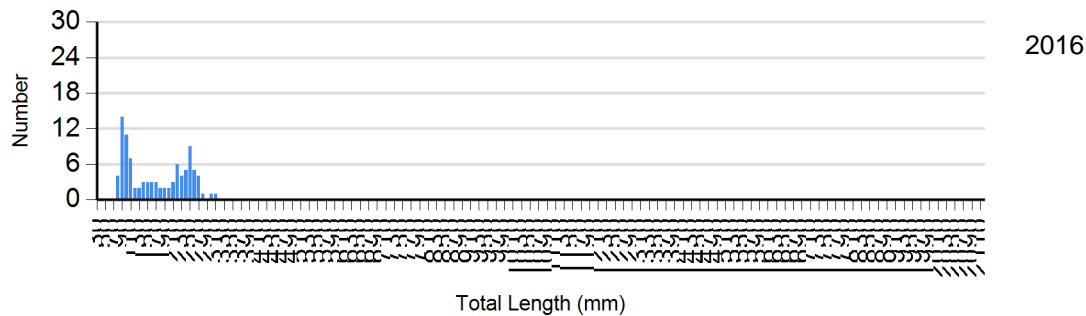
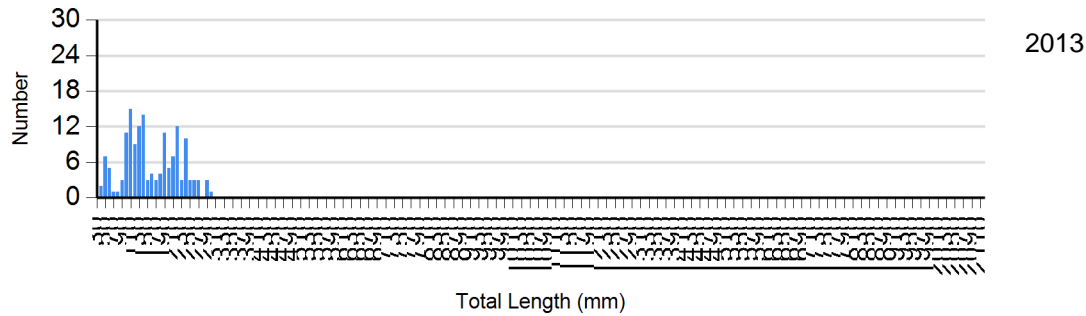
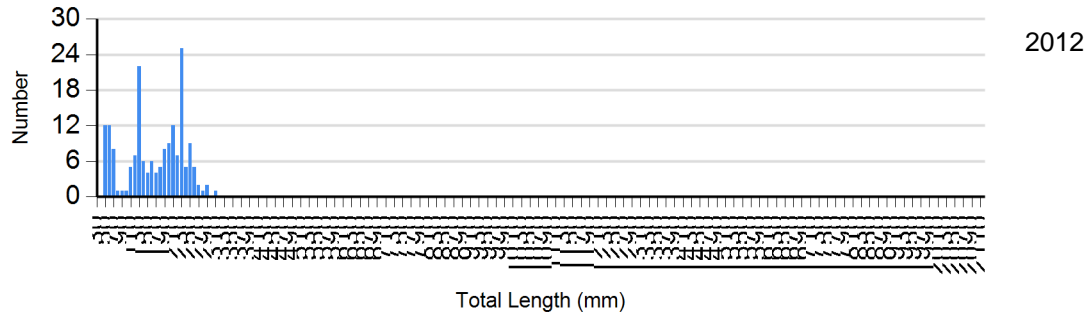
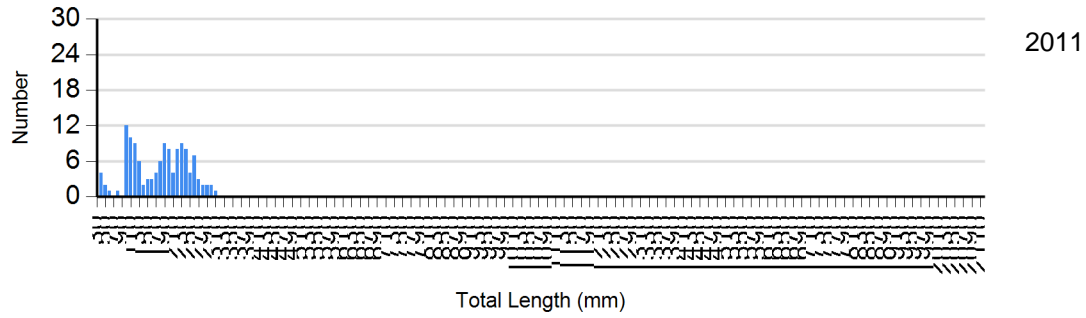


