

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Rapid Creek, Pennington County
02-0062-00
2006

Table 1. Population and Biomass Estimates for Rapid Creek

Site Number: 1412	Date Sampled: 10/05/2006	Conductivity (umhos/cm): 474
Site Midpoint (Latitude, Longitude): 44.07907606, -103.25491933	Site Length (m): 100	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 8.9	Water Temperature (C): 14.4
Stream Classification: BR1	Number of Pass: 3	Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	108	137	167	108	1544	26	1370	625	23.22	2204	112.1	16.8
Brown Trout	>=200mm	34	36	41	34	406	100	360	164	89.11	579	275.2	246.0
Brown Trout	All	193	206	218	194	2322	166	2060	940	148.64	3315	151.2	71.7
Green Sunfish	All	1	1	1	1	11	0	10	5	0.06	16	72.0	6.0
Hatchery Rainbow Trout	>=200mm	8	8	9	8	90	16	80	37	14.41	129	266.4	179.0
Hatchery Rainbow Trout	All	8	8	9	8	90	16	80	37	14.41	129	266.4	179.0
Longnose Dace	All	1	1	2	1	11	0	10	5	0.05	16	84.0	5.0
Rock Bass	All	2	2	4	2	23	2	20	9	1.86	32	130.0	92.5
White Sucker	All	65	70	78	65	789	180	700	320	161.10	1126	198.1	228.7

Site Number: 1434	Date Sampled: 10/04/2006	Conductivity (umhos/cm): 402
Site Midpoint (Latitude, Longitude): 44.06752736, -103.27112322	Site Length (m): 100	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 11.2	Water Temperature (C): 12.9
Stream Classification: BR1	Number of Pass: 2	Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	111	111	112	111	992	25	1110	402	22.03	1786	113.7	24.9
Brown Trout	>=200mm	44	44	46	44	393	85	440	159	75.84	708	263.2	216.0
Brown Trout	All	263	284	301	267	2538	201	2840	1028	179.33	4570	156.1	79.1
Longnose Dace	All	16	15	24	16	134	0	150	54	0.24	241	44.6	2.0
Rock Bass	All	7	7	7	7	63	12	70	25	10.64	113	178.9	190.6
White Sucker	All	249	279	302	256	2493	592	2790	1010	528.48	4489	207.3	237.4

Site Number: 1444
Site Midpoint (Latitude, Longitude): 44.06406624, -103.27603653
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR2, RB0

Date Sampled: 10/04/2006
Site Length (m): 100
Mean Width (m): 9.4
Number of Pass: 3
Conductivity (umhos/cm): 400
pH:
Water Temperature (C): 12.0
Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	123	123	123	123	1305	18	1230	528	15.83	1979	101.9	13.6
Brown Trout	>=200mm	8	8	8	8	85	31	80	34	27.84	129	328.3	367.4
Brown Trout	All	399	443	468	418	4699	166	4430	1903	148.37	7128	115.8	35.4
Longnose Dace	All	30	73	215	30	774	3	730	314	2.43	1175	64.7	3.5
Rainbow Trout	<200mm	2	2	3	2	21	1	20	9	0.66	32	141.5	35.0
Rainbow Trout	All	2	2	3	2	21	1	20	9	0.66	32	141.5	35.0
White Sucker	All	23	23	24	23	244	69	230	99	61.21	370	217.3	281.0

Site Number: 1656
Site Midpoint (Latitude, Longitude): 44.05452135, -103.40589571
Survey Completed by: South Dakota Game, Fish and Parks

Date Sampled: 10/02/2006
Site Length (m): 100
Mean Width (m): 7.8
Conductivity (umhos/cm): 390
pH:

Stream Classification: BR2, RB0

Number of Pass: 3

Water Temperature (C): 11.1

Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	117	117	117	117	1495	23	1170	605	20.78	1883	105.5	15.6
Brown Trout	>=200mm	15	15	16	15	192	36	150	78	32.07	241	261.5	187.4
Brown Trout	All	313	345	366	324	4408	155	3450	1785	138.13	5551	123.3	35.1
Hatchery Rainbow Trout	>=200mm	3	3	3	3	38	9	30	16	8.02	48	296.3	234.3
Hatchery Rainbow Trout	All	3	3	3	3	38	9	30	16	8.02	48	296.3	234.3
Rainbow Trout	<200mm	5	5	7	5	64	0	50	26	0.34	80	83.0	6.0
Rainbow Trout	All	5	5	7	5	64	0	50	26	0.34	80	83.0	6.0

Site Number: 1752

Date Sampled: 10/02/2006

Conductivity (umhos/cm): 385

Site Midpoint (Latitude, Longitude): 44.07974011, -103.42967056

Site Length (m): 100

pH:

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 10.5

Water Temperature (C): 13.4

Stream Classification: BR3, RB0

Number of Pass: 3

Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	135	135	136	135	1286	19	1350	521	17.37	2172	102.2	15.1
Brown Trout	>=200mm	3	3	4	3	29	13	30	12	11.25	48	352.7	441.0
Brown Trout	All	474	512	533	491	4876	123	5120	1975	109.63	8238	107.7	25.2
Hatchery Rainbow Trout	>=200mm	3	3	3	3	29	15	30	12	13.55	48	295.3	531.0
Hatchery Rainbow Trout	All	3	3	3	3	29	15	30	12	13.55	48	295.3	531.0
Rainbow Trout	<200mm	9	9	10	9	86	0	90	35	0.14	145	59.2	1.9
Rainbow Trout	All	9	9	10	9	86	0	90	35	0.14	145	59.2	1.9

Site Number: 1833
Site Midpoint (Latitude, Longitude): 44.07611720, -103.47551527
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR3, RB0

Date Sampled: 10/03/2006 **Conductivity (umhos/cm):** 400
Site Length (m): 100
Mean Width (m): 8.9 **pH:**
Number of Pass: 3 **Water Temperature (C):** 10.5
Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	179	181	185	179	2036	44	1810	824	39.15	2912	113.5	21.5
Brown Trout	>=200mm	4	4	4	4	45	19	40	18	16.86	64	314.5	419.8
Brown Trout	All	257	307	340	274	3453	105	3070	1398	93.53	4940	117.9	30.3
Hatchery Rainbow Trout	>=200mm	1	1	1	1	11	6	10	5	5.25	16	360.0	523.0
Hatchery Rainbow Trout	All	1	1	1	1	11	6	10	5	5.25	16	360.0	523.0
Rainbow Trout	<200mm	12	12	13	12	135	2	120	55	2.15	193	89.7	17.8
Rainbow Trout	All	12	12	13	12	135	2	120	55	2.15	193	89.7	17.8

Site Number: 1843
Site Midpoint (Latitude, Longitude): 44.07203156, -103.47488319
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR3, RB0

Date Sampled: 10/03/2006 **Conductivity (umhos/cm):** 394
Site Length (m): 163
Mean Width (m): 7.4 **pH:**
Number of Pass: 3 **Water Temperature (C):** 11.7
Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	209	217	225	209	2915	42	1331	1180	37.70	2142	104.6	14.5
Brown Trout	>=200mm	3	3	5	3	40	4	18	16	3.38	30	205.3	94.0
Brown Trout	All	421	686	847	525	9214	138	4209	3732	123.01	6772	106.0	15.0
Hatchery Rainbow Trout	>=200mm	12	12	12	12	161	78	74	65	69.47	118	369.1	482.7

Hatchery Rainbow Trout	All	12	12	12	12	161	78	74	65	69.47	118	369.1	482.7
Rainbow Trout	<200mm	15	18	27	15	242	1	110	98	0.56	178	52.5	2.6
Rainbow Trout	All	15	18	27	15	242	1	110	98	0.56	178	52.5	2.6

Site Number: 1849
Site Midpoint (Latitude, Longitude): 44.07572600, -103.47938063
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK0, BR0, RB0

Date Sampled: 09/28/2006
Site Length (m): 100
Mean Width (m): 8.6
Number of Pass: 3
Conductivity (umhos/cm): 394
pH:
Water Temperature (C): 9.1
Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	1	1	1	1	12	0	10	5	0.03	16	65.0	3.0
Brook Trout	All	1	1	1	1	12	0	10	5	0.03	16	65.0	3.0
Brown Trout	<200mm	108	139	171	108	1621	13	1390	657	11.43	2237	72.2	7.9
Brown Trout	All	108	139	171	108	1621	13	1390	657	11.43	2237	72.2	7.9
Hatchery Rainbow Trout	>=200mm	4	4	4	4	47	27	40	19	23.86	64	383.0	572.8
Hatchery Rainbow Trout	All	4	4	4	4	47	27	40	19	23.86	64	383.0	572.8
Rainbow Trout	<200mm	3	3	4	3	35	0	30	14	0.04	48	54.3	1.3
Rainbow Trout	All	3	3	4	3	35	0	30	14	0.04	48	54.3	1.3

Site Number: 1853
Site Midpoint (Latitude, Longitude): 44.07655505, -103.48401117
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK3, BR2, RB1

Date Sampled: 09/28/2006
Site Length (m): 100
Mean Width (m): 10.0
Number of Pass: 3
Conductivity (umhos/cm): 390
pH:
Water Temperature (C): 11.1
Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	38	50	72	38	502	7	500	203	6.36	805	95.5	14.2
Brook Trout	>=200mm	5	5	5	5	50	28	50	20	25.02	80	335.2	558.0
Brook Trout	All	43	51	65	43	512	40	510	207	35.41	821	123.4	77.4
Brown Trout	<200mm	171	215	251	179	2160	29	2150	875	25.88	3459	89.5	13.4
Brown Trout	>=200mm	7	7	7	7	70	78	70	28	69.57	113	436.3	1108.0
Brown Trout	All	178	216	247	185	2170	124	2160	879	110.83	3475	103.1	57.2
Hatchery Rainbow Trout	>=200mm	3	3	3	3	30	5	30	12	4.46	48	243.3	165.7
Hatchery Rainbow Trout	All	3	3	3	3	30	5	30	12	4.46	48	243.3	165.7
Rainbow Trout	<200mm	7	7	9	7	70	2	70	28	1.91	113	114.1	30.4
Rainbow Trout	>=200mm	16	16	17	16	161	123	160	65	110.26	257	359.2	768.3
Rainbow Trout	All	23	23	24	23	231	126	230	94	112.17	370	284.6	543.7
Rock Bass	All	1	1	5	1	10	0	10	4	0.16	16	96.0	18.0

Site Number: 1936
Site Midpoint (Latitude, Longitude): 44.08412803, -103.56026979
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR1, RB2

Date Sampled: 09/26/2006
Site Length (m): 100
Mean Width (m): 10.4
Number of Pass: 3
Conductivity (umhos/cm): 407
pH:
Water Temperature (C): 10.9
Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	137	137	139	137	1312	39	1370	531	34.89	2204	136.1	29.8
Brown Trout	>=200mm	40	40	41	40	383	52	400	155	46.49	644	244.1	136.0
Brown Trout	All	219	227	235	219	2173	117	2270	880	104.38	3652	160.5	53.8
Hatchery Rainbow Trout	>=200mm	38	38	40	38	364	93	380	147	83.15	611	300.1	256.0

Hatchery Rainbow Trout	All	38	38	40	38	364	93	380	147	83.15	611	300.1	256.0
Rainbow Trout	<200mm	29	30	34	29	287	3	300	116	3.03	483	76.7	11.8
Rainbow Trout	>=200mm	3	3	3	3	29	3	30	12	2.61	48	222.7	101.7
Rainbow Trout	All	42	46	54	42	440	10	460	178	8.58	740	90.3	21.8
White Sucker	All	71	88	110	71	842	30	880	341	27.10	1416	100.4	36.0

Site Number: 1952
Site Midpoint (Latitude, Longitude): 44.08822830, -103.57398811
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR3, RB1

Date Sampled: 09/26/2006
Site Length (m): 105
Mean Width (m): 6.9
Number of Pass: 3
Conductivity (umhos/cm): 405
pH:
Water Temperature (C): 8.5
Voltage: 300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brown Trout	<200mm	101	106	113	101	1534	23	1010	621	20.30	1624	101.8	14.8
Brown Trout	>=200mm	4	4	6	4	58	7	38	23	5.89	61	229.3	114.0
Brown Trout	All	105	111	119	105	1607	30	1057	651	26.73	1701	106.6	18.6
Rainbow Trout	<200mm	39	41	46	39	593	3	390	240	2.27	628	66.7	4.3
Rainbow Trout	>=200mm	8	8	9	8	116	26	76	47	23.44	123	288.4	226.8
Rainbow Trout	All	47	49	54	47	709	30	467	287	27.22	751	104.5	43.0
White Sucker	All	33	32	40	33	463	2	305	188	1.74	490	51.3	4.2

Site Number: 2100
Site Midpoint (Latitude, Longitude): 44.10587489, -103.65265070
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR2

Date Sampled: 08/02/2006
Site Length (m): 100
Mean Width (m): 5.1
Number of Pass: 3
Conductivity (umhos/cm): 345
pH:
Water Temperature (C): 11.5
Voltage: 275

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	40	40	41	40	777	11	400	315	9.82	644	103.5	14.2
Brown Trout	>=200mm	4	4	4	4	78	10	40	31	9.06	64	239.8	130.5
Brown Trout	All	44	44	45	44	855	21	440	346	18.88	708	115.9	24.7
Hatchery Rainbow Trout	>=200mm	2	2	3	2	39	6	20	16	5.50	32	267.5	158.5
Hatchery Rainbow Trout	All	2	2	3	2	39	6	20	16	5.50	32	267.5	158.5

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 Rapid Creek, 1996-2006

Site 1412

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 26, 1996	151	152-172	
	Oct 05, 1999	149	127-171	
	Oct 17, 2000	216	214-220	
	Oct 17, 2001	141	139-145	
	Oct 10, 2002	306	293-319	
	Mar 05, 2003	101	93-111	
	Sep 26, 2005	261	251-271	

Brown Trout <200mm	Oct 05, 2006	137	108-167	
Brown Trout >=200mm	Sep 26, 1996	120	90-155	BR1
	Oct 05, 1999	88	80-99	BR1
	Oct 17, 2000	185	185-186	BR1
	Oct 17, 2001	201	200-204	BR1
	Oct 10, 2002	140	139-143	BR1
	Mar 05, 2003	110	109-113	BR1
	Sep 26, 2005	44	35-61	BR1
	Oct 05, 2006	36	34-41	BR1
Green Sunfish	Oct 17, 2001	3	3-3	
	Sep 26, 2005	2	2-4	
	Oct 05, 2006	1	1-1	
Hatchery Rainbow Trout >=200mm	Oct 05, 2006	8	8-9	
Longnose Dace	Sep 26, 1996	1	1-2	
	Oct 17, 2000	10	10-11	
	Oct 17, 2001	7	7-8	

Longnose Dace	Oct 10, 2002	9	9-11
	Mar 05, 2003	3	4-7
	Sep 26, 2005	3	3-4
	Oct 05, 2006	1	1-2
Rock Bass	Sep 26, 1996	2	2-2
	Oct 05, 1999	1	1-1
	Oct 17, 2001	16	16-16
	Oct 10, 2002	15	15-17
	Mar 05, 2003	3	3-5
	Sep 26, 2005	7	7-9
	Oct 05, 2006	2	2-4
White Sucker	Sep 26, 1996	85	70-104
	Oct 05, 1999	37	37-39
	Oct 17, 2000	59	59-59
	Oct 17, 2001	88	88-89
	Oct 10, 2002	69	68-72

White Sucker	Mar 05, 2003	28	28-30
	Sep 26, 2005	99	96-104
	Oct 05, 2006	70	65-78

Site 1434

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 24, 1999	136	92-190	
	Oct 16, 2000	158	145-171	
	Oct 16, 2001	147	141-154	
	Oct 15, 2002	103	96-112	
	Mar 14, 2003	54	51-60	
	Oct 04, 2006	111	111-112	
Brown Trout >=200mm	Sep 24, 1999	167	133-201	BR1
	Oct 16, 2000	269	269-271	BR1
	Oct 16, 2001	288	287-291	BR1
	Oct 15, 2002	183	182-186	BR1
	Mar 14, 2003	113	113-114	BR1

Brown Trout >=200mm	Oct 04, 2006	44	44-46	BR1
Green Sunfish	Oct 16, 2001	3	3-4	
Longnose Dace	Oct 16, 2001	5	5-5	
	Mar 14, 2003	14	6-73	
	Oct 04, 2006	15	16-24	
Rock Bass	Oct 16, 2001	5	5-6	
	Oct 15, 2002	7	7-7	
	Mar 14, 2003	2	2-2	
	Oct 04, 2006	7	7-7	
White Sucker	Sep 24, 1999	62	61-65	
	Oct 16, 2000	62	62-64	
	Oct 16, 2001	94	92-98	
	Oct 15, 2002	27	27-29	
	Mar 14, 2003	57	57-57	
	Oct 04, 2006	279	256-302	