Site: 340
Species: Rainbow Trout

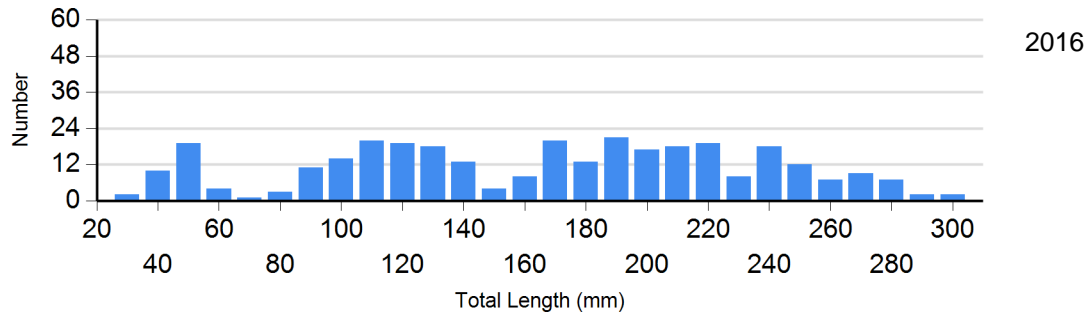
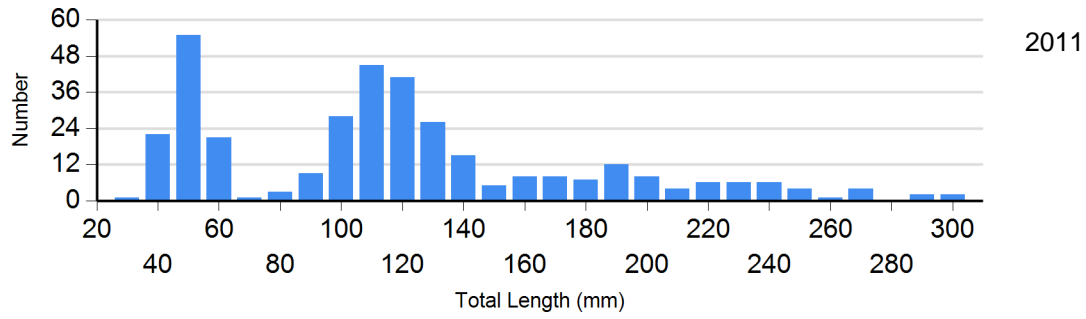