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 23, 1996	45	41-53	
	Oct 29, 1997	39	34-49	
	Oct 12, 1999	158	133-183	
	Oct 10, 2000	694	623-765	
	Oct 16, 2001	223	186-260	
	Oct 07, 2002	370	357-383	
	Mar 07, 2003	74	69-81	
	Sep 22, 2005	475	424-526	
	Oct 04, 2006	123	123-123	
Brown Trout >=200mm	Aug 23, 1996	133	122-145	BR1
	Oct 29, 1997	231	207-255	BR1
	Oct 12, 1999	178	159-197	BR1
	Oct 10, 2000	198	181-215	BR1
	Oct 16, 2001	143	142-146	BR1
	Oct 07, 2002	64	64-64	BR1

Brown Trout >=200mm	Mar 07, 2003	62	62-62	BR1
	Sep 22, 2005	51	51-52	BR1
	Oct 04, 2006	8	8-8	BR2
Hatchery Rainbow Trout >=200mm	Aug 23, 1996	1	1-5	
Longnose Dace	Aug 23, 1996	9	9-11	
	Oct 29, 1997	3	3-5	
	Oct 10, 2000	6	3-36	
	Oct 16, 2001	2	2-3	
	Oct 07, 2002	15	16-20	
	Mar 07, 2003	1	2-1	
	Sep 22, 2005	46	38-61	
	Oct 04, 2006	73	30-215	
Rainbow Trout <200mm	Sep 22, 2005	1	1-1	
	Oct 04, 2006	2	2-3	
Rainbow Trout >=200mm	Oct 29, 1997	1	1-1	RB2
White Sucker	Aug 23, 1996	22	22-23	

White Sucker	Oct 29, 1997	18	18-18
	Oct 12, 1999	12	12-12
	Oct 10, 2000	10	10-12
	Oct 16, 2001	8	8-8
	Oct 07, 2002	7	7-7
	Mar 07, 2003	15	15-15
	Sep 22, 2005	64	46-94
	Oct 04, 2006	23	23-24

Site 1656

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Oct 02, 1996	222	199-245	
	Sep 29, 1999	189	131-247	
	Oct 04, 2000	205	184-226	
	Oct 01, 2001	249	213-285	
	Oct 25, 2002	152	127-177	
	Jun 09, 2004	166	167-183	

Brown Trout <200mm	Sep 21, 2005	217	170-264	
	Oct 02, 2006	117	117-117	
Brown Trout >=200mm	Oct 02, 1996	79	68-94	BR1
	Sep 29, 1999	98	90-108	BR1
	Oct 04, 2000	84	84-85	BR1
	Oct 01, 2001	43	43-44	BR1
	Oct 25, 2002	30	30-30	BR1
	Jun 09, 2004	15	15-17	BR2
	Sep 21, 2005	20	19-24	BR2
	Oct 02, 2006	15	15-16	BR2
Hatchery Rainbow Trout >=200mm	Sep 21, 2005	4	4-4	
	Oct 02, 2006	3	3-3	
Rainbow Trout <200mm	Oct 02, 2006	5	5-7	

Site 1752

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Oct 20, 1999	115	99-133	

Brown Trout <200mm	Jun 09, 2004	147	90-223	
	Sep 21, 2005	241	175-307	
	Oct 02, 2006	135	135-136	
Brown Trout >=200mm	Oct 20, 1999	138	135-143	BR1
	Jun 09, 2004	24	24-24	BR2
	Sep 21, 2005	11	11-12	BR2
	Oct 02, 2006	3	3-4	BR3
Hatchery Rainbow Trout >=200mm	Sep 21, 2005	1	1-1	
	Oct 02, 2006	3	3-3	
Rainbow Trout <200mm	Oct 02, 2006	9	9-10	

Site 1833

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Oct 16, 1996	2	2-4	
	Oct 28, 1997	2	2-2	
	Oct 14, 1999	2	2-3	
	Oct 03, 2000	3	3-4	

Brook Trout <200mm	Oct 02, 2001	7	7-8	
	Oct 28, 2002	2	2-4	
	Oct 13, 2004	2	2-3	
Brook Trout >=200mm	Oct 28, 1997	1	1-2	BK3
Brown Trout <200mm	Oct 16, 1996	293	275-311	
	Oct 28, 1997	128	105-152	
	Oct 23, 1998	76	66-90	
	Oct 14, 1999	48	40-62	
	Oct 03, 2000	107	82-137	
	Oct 02, 2001	222	110-383	
	Oct 28, 2002	84	71-101	
	Oct 13, 2004	492	425-559	
	Sep 20, 2005	437	336-538	
	Oct 03, 2006	181	179-185	
Brown Trout >=200mm	Oct 16, 1996	30	30-31	BR2
	Oct 28, 1997	32	32-33	BR2

Brown Trout >=200mm	Oct 23, 1998	66	65-69	BR1
	Oct 14, 1999	61	61-62	BR1
	Oct 03, 2000	89	89-91	BR1
	Oct 02, 2001	62	62-63	BR1
	Oct 28, 2002	37	36-40	BR1
	Oct 13, 2004	7	7-7	BR2
	Sep 20, 2005	5	5-5	BR3
	Oct 03, 2006	4	4-4	BR3
Hatchery Rainbow Trout >=200mm	Sep 20, 2005	2	2-4	
	Oct 03, 2006	1	1-1	
Rainbow Trout <200mm	Oct 23, 1998	1	1-1	
	Oct 14, 1999	5	5-7	
	Oct 03, 2000	9	9-11	
	Oct 02, 2001	1	1-1	
	Oct 28, 2002	2	2-3	
	Oct 13, 2004	4	4-6	

Rainbow Trout <200mm	Sep 20, 2005	12	10-20	
	Oct 03, 2006	12	12-13	
Rainbow Trout >=200mm	Oct 14, 1999	1	1-1	RB2
	Oct 03, 2000	1	1-1	RB2
	Oct 02, 2001	3	3-4	RB2
	Oct 28, 2002	1	1-5	RB2
	Sep 20, 2005	2	2-2	RB2
Rock Bass	Oct 02, 2001	1	1-1	

Site 1843

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 27, 1996	14	12-21	
	Oct 22, 1997	13	5-87	
	Oct 04, 1999	1	1-1	
	Oct 01, 2001	8	7-14	
	Oct 25, 2002	6	6-6	
	Jul 07, 2004	4	4-4	

Brook Trout <200mm	Sep 19, 2005	2	2-6	
Brook Trout >=200mm	Oct 22, 1997	2	2-4	BK3
Brown Trout <200mm	Sep 27, 1996	810	431-1189	
	Oct 22, 1997	241	171-311	
	Oct 23, 1998	94	81-110	
	Oct 04, 1999	27	24-34	
	Oct 02, 2000	21	16-36	
	Oct 01, 2001	53	28-121	
	Oct 25, 2002	31	25-44	
	Jul 07, 2004	83	72-97	
	Sep 19, 2005	597	478-716	
	Oct 03, 2006	217	209-225	
Brown Trout >=200mm	Sep 27, 1996	11	10-16	BR2
	Oct 22, 1997	46	42-53	BR1
	Oct 23, 1998	152	117-187	BR1
	Oct 04, 1999	68	67-71	BR1

Brown Trout >=200mm	Oct 02, 2000	37	36-40	BR1
	Oct 01, 2001	58	58-58	BR1
	Oct 25, 2002	38	38-39	BR1
	Jul 07, 2004	9	9-9	BR2
	Sep 19, 2005	2	2-3	BR3
	Oct 03, 2006	3	3-5	BR3
Hatchery Rainbow Trout >=200mm	Sep 19, 2005	2	2-2	
	Oct 03, 2006	12	12-12	
Rainbow Trout <200mm	Sep 27, 1996	1	1-5	
	Oct 23, 1998	7	7-7	
	Oct 04, 1999	4	4-5	
	Oct 02, 2000	2	2-6	
	Sep 19, 2005	27	21-42	
	Oct 03, 2006	18	15-27	
Rainbow Trout >=200mm	Oct 23, 1998	1	1-2	RB2
	Oct 02, 2000	1	1-2	RB2

Rainbow Trout >=200mm	Oct 01, 2001	1	1-1	RB2
	Sep 19, 2005	2	2-2	RB2

Site 1849

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Oct 01, 1996	26	24-32	
	Oct 27, 1997	50	12-378	
	Oct 22, 1998	50	40-67	
	Oct 14, 1999	10	11-13	
	Oct 18, 1999	5	5-7	
	Sep 28, 2006	1	1-1	
Brook Trout >=200mm	Oct 27, 1997	10	9-15	BK2
	Oct 22, 1998	2	2-3	BK3
	Oct 14, 1999	9	8-14	BK2
Brown Trout <200mm	Oct 01, 1996	623	559-687	
	Oct 27, 1997	187	188-206	
	Oct 22, 1998	156	141-171	

Brown Trout <200mm	Oct 14, 1999	146	105-191	
	Oct 18, 1999	66	64-70	
	Sep 28, 2006	139	108-171	
Brown Trout >=200mm	Oct 01, 1996	30	23-46	BR2
	Oct 27, 1997	101	75-134	BR1
	Oct 22, 1998	55	48-67	BR1
	Oct 14, 1999	148	94-216	BR1
	Oct 18, 1999	56	56-57	BR1
Hatchery Rainbow Trout >=200mm	Oct 14, 1999	1	1-2	
	Sep 28, 2006	4	4-4	
Rainbow Trout <200mm	Oct 01, 1996	1	1-4	
	Oct 22, 1998	1	1-1	
	Oct 14, 1999	18	17-22	
	Oct 18, 1999	2	2-6	
	Sep 28, 2006	3	3-4	
Rainbow Trout >=200mm	Oct 01, 1996	1	1-1	RB2

Rainbow Trout >=200mm	Oct 27, 1997	4	4-6	RB2
	Oct 22, 1998	2	2-2	RB2

Site 1853

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Oct 22, 1998	16	13-26	
	Oct 04, 1999	18	18-20	
	Oct 03, 2000	11	12-15	
	Oct 02, 2001	17	17-17	
	Sep 23, 2002	18	18-20	
	Jul 07, 2004	24	24-25	
	Sep 19, 2005	104	92-118	
	Sep 28, 2006	50	38-72	
Brook Trout >=200mm	Oct 22, 1998	1	1-1	BK3
	Oct 04, 1999	3	3-4	BK3
	Oct 03, 2000	6	6-9	BK2
	Oct 02, 2001	10	8-19	BK2

Brook Trout >=200mm	Sep 23, 2002	3	3-4	BK3
	Jul 07, 2004	1	1-1	BK3
	Sep 19, 2005	5	5-6	BK3
	Sep 28, 2006	5	5-5	BK3
Brown Trout <200mm	Oct 02, 1996	156	126-186	
	Oct 22, 1997	263	118-483	
	Oct 22, 1998	148	94-216	
	Oct 04, 1999	67	63-74	
	Oct 03, 2000	42	42-43	
	Oct 02, 2001	81	72-93	
	Sep 23, 2002	68	48-101	
	Jul 07, 2004	40	33-53	
	Sep 19, 2005	237	168-306	
	Sep 28, 2006	215	179-251	
Brown Trout >=200mm	Oct 02, 1996	17	17-19	BR2
	Oct 22, 1997	44	39-54	BR1

Brown Trout >=200mm	Oct 22, 1998	76	53-113	BR1
	Oct 04, 1999	51	50-54	BR1
	Oct 03, 2000	35	34-39	BR2
	Oct 02, 2001	53	53-55	BR1
	Sep 23, 2002	28	28-28	BR2
	Jul 07, 2004	18	18-18	BR2
	Sep 19, 2005	17	17-18	BR2
	Sep 28, 2006	7	7-7	BR2
Hatchery Rainbow Trout >=200mm	Sep 19, 2005	2	2-2	
	Sep 28, 2006	3	3-3	
Rainbow Trout <200mm	Oct 02, 1996	28	28-29	
	Oct 22, 1997	2	2-2	
	Oct 22, 1998	1	1-2	
	Oct 04, 1999	44	34-63	
	Oct 03, 2000	118	93-146	
	Oct 02, 2001	43	43-45	

Rainbow Trout <200mm	Sep 23, 2002	5	5-7	
	Jul 07, 2004	7	6-13	
	Sep 19, 2005	28	29-35	
	Sep 28, 2006	7	7-9	
Rainbow Trout >=200mm	Oct 02, 1996	5	3-24	RB2
	Oct 22, 1997	3	3-4	RB2
	Oct 22, 1998	4	4-7	RB2
	Oct 04, 1999	3	3-5	RB2
	Oct 03, 2000	26	24-32	RB1
	Oct 02, 2001	20	20-21	RB1
	Sep 23, 2002	24	24-25	RB1
	Jul 07, 2004	6	6-7	RB2
	Sep 19, 2005	5	3-24	RB2
	Sep 28, 2006	16	16-17	RB1
Rock Bass	Sep 28, 2006	1	1-5	

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 26, 2006	137	137-139	
Brown Trout >=200mm	Sep 26, 2006	40	40-41	BR1
Hatchery Rainbow Trout >=200mm	Sep 26, 2006	38	38-40	
Rainbow Trout <200mm	Sep 26, 2006	30	29-34	
Rainbow Trout >=200mm	Sep 26, 2006	3	3-3	RB2
White Sucker	Sep 26, 2006	88	71-110	

Site 1952

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 28, 1999	114	90-141	
	Oct 02, 2000	51	50-54	
	Oct 01, 2001	29	28-32	
	Oct 28, 2002	48	47-51	
	Sep 26, 2006	106	101-113	
Brown Trout >=200mm	Sep 28, 1999	31	31-33	BR2
	Oct 02, 2000	23	23-23	BR2

Brown Trout >=200mm	Oct 01, 2001	14	14-15	BR2
	Oct 28, 2002	13	13-14	BR2
	Sep 26, 2006	4	4-6	BR3
Hatchery Rainbow Trout >=200mm	Sep 28, 1999	4	4-4	
	Oct 01, 2001	1	1-1	
	Oct 28, 2002	1	1-1	
Rainbow Trout <200mm	Sep 28, 1999	5	5-7	
	Oct 02, 2000	5	3-24	
	Oct 28, 2002	4	4-4	
	Sep 26, 2006	41	39-46	
Rainbow Trout >=200mm	Oct 02, 2000	1	1-1	RB2
	Sep 26, 2006	8	8-9	RB1
Rock Bass	Sep 28, 1999	1	1-2	
	Oct 02, 2000	5	5-6	
	Oct 01, 2001	15	15-17	
	Oct 28, 2002	13	13-14	

White Sucker	Oct 28, 2002	1	1-2
	Sep 26, 2006	32	33-40

Site 2100

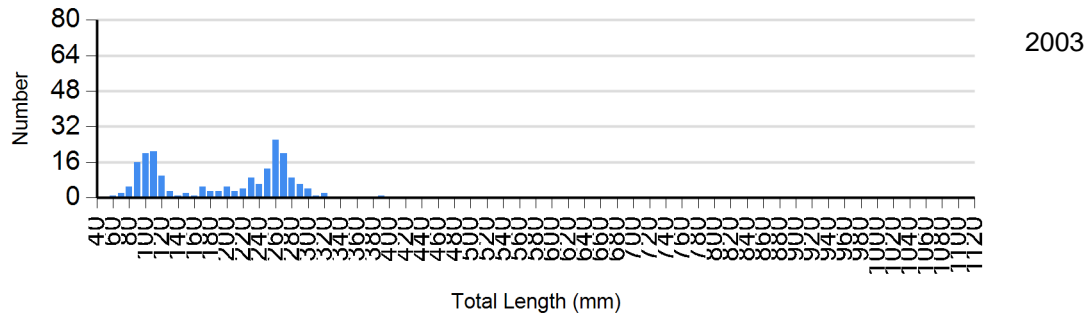
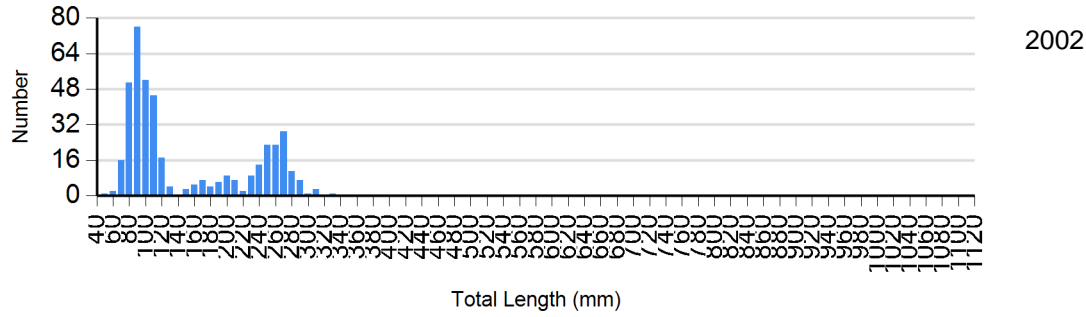
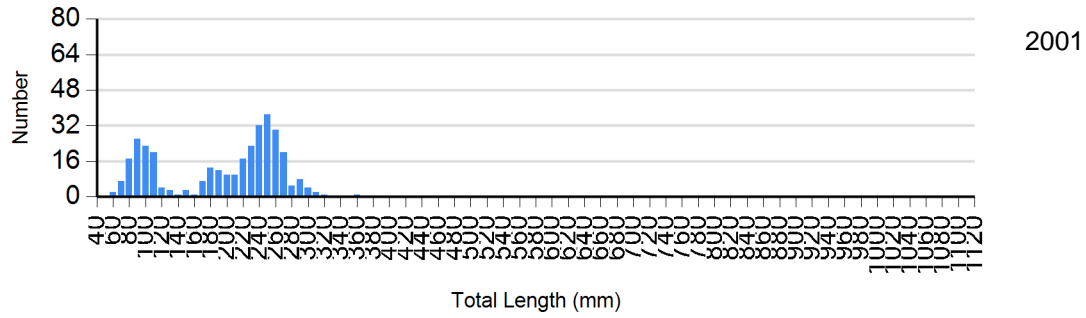
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 02, 2006	40	40-41	
Brown Trout >=200mm	Aug 02, 2006	4	4-4	BR2
Hatchery Rainbow Trout >=200mm	Aug 02, 2006	2	2-3	

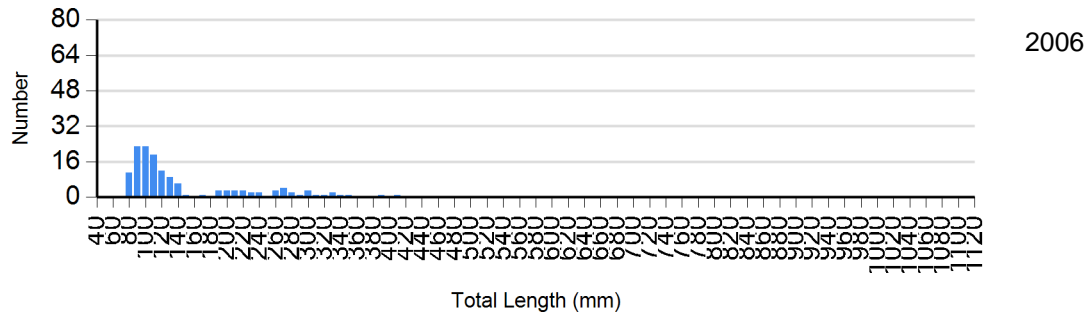
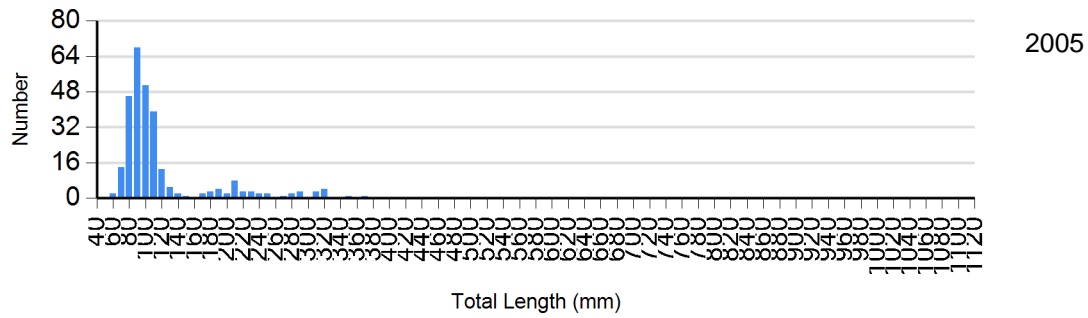
Length Frequency Distribution

Length frequency histogram of species sampled by year.

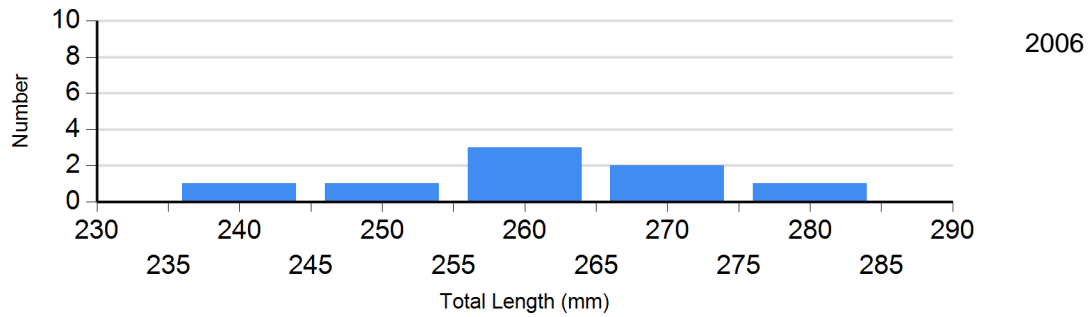
Site: 1412

Species: Brown Trout

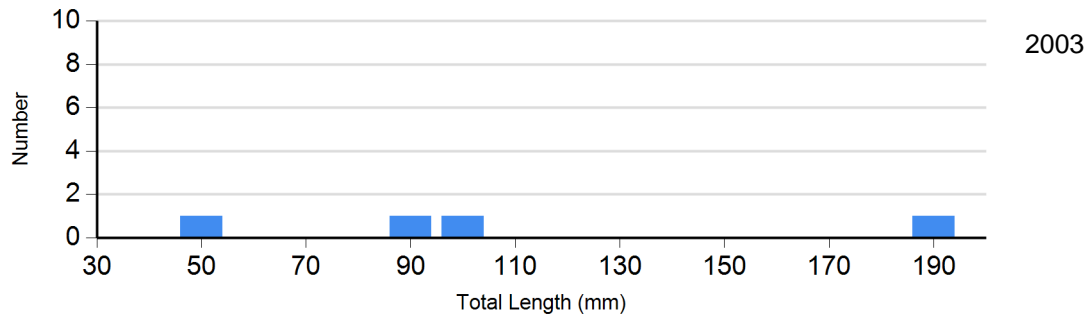
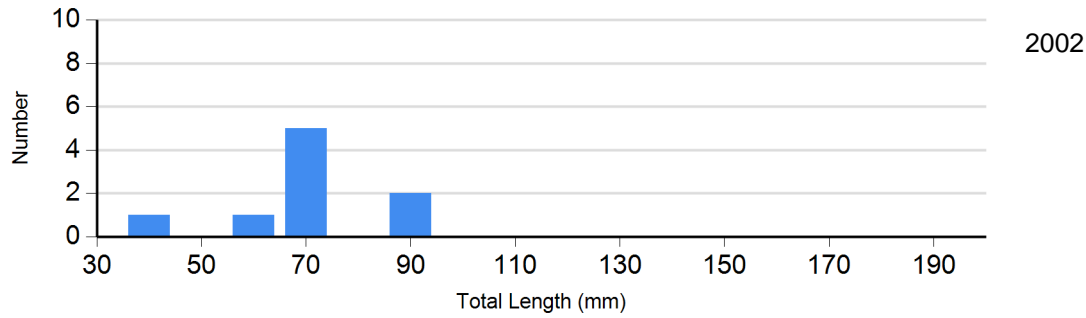
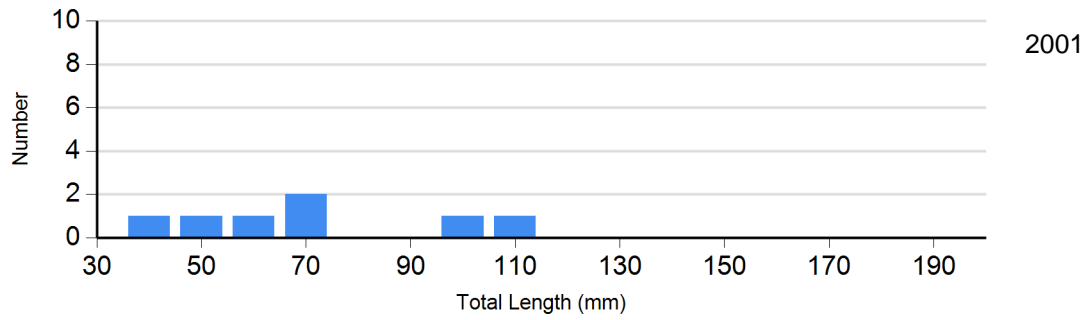




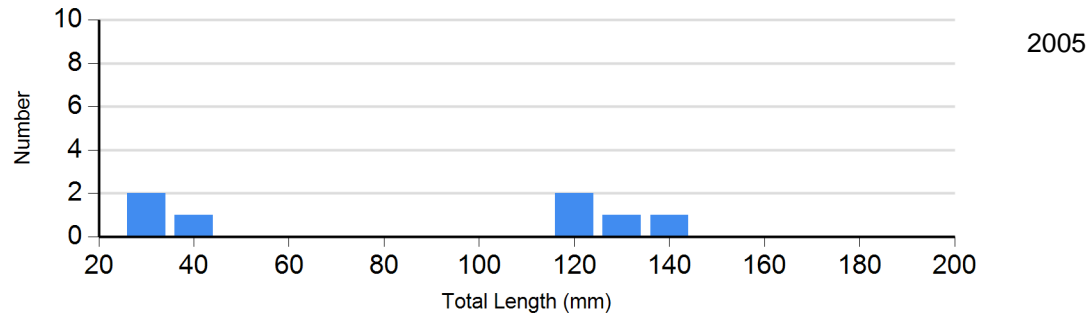
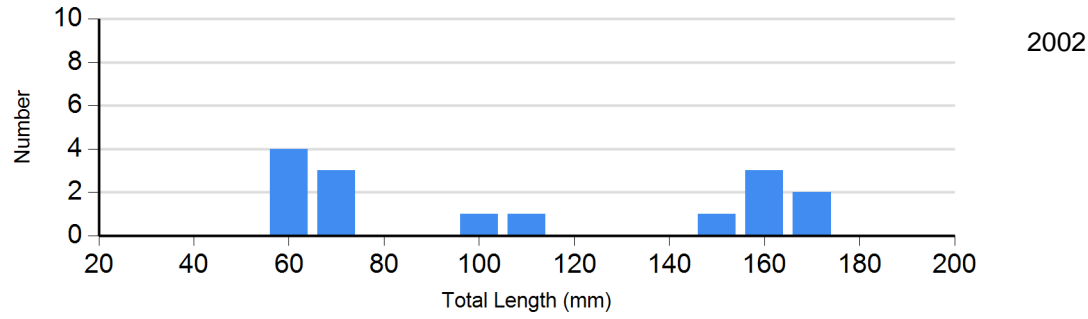
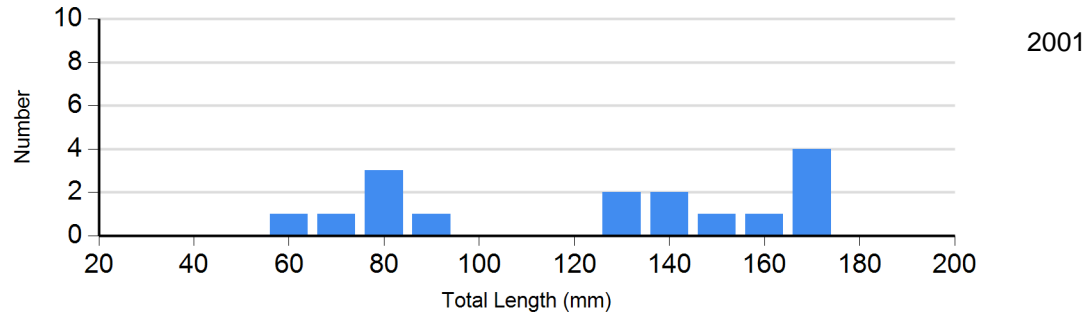
Site: 1412
Species: Hatchery Rainbow Trout



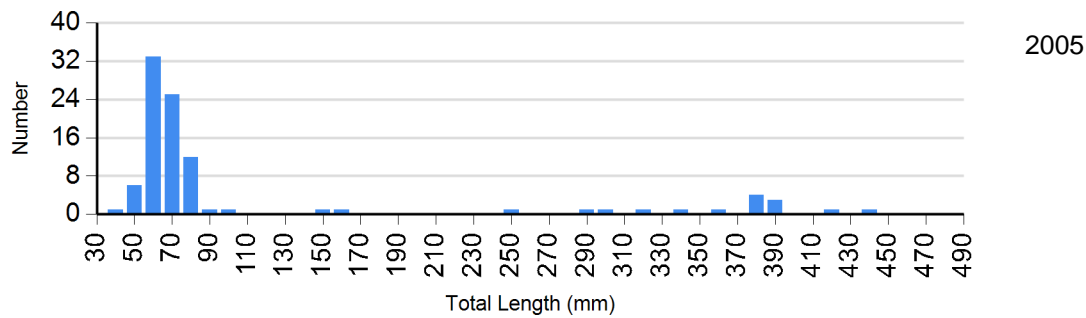
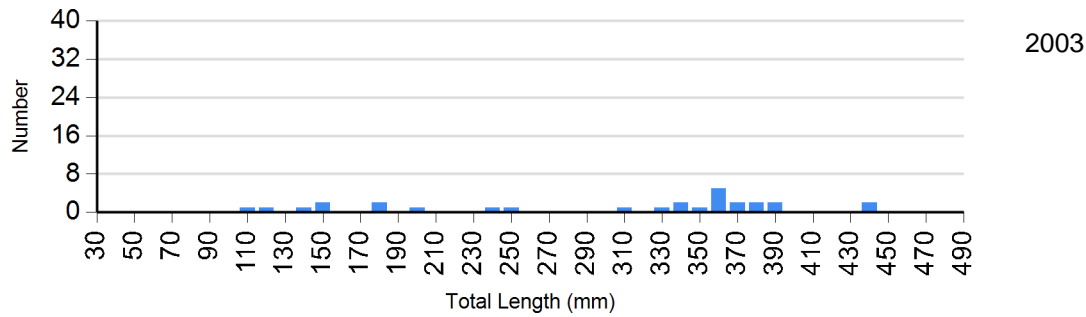
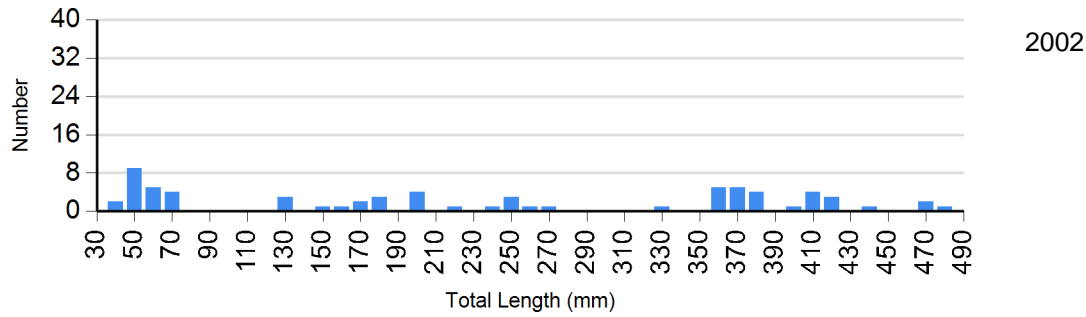
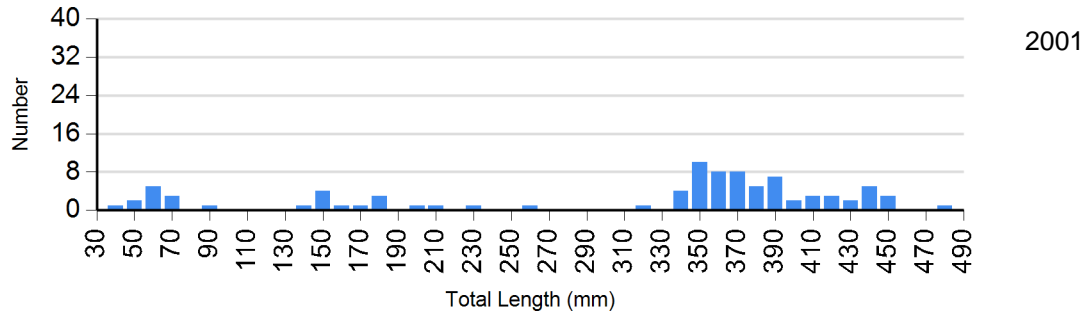
Site: 1412
Species: Longnose Dace