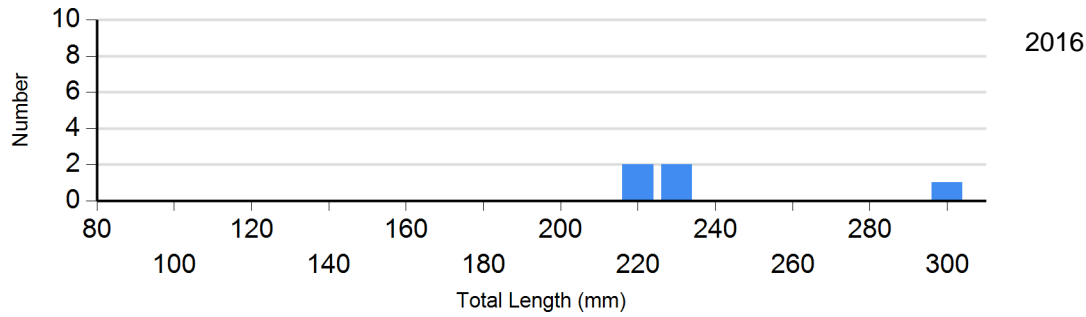
Site: 392
Species: Brown Trout



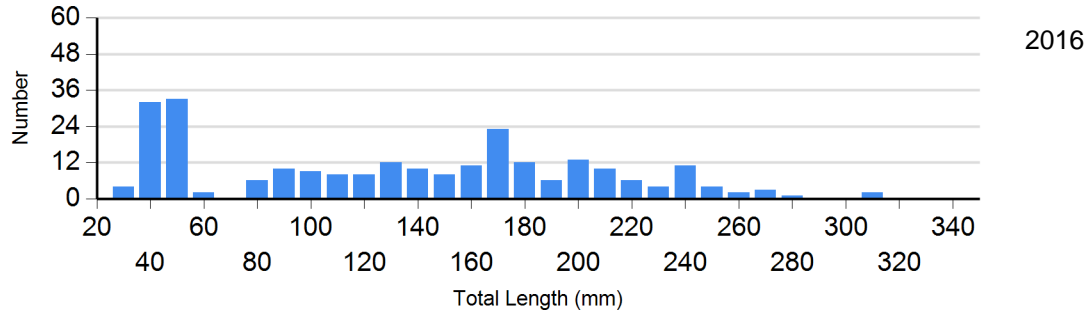
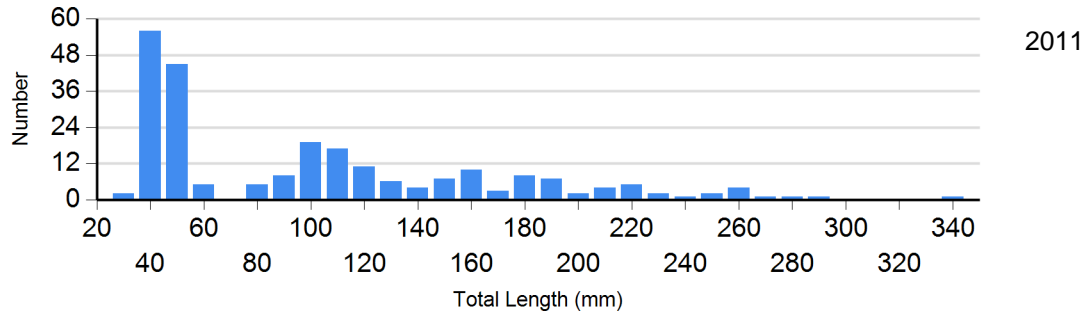
Site: 401
Species: Brown Trout