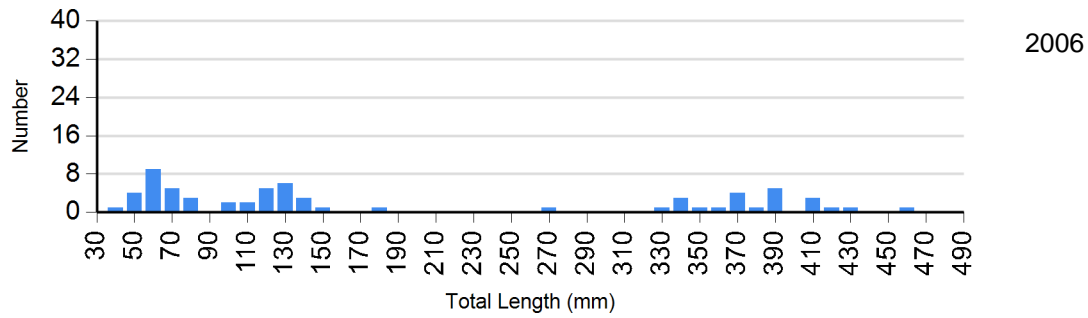


Site: 1412
Species: Rock Bass

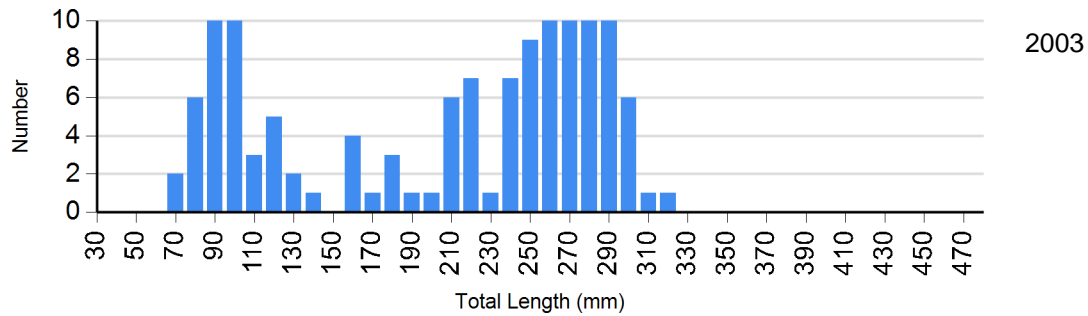
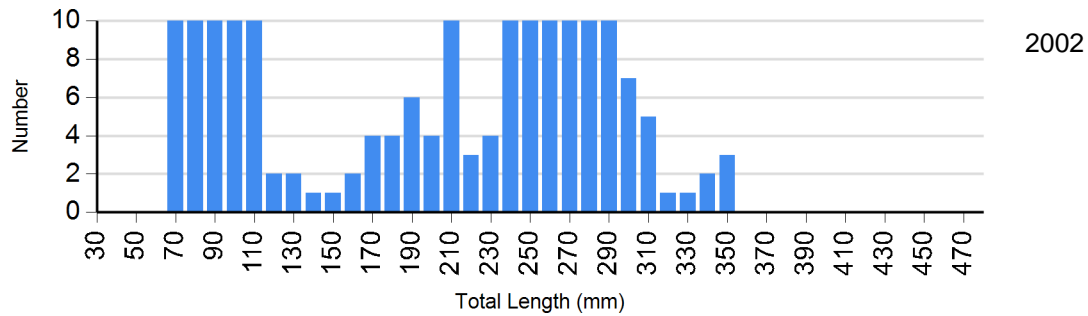
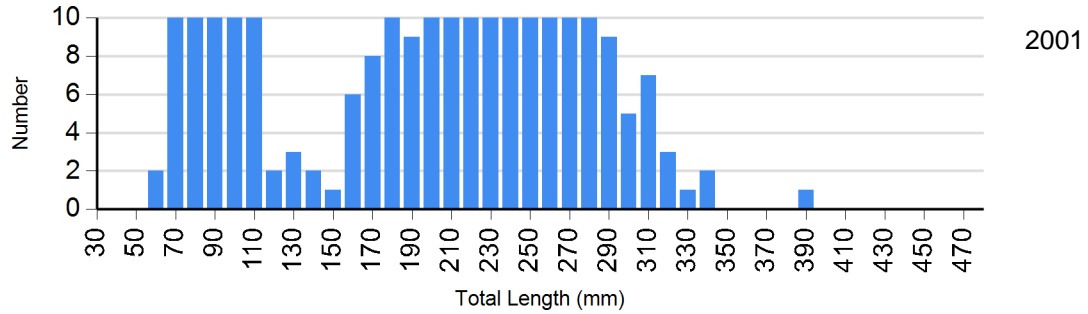


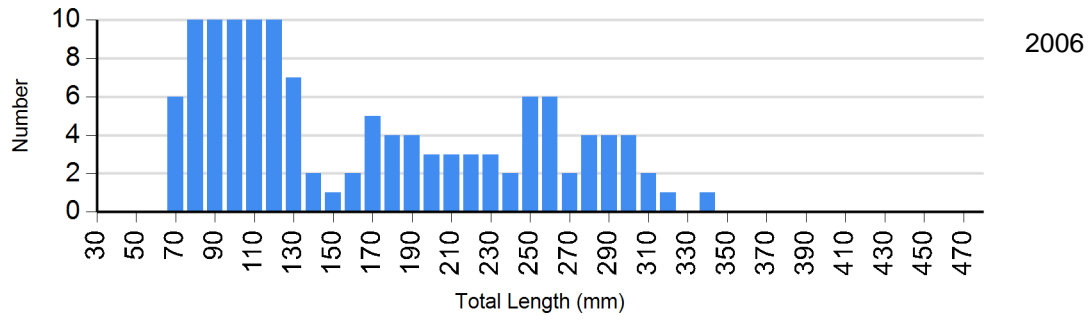
Site: 1412
Species: White Sucker



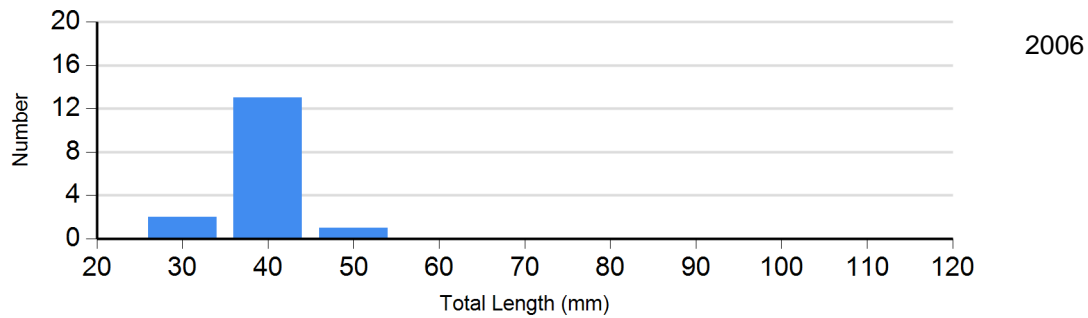
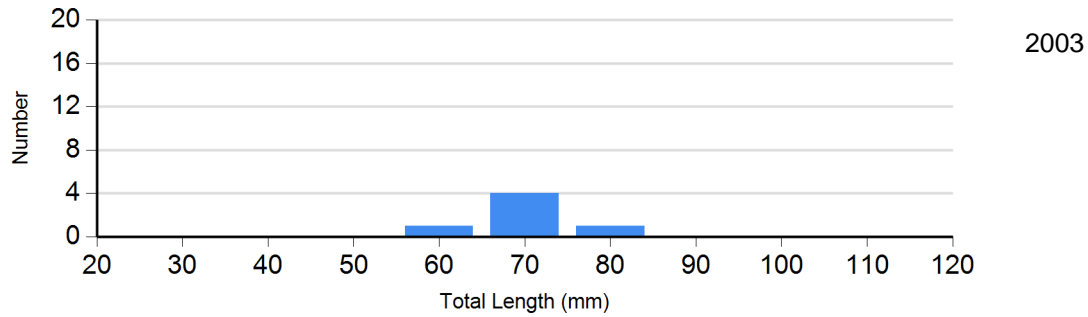
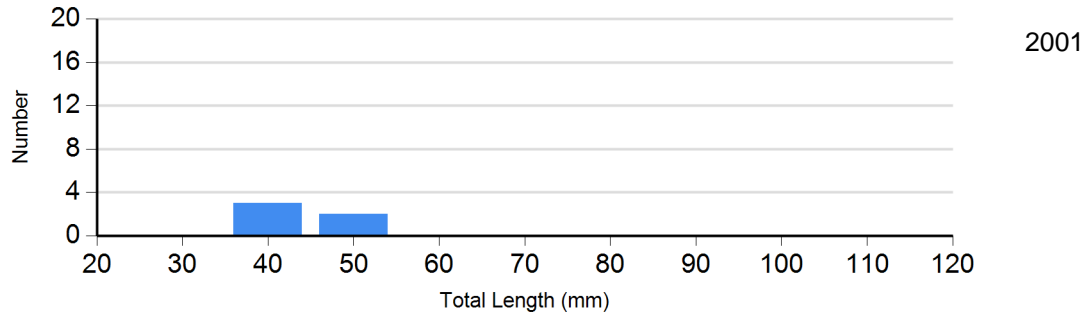


Site: 1434
Species: Brown Trout

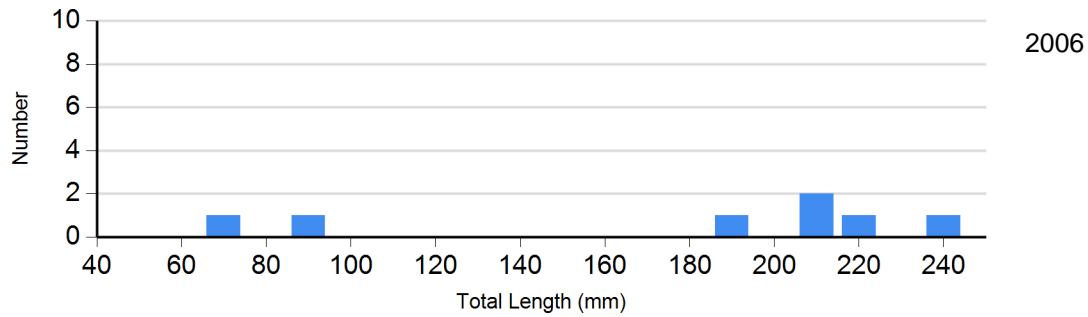
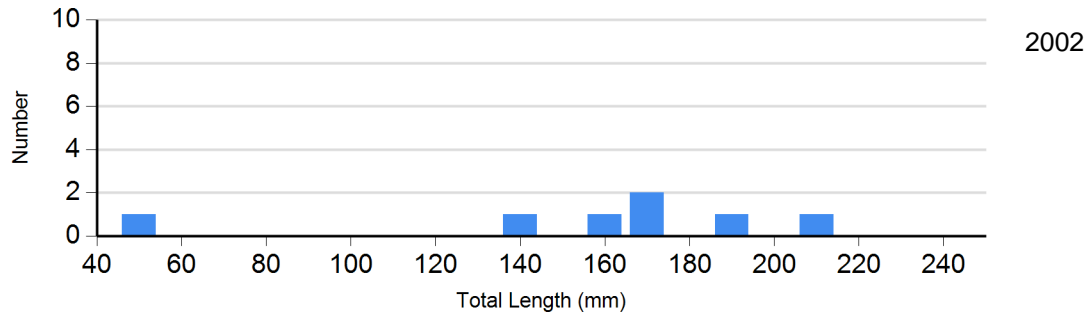
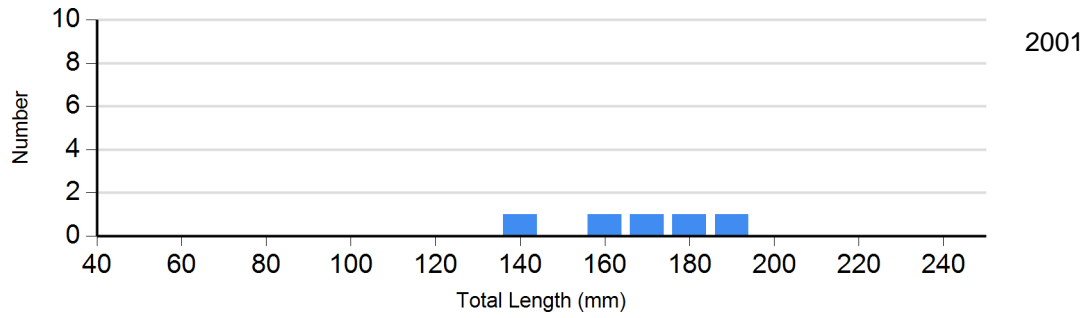




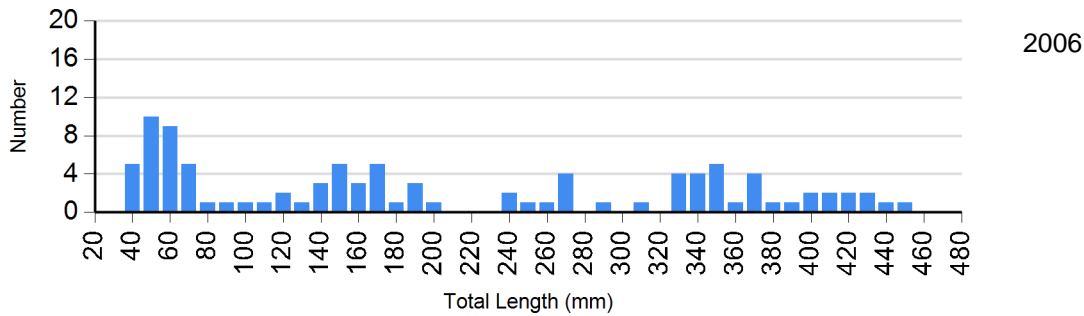
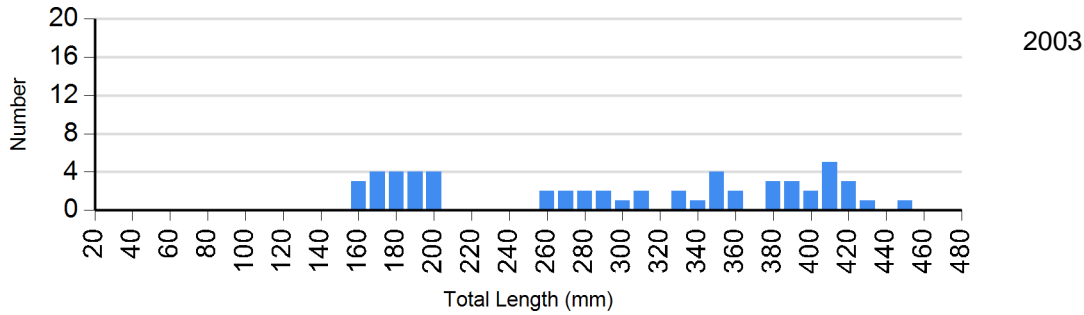
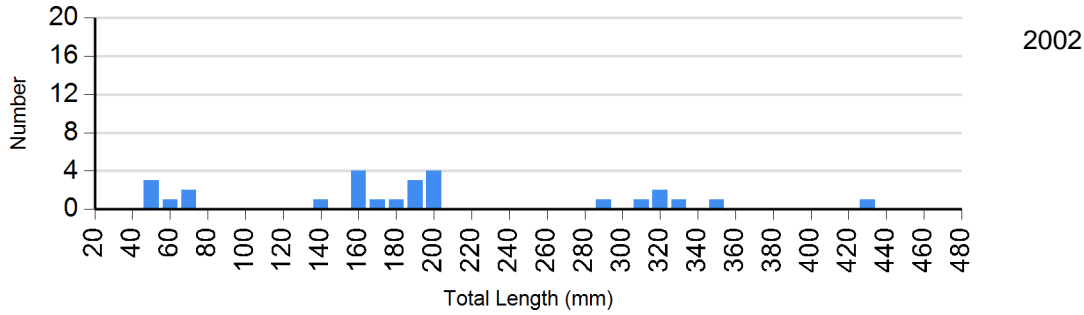
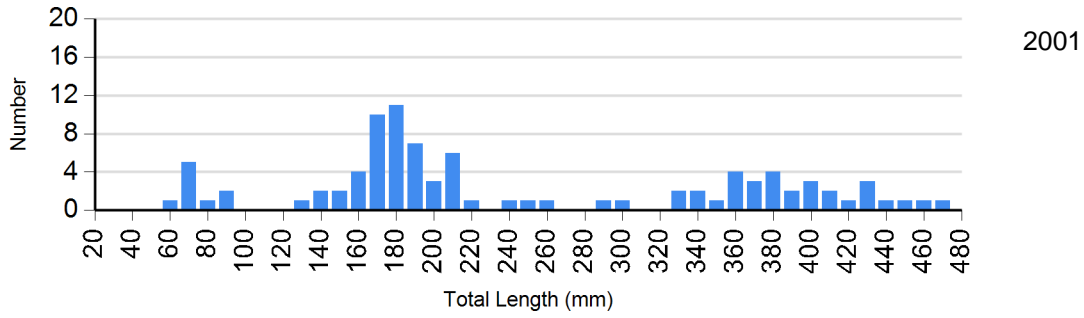
Site: 1434
Species: Longnose Dace



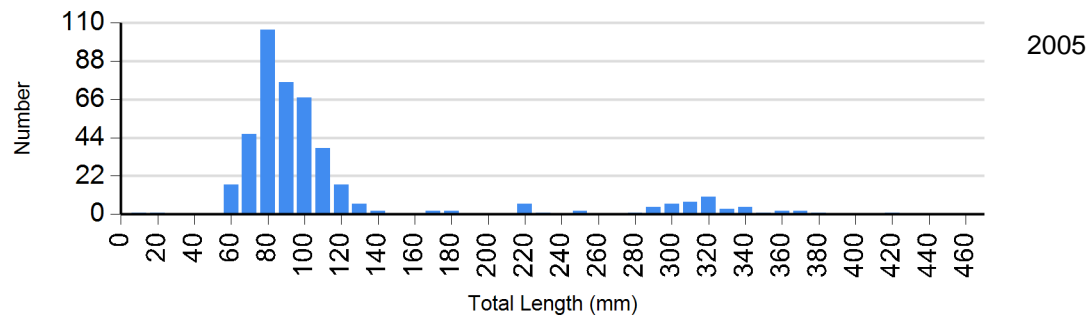
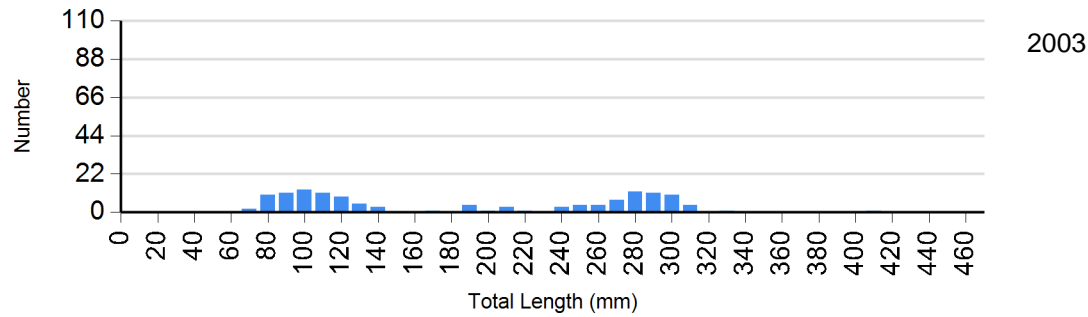
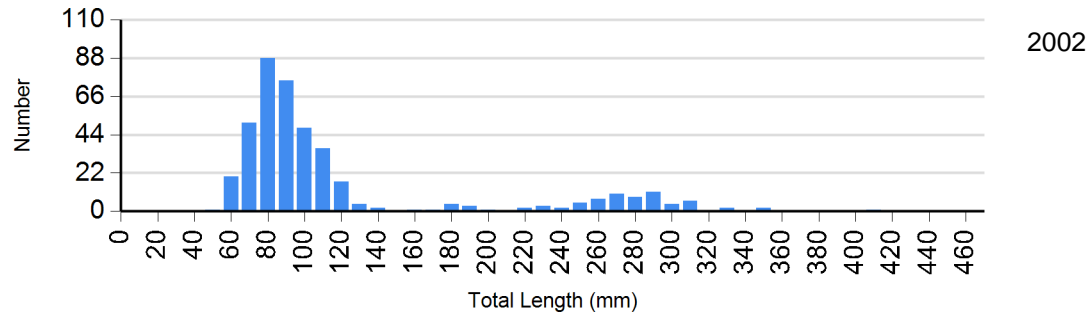
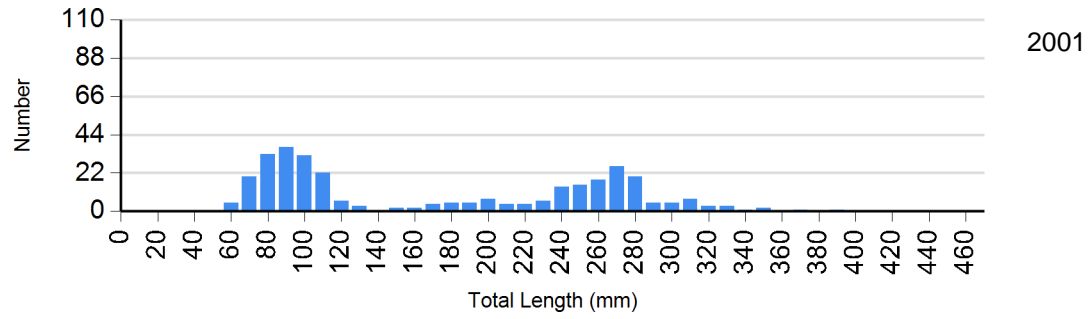
Site: 1434
Species: Rock Bass

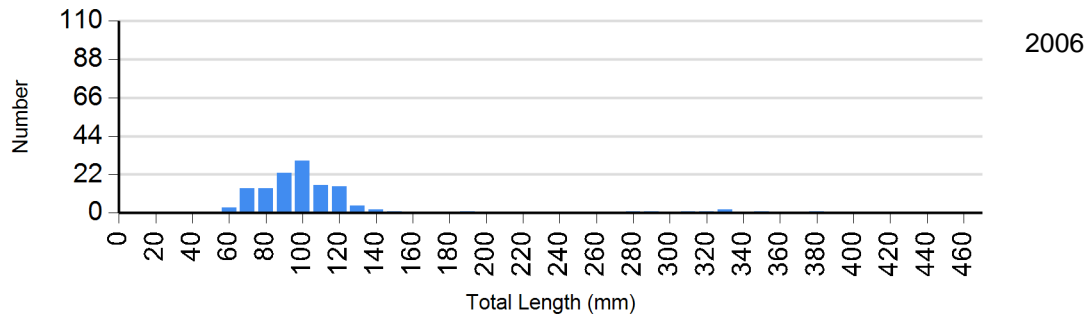


Site: 1434
Species: White Sucker

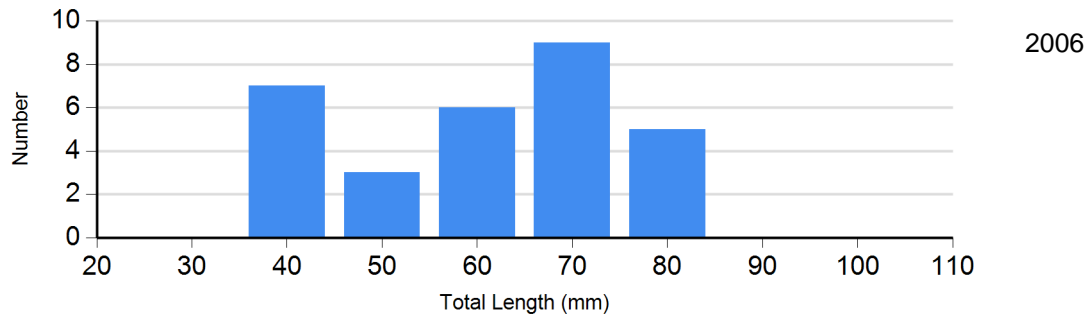
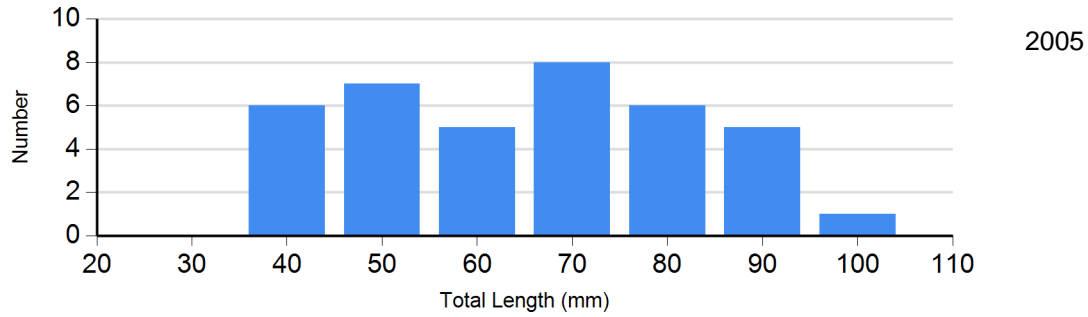
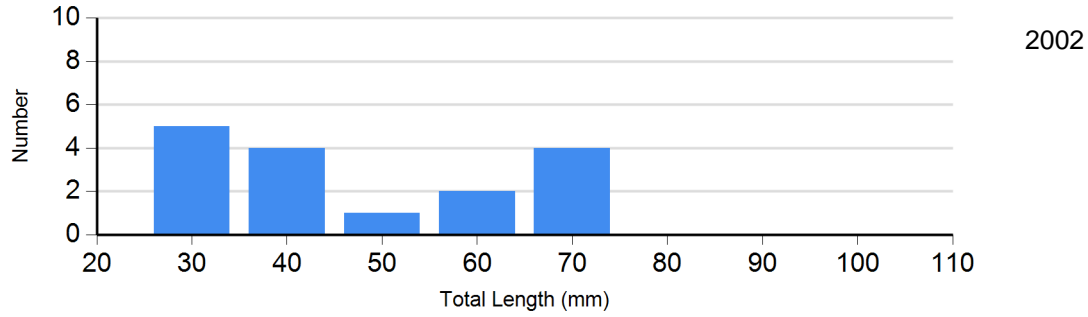


Site: 1444
Species: Brown Trout

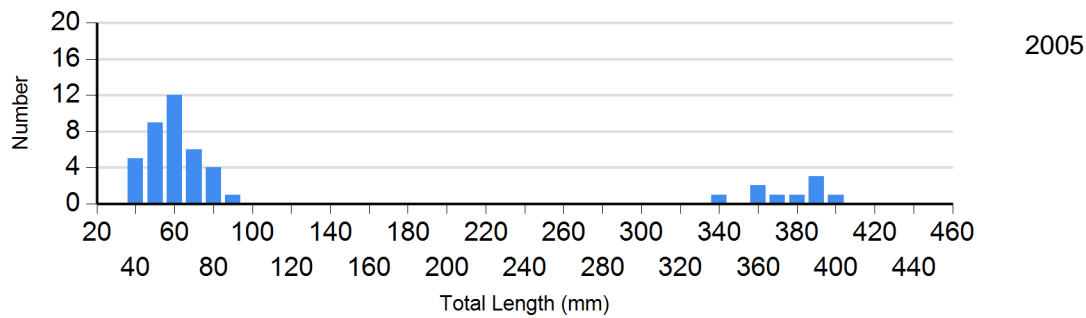
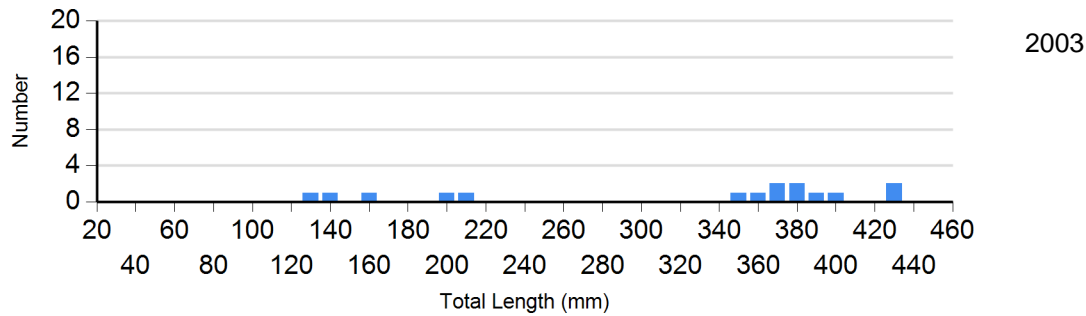
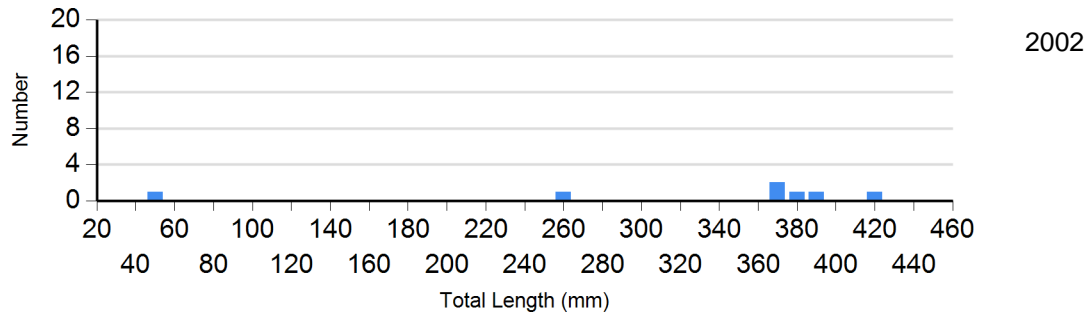
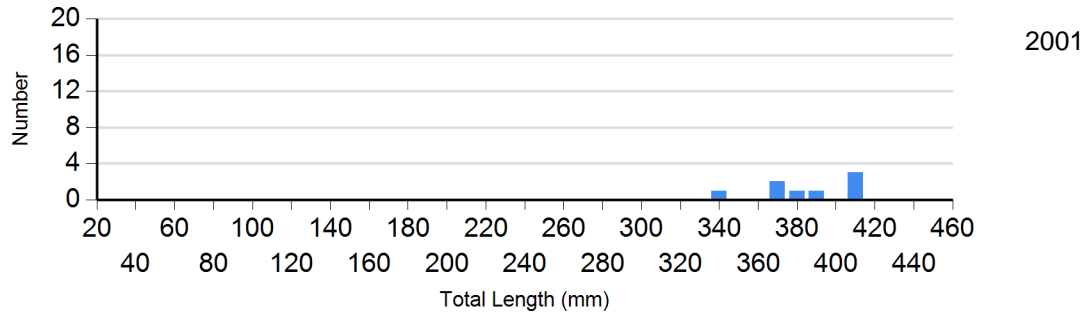