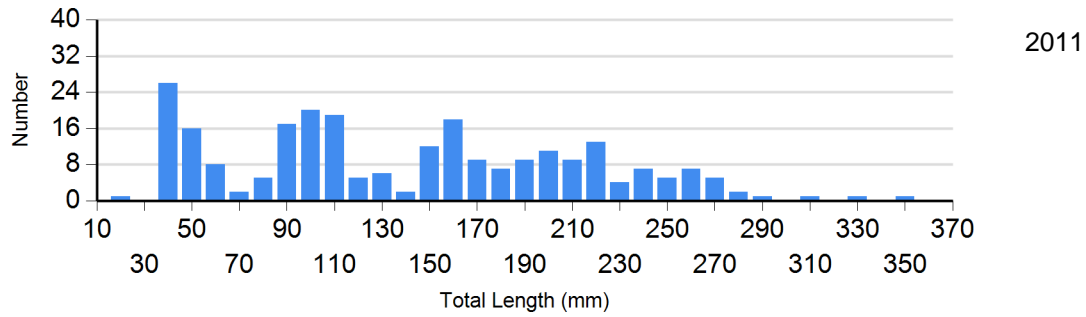
Site: 401
Species: Rainbow Trout

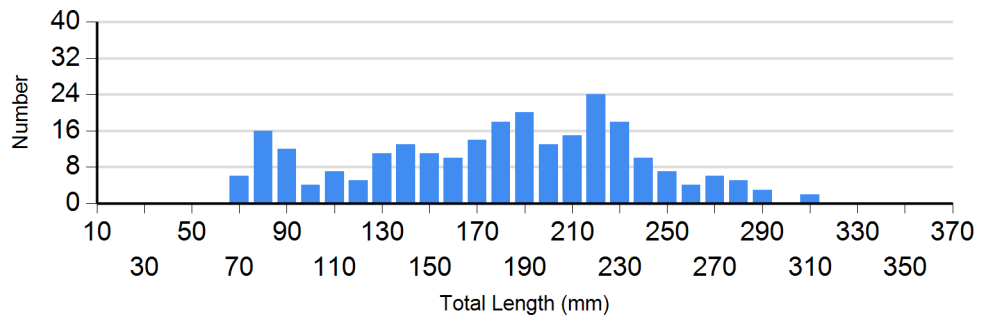
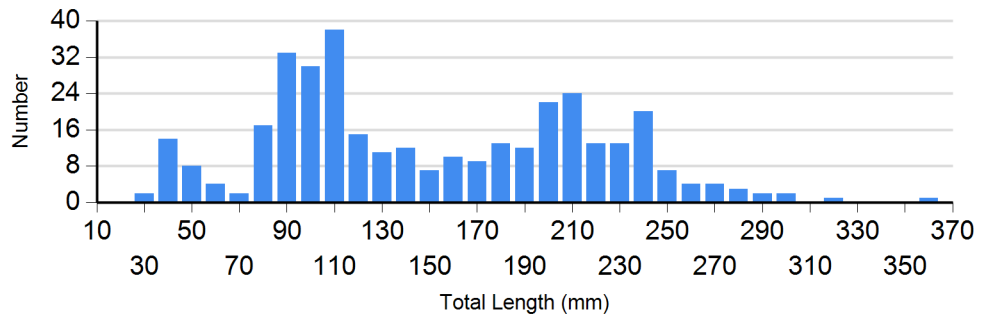
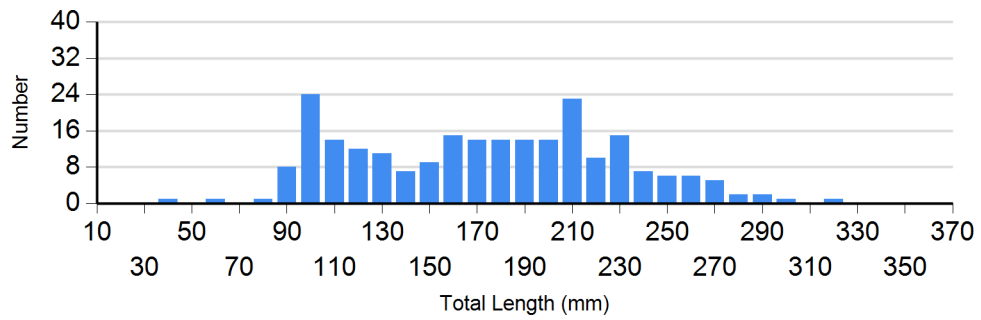