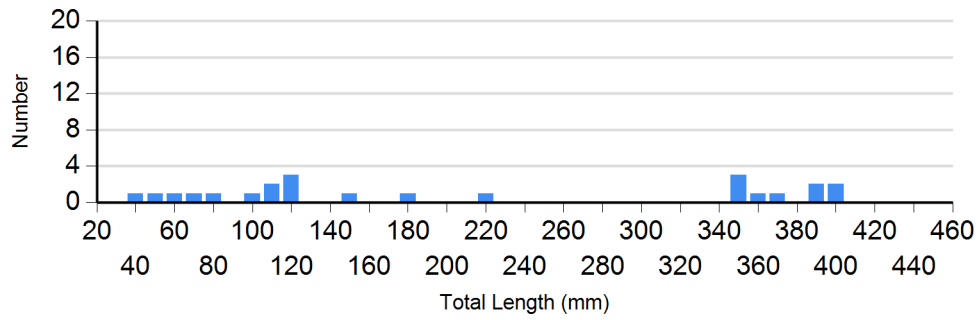


Site: 1444
Species: Longnose Dace



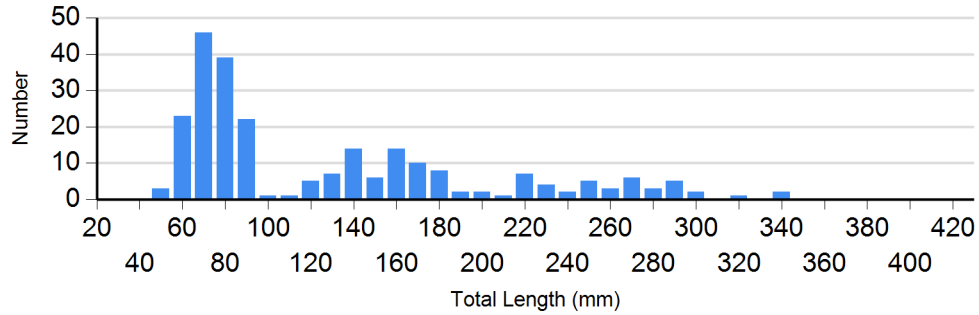
Site: 1444
Species: White Sucker



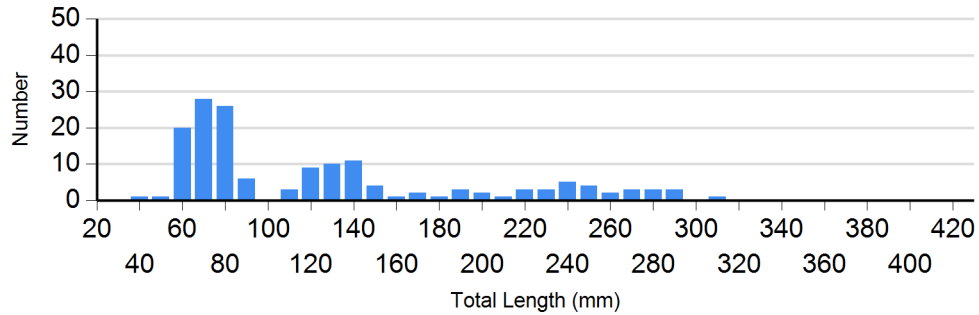


2006

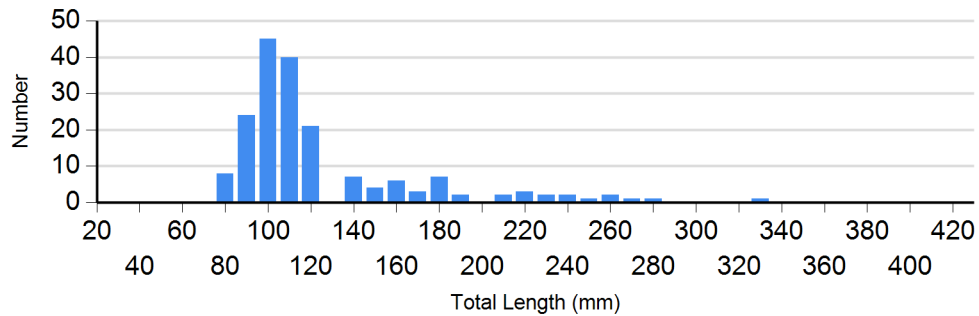
Site: 1656
Species: Brown Trout



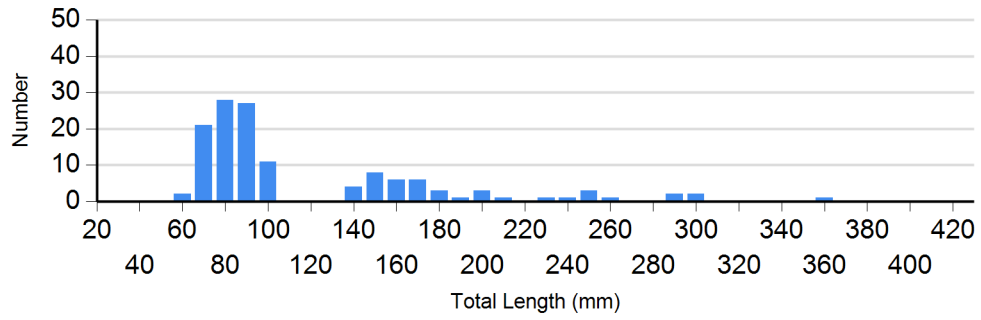
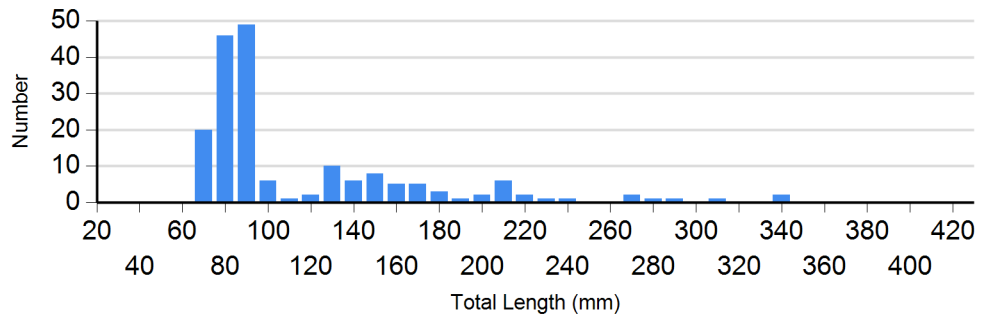
2001



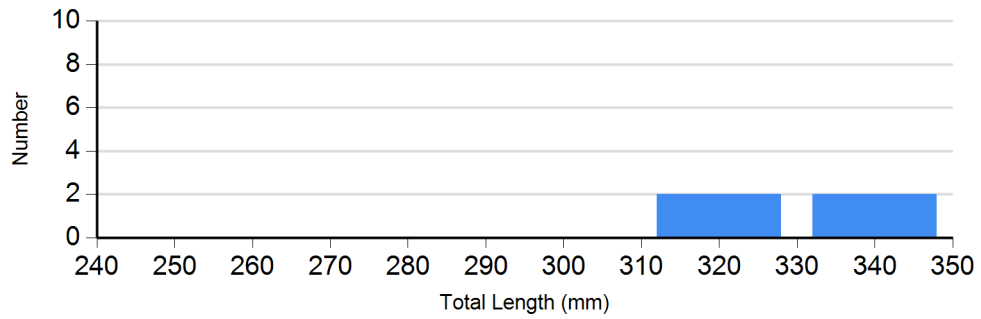
2002



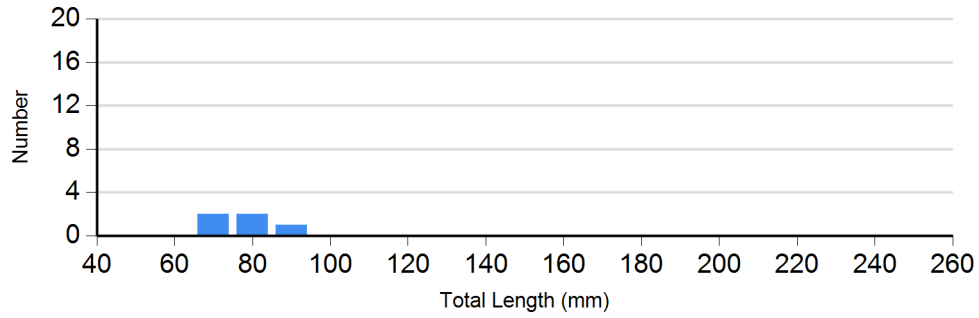
2004



Site: 1656
Species: Hatchery Rainbow Trout

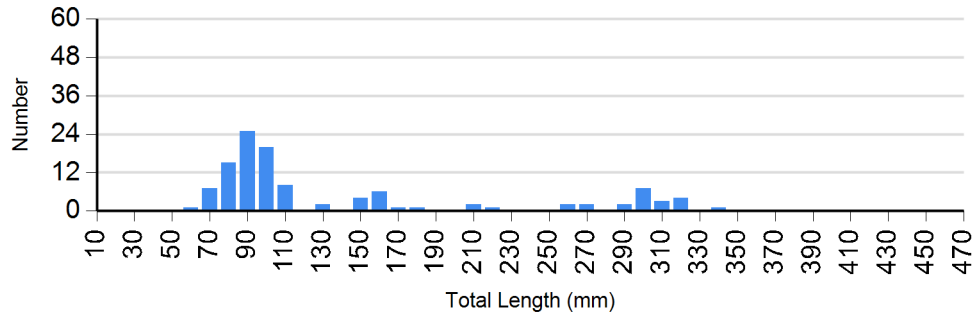


Site: 1656
Species: Rainbow Trout

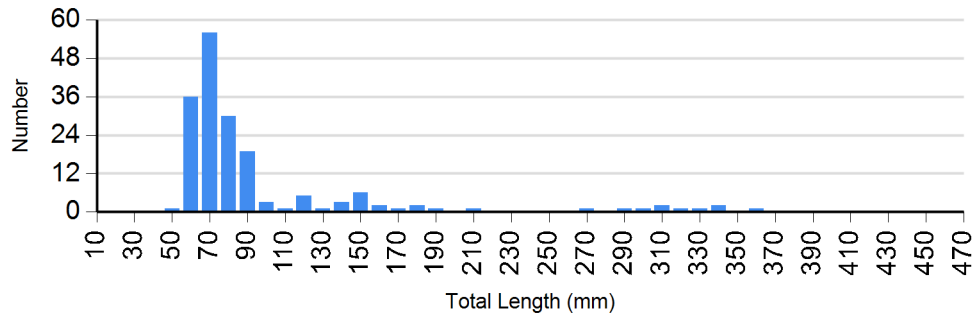


2006

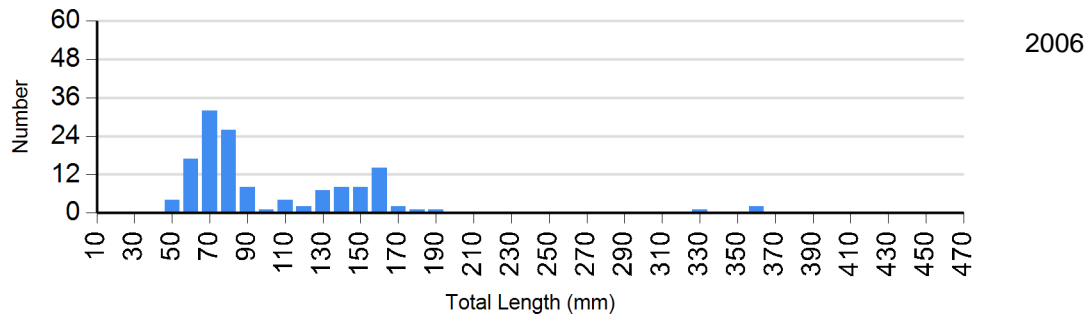
Site: 1752
Species: Brown Trout



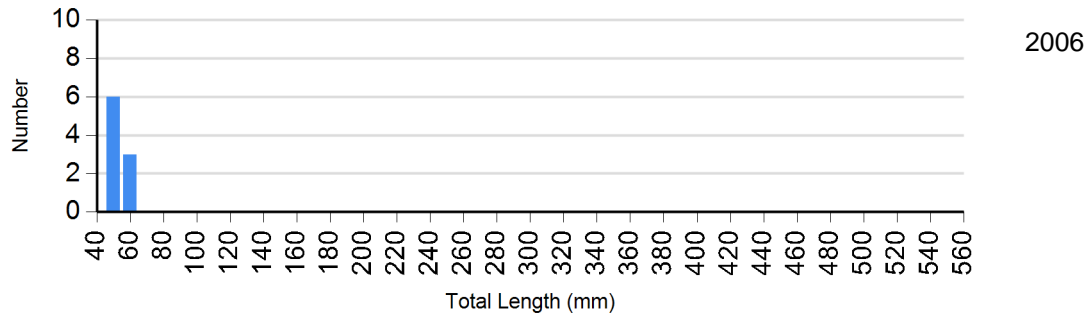
2004



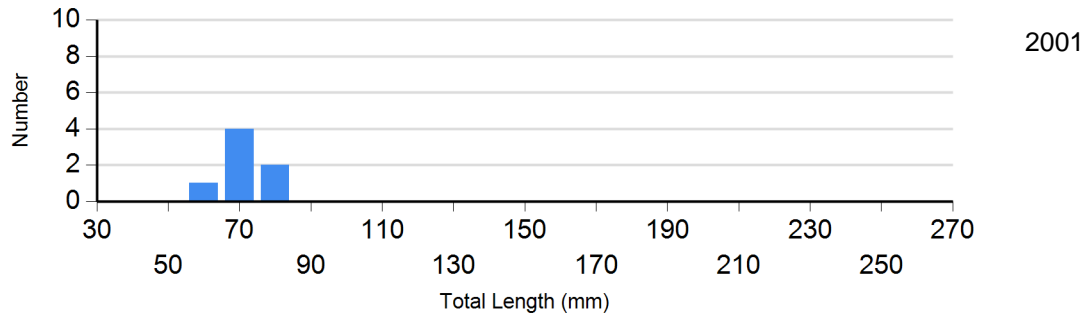
2005



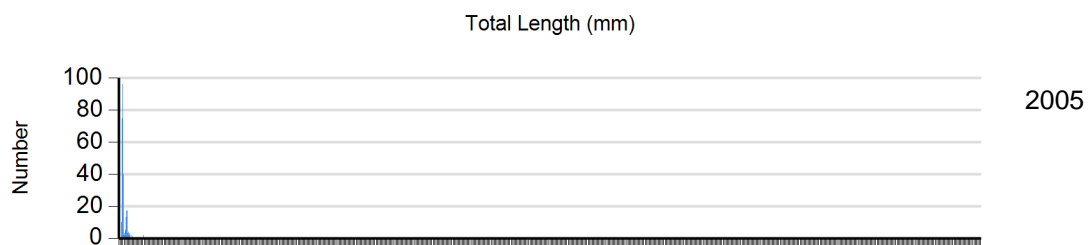
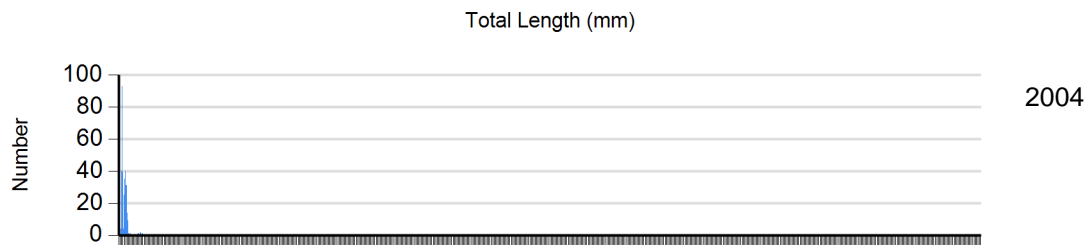
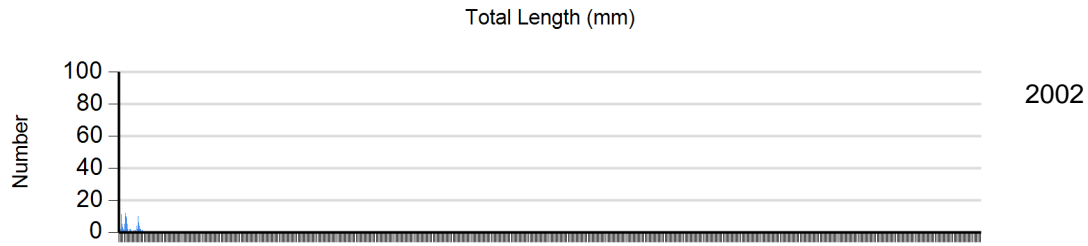
Site: 1752
Species: Rainbow Trout



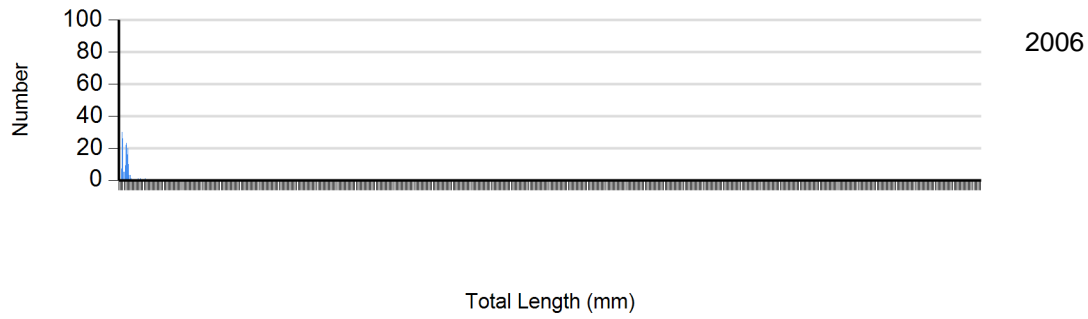
Site: 1833
Species: Brook Trout



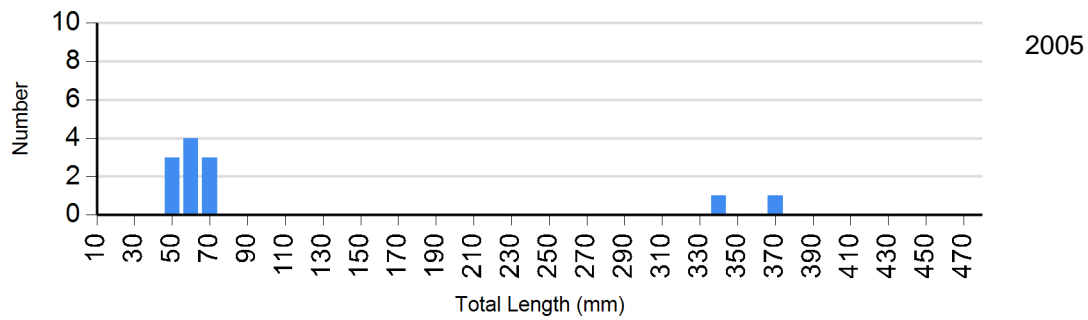
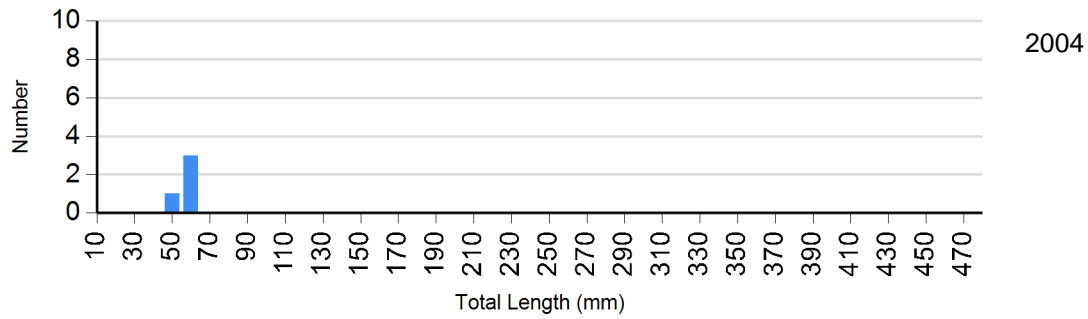
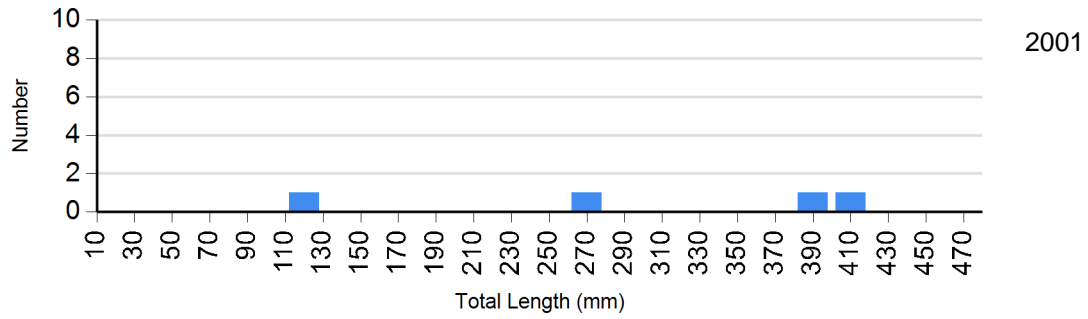
Site: 1833
Species: Brown Trout

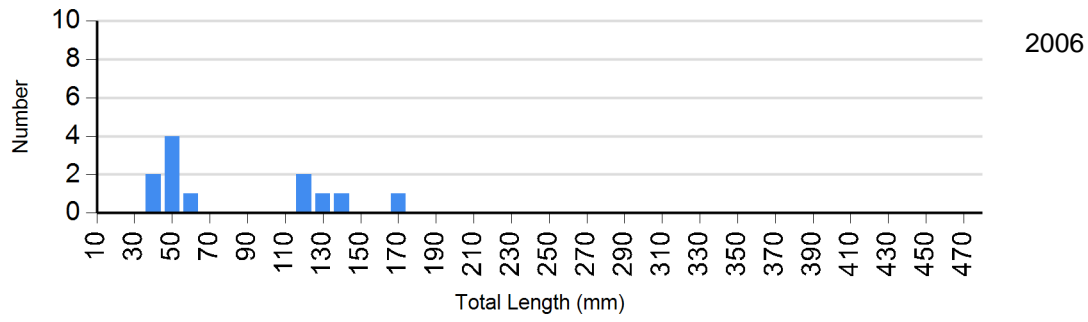


Total Length (mm)

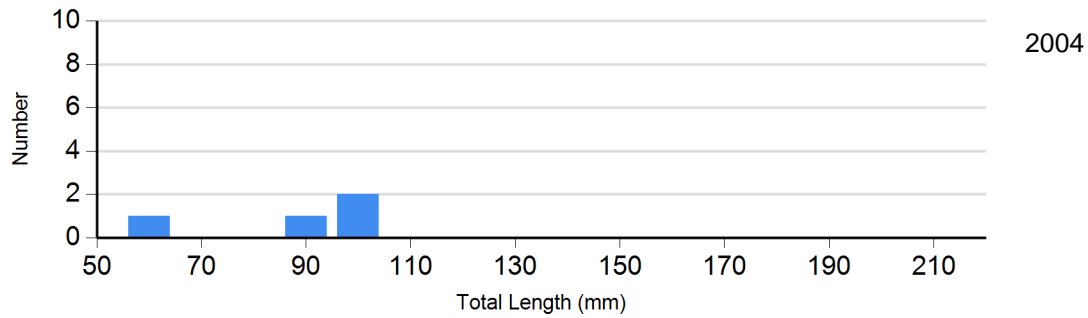
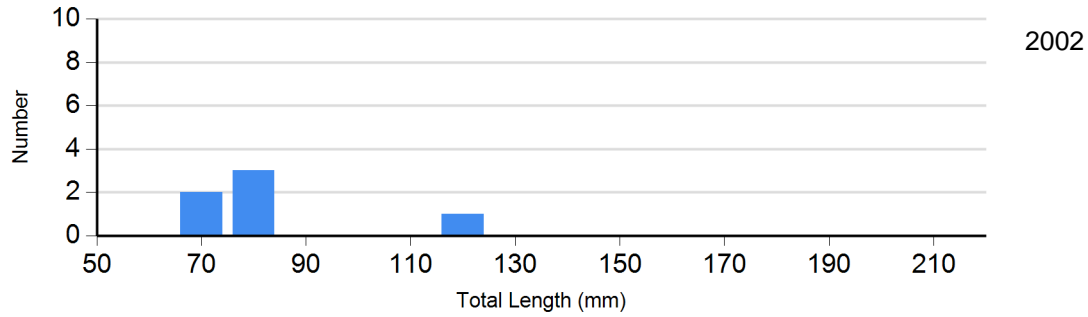
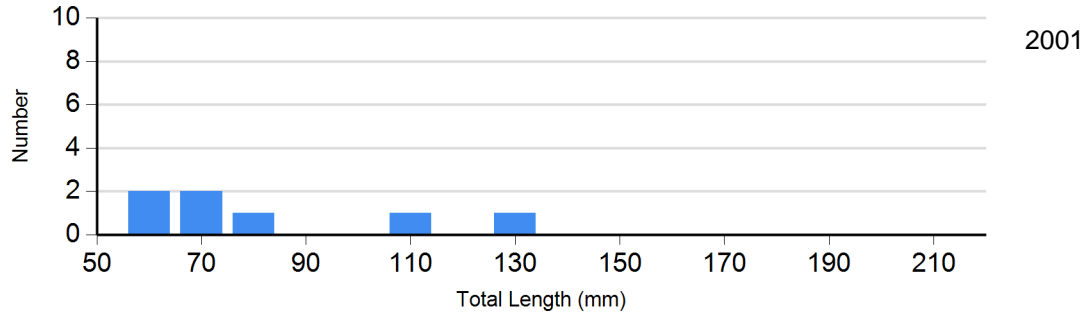


Site: 1833
Species: Rainbow Trout

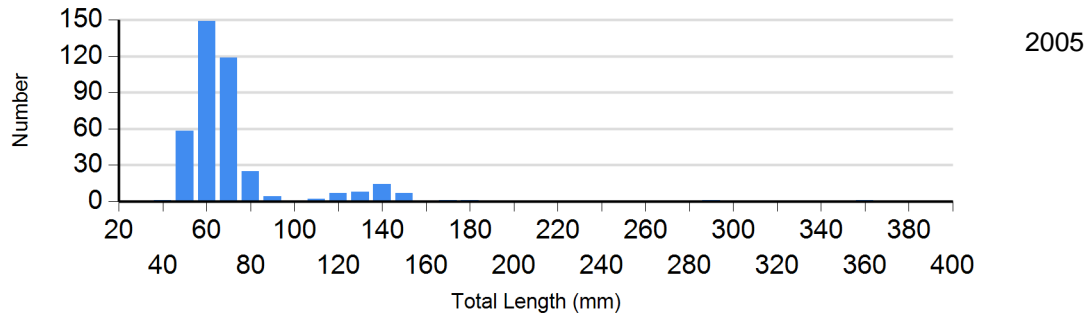
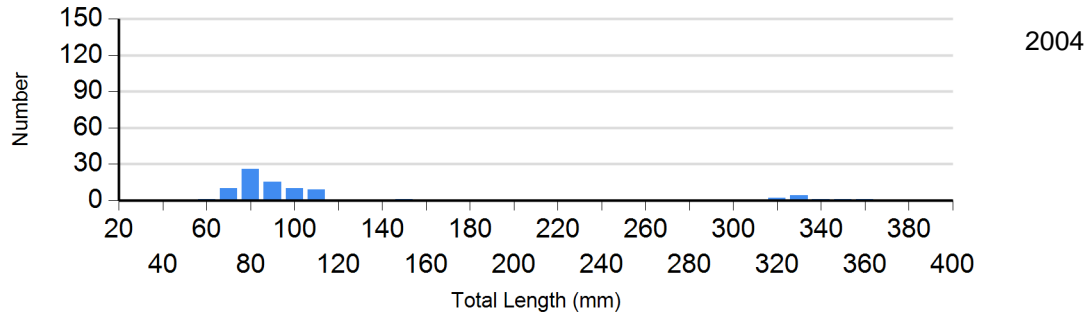
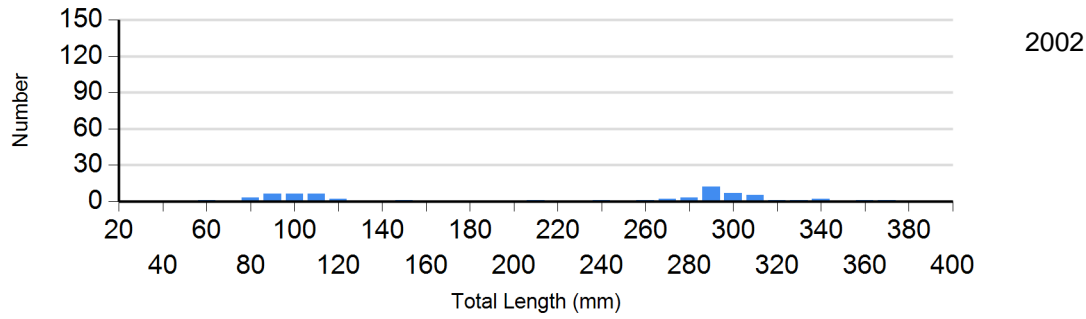
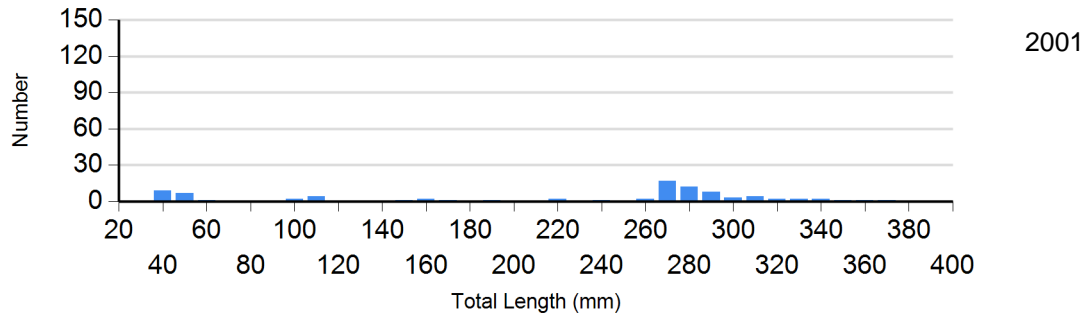