Site: 459
Species: Brown Trout

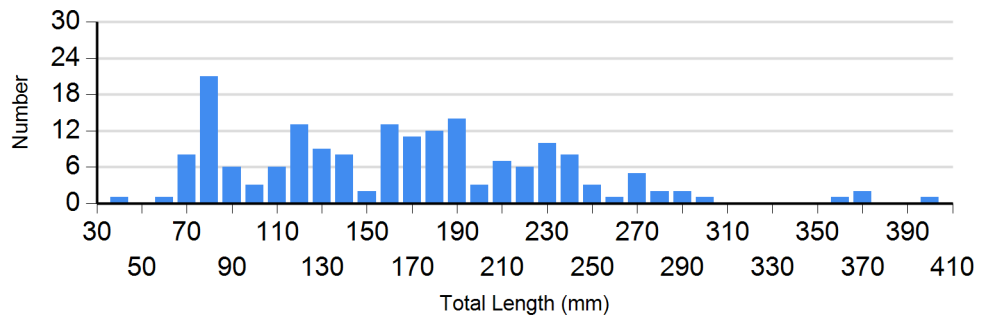


Site: 509
Species: Brown Trout

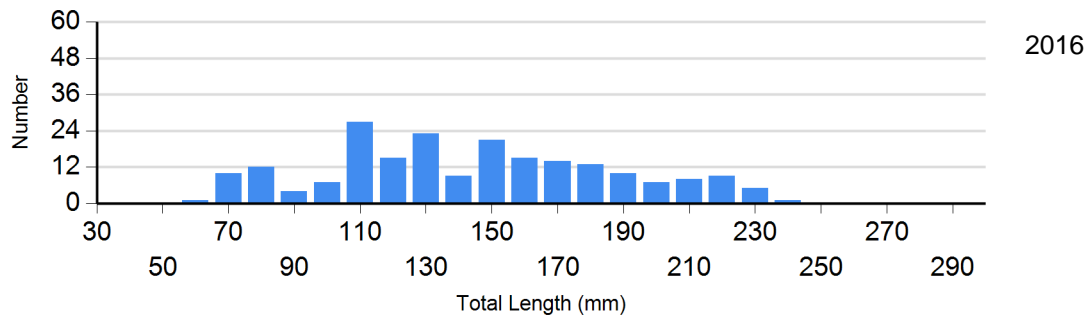
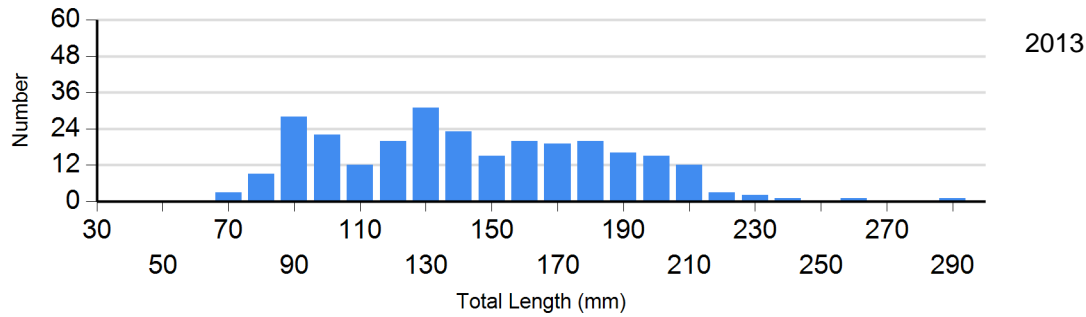
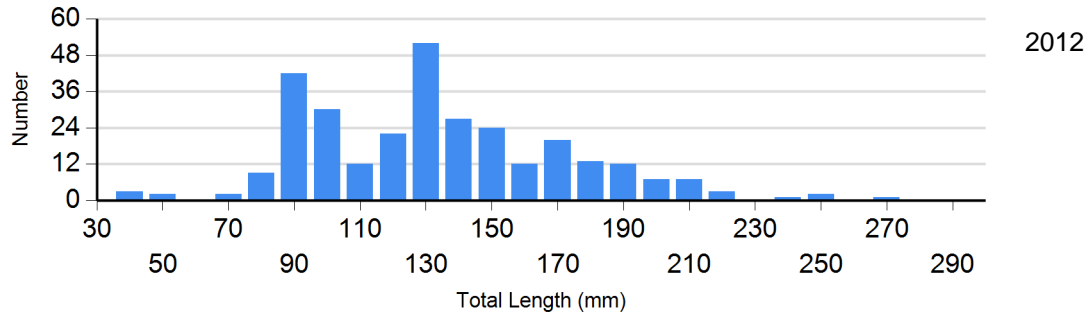
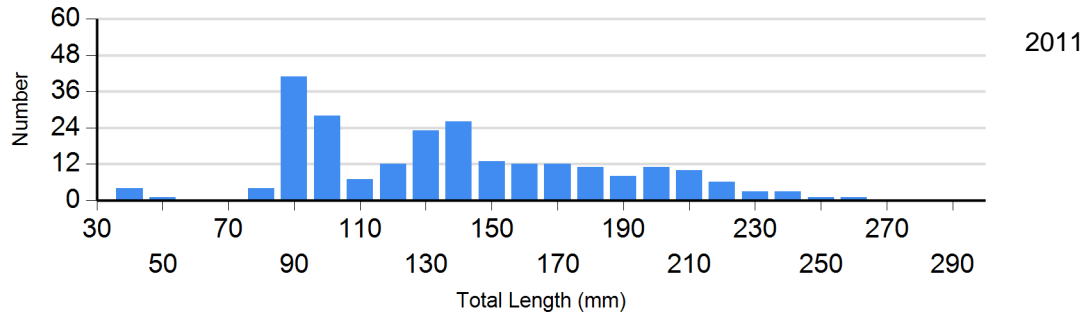




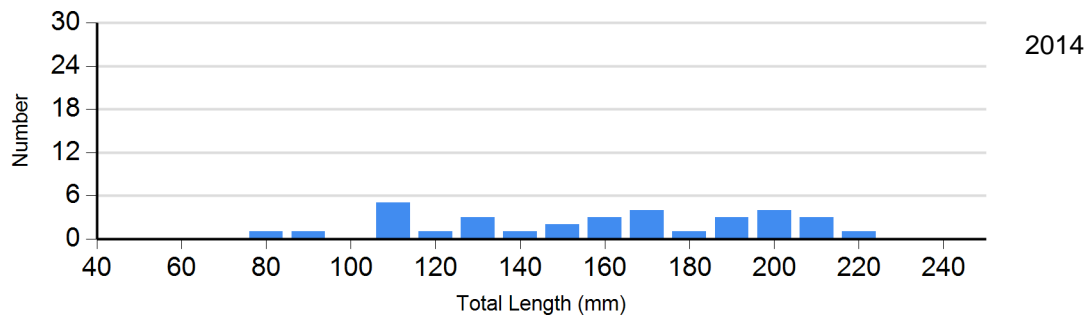
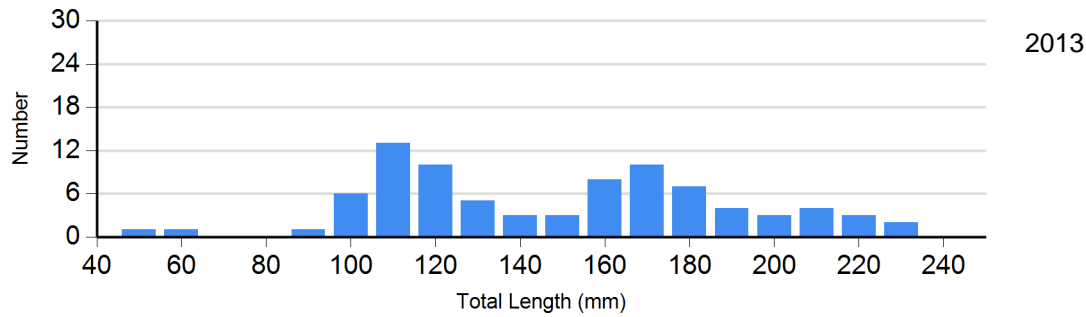
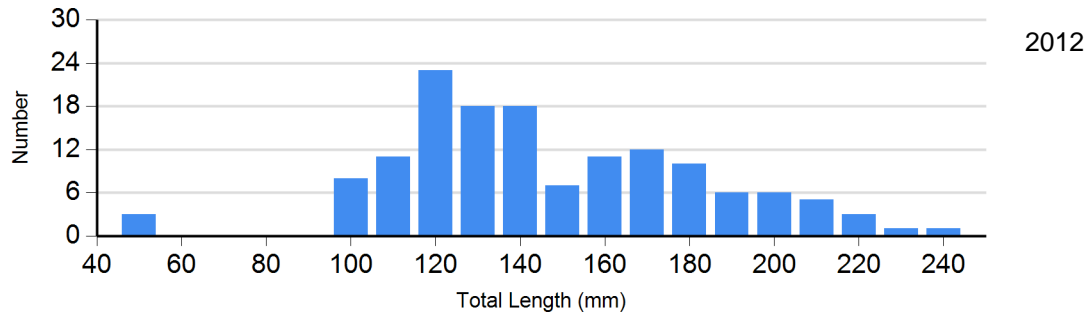
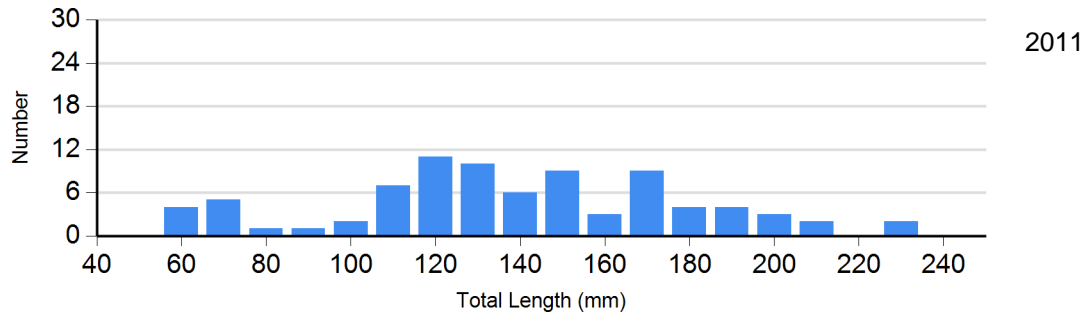
Site: 529
Species: Brown Trout

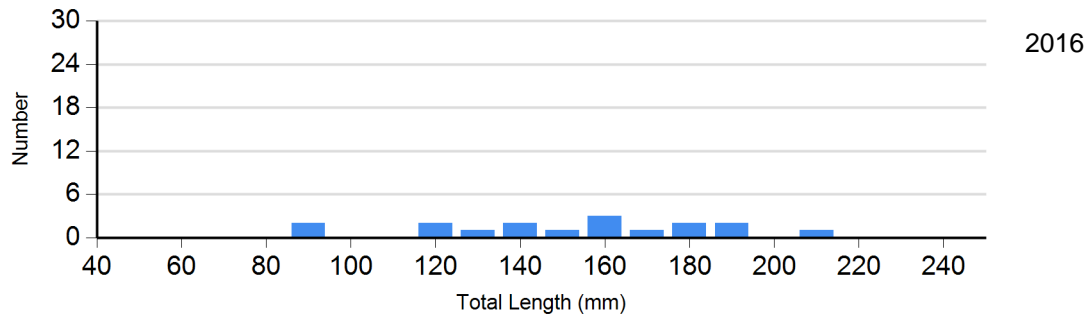


Site: 570
Species: Brown Trout



Site: 621
Species: Brook Trout





Site: 621
Species: Brown Trout