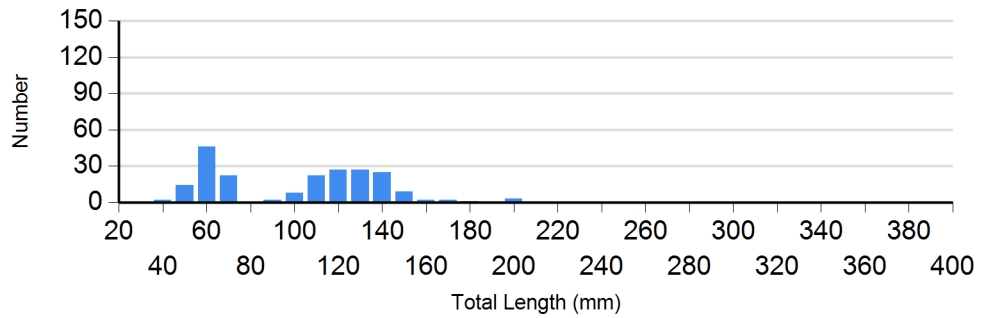


Site: 1843
Species: Brook Trout

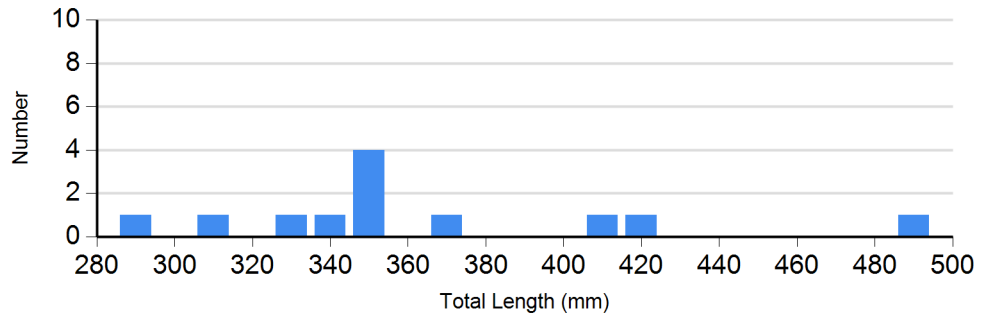


Site: 1843
Species: Brown Trout

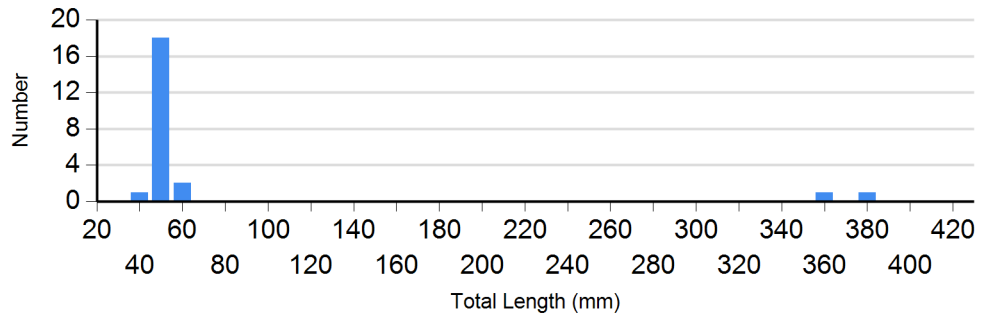


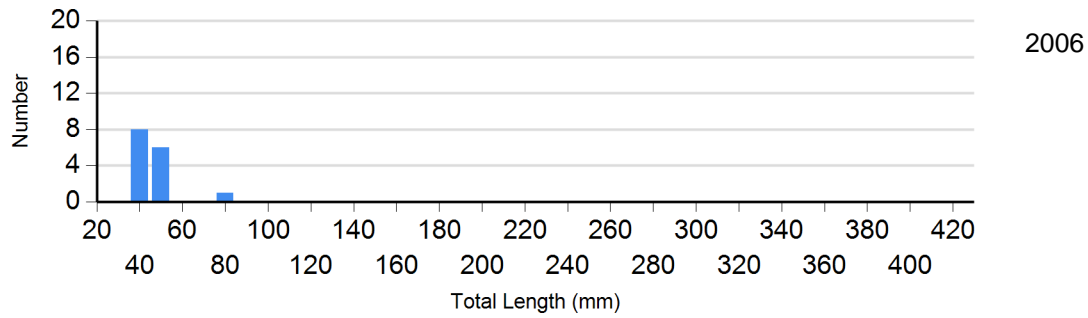


Site: 1843
Species: Hatchery Rainbow Trout

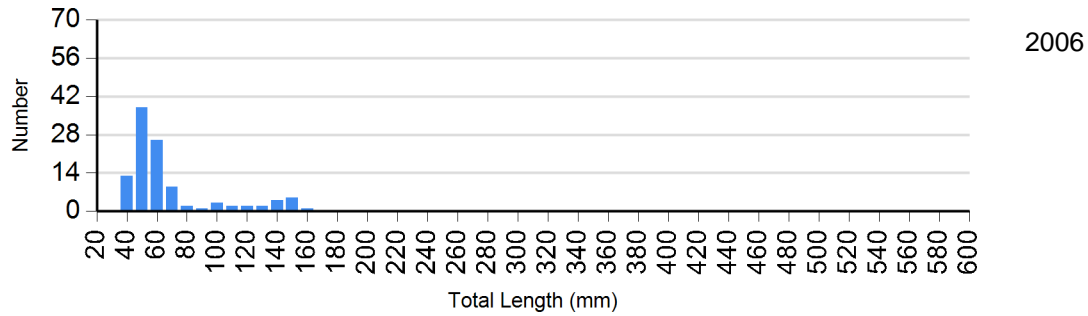


Site: 1843
Species: Rainbow Trout

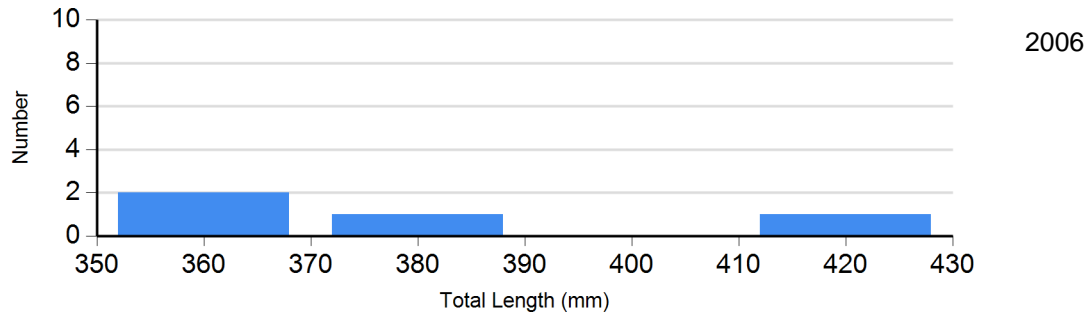




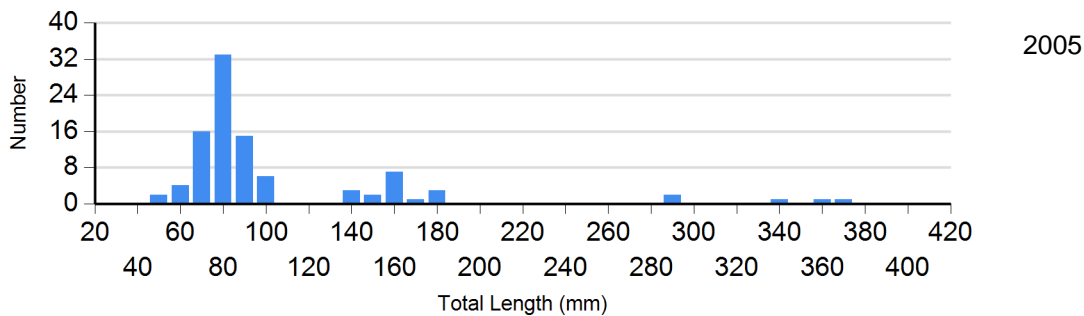
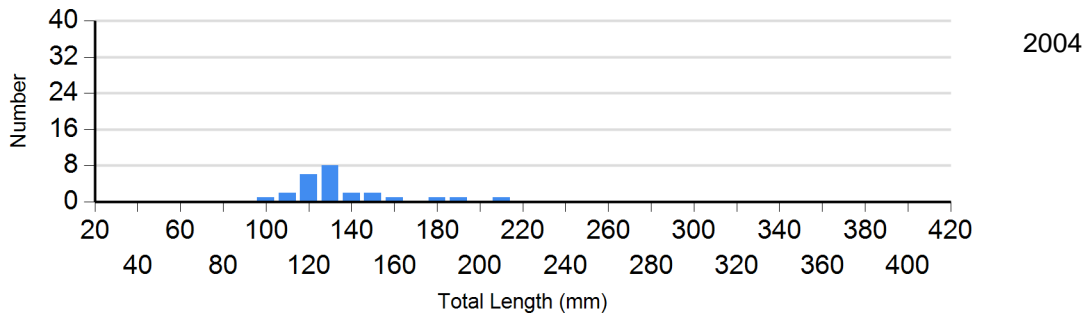
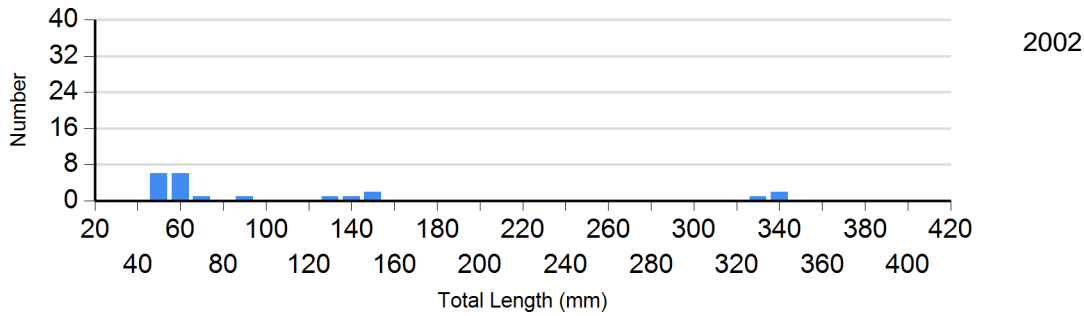
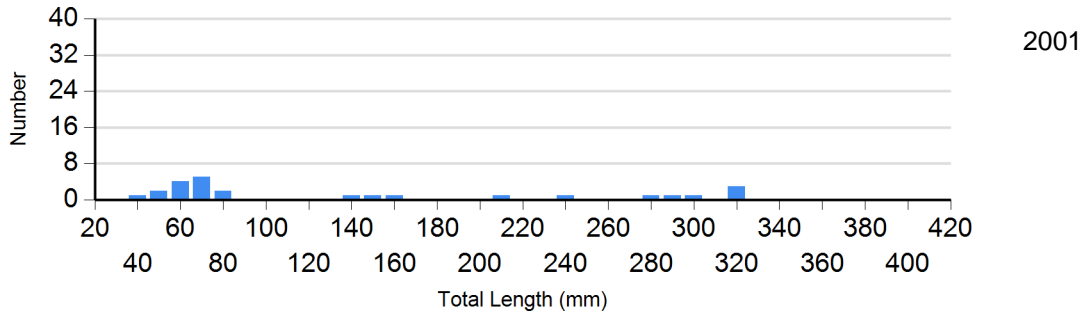
Site: 1849
Species: Brown Trout

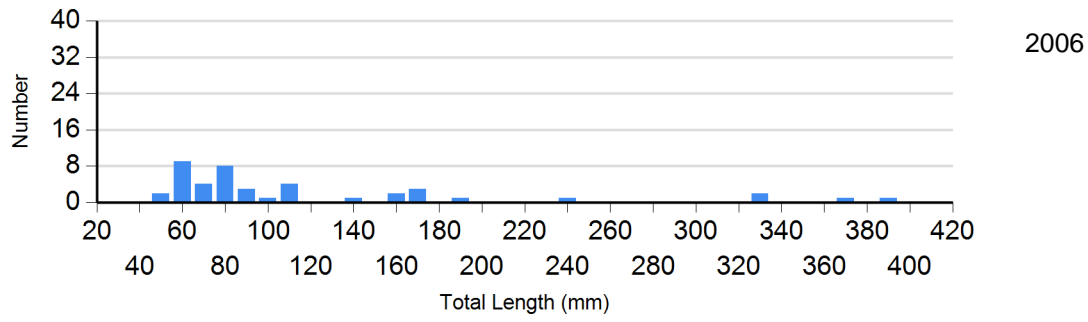


Site: 1849
Species: Hatchery Rainbow Trout

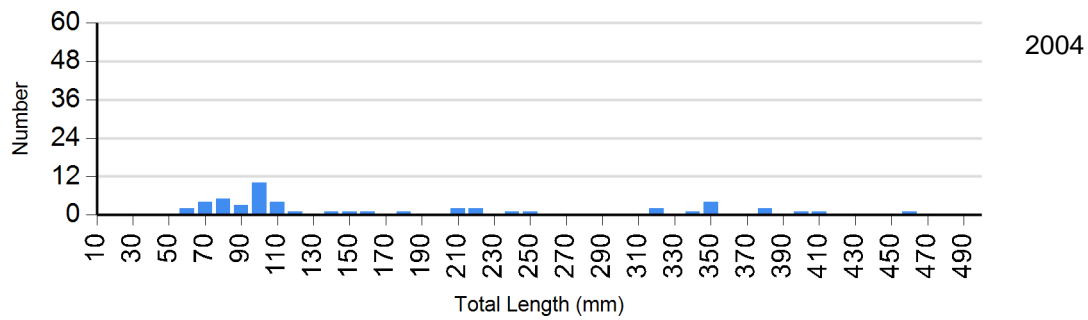
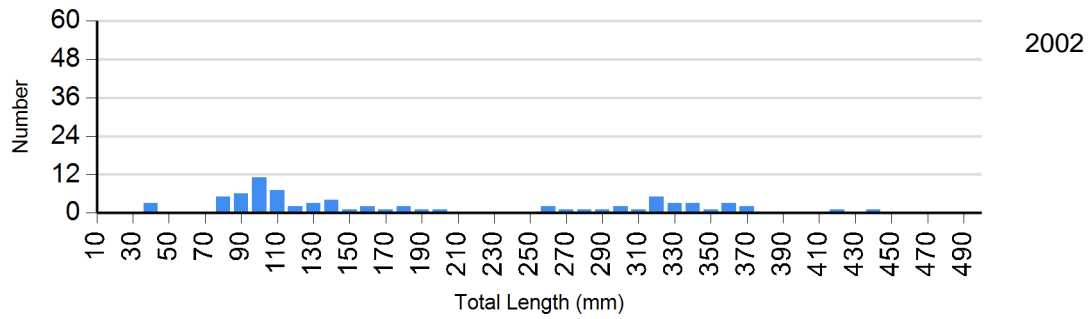
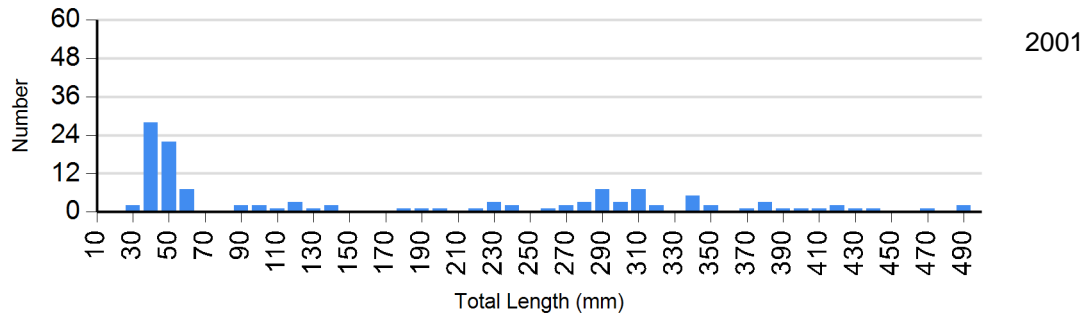


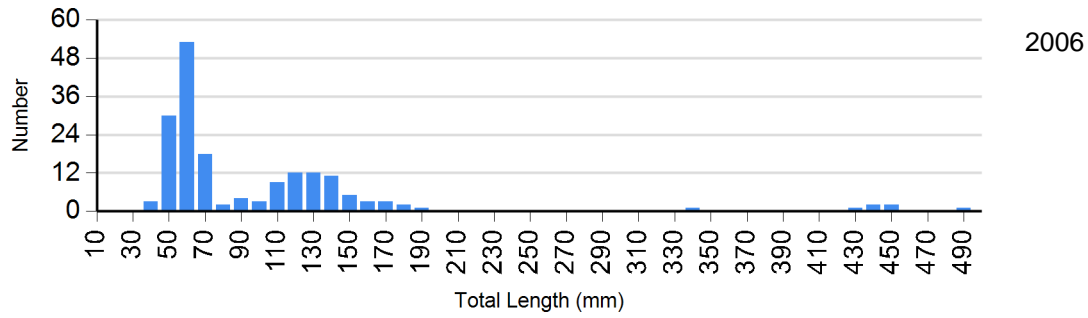
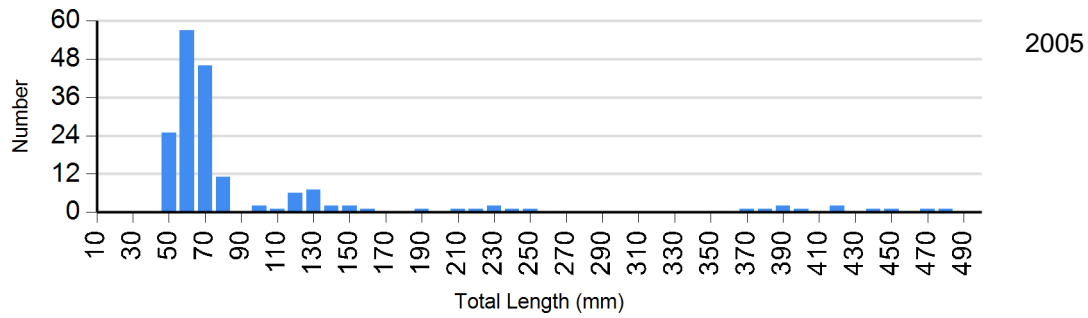
Site: 1853
Species: Brook Trout



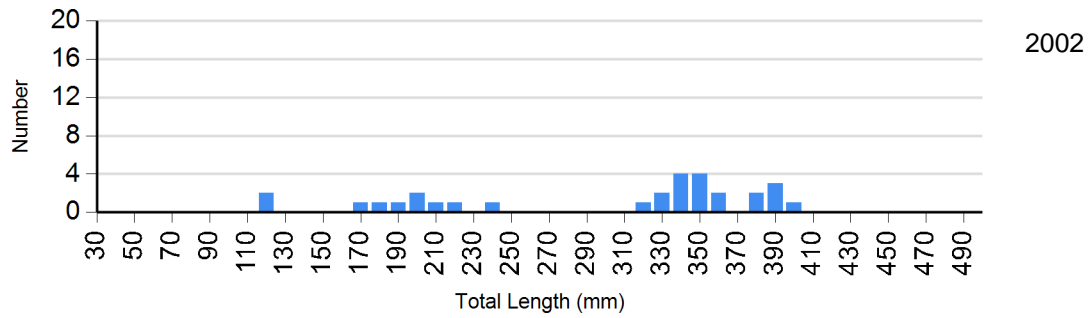
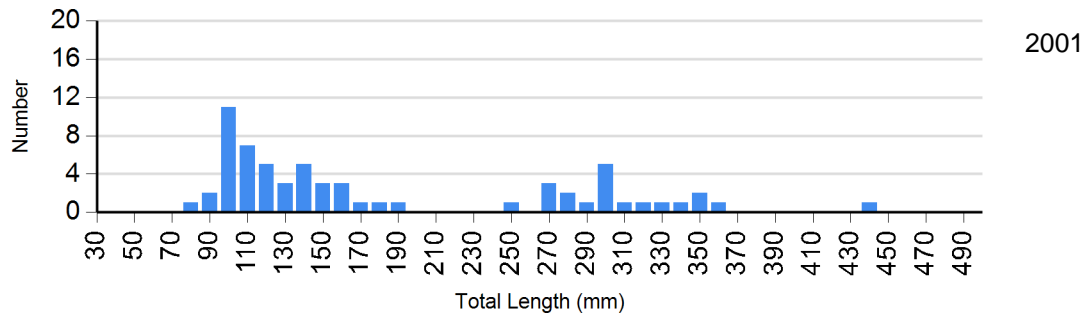


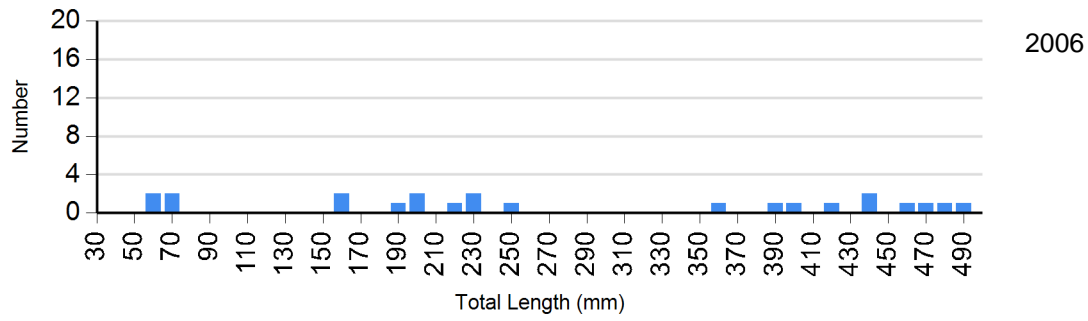
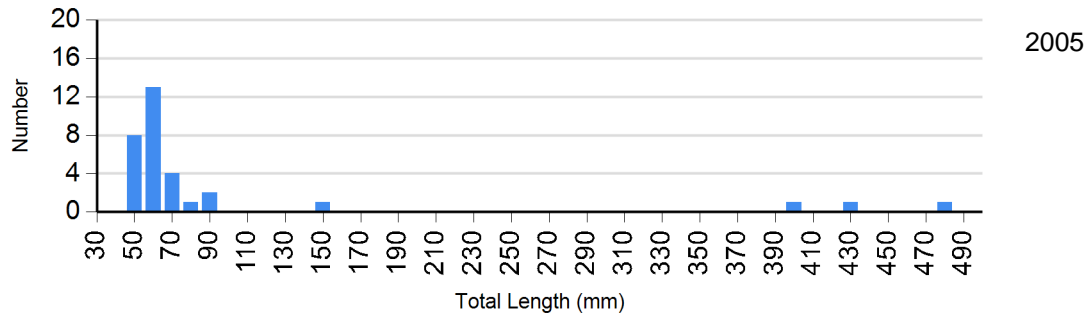
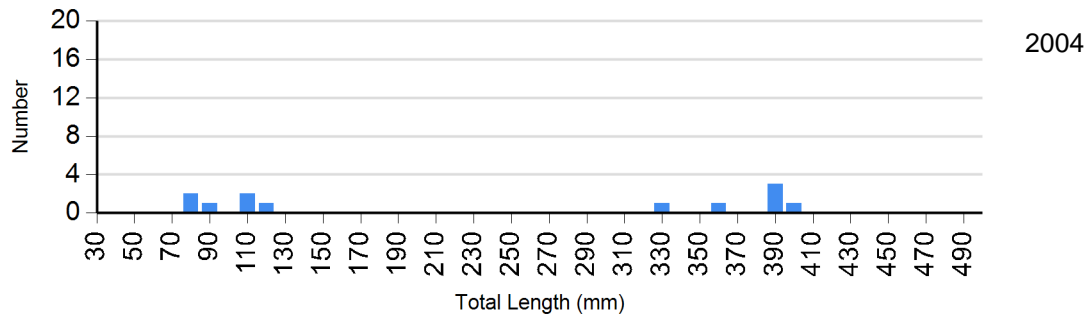
Site: 1853
Species: Brown Trout



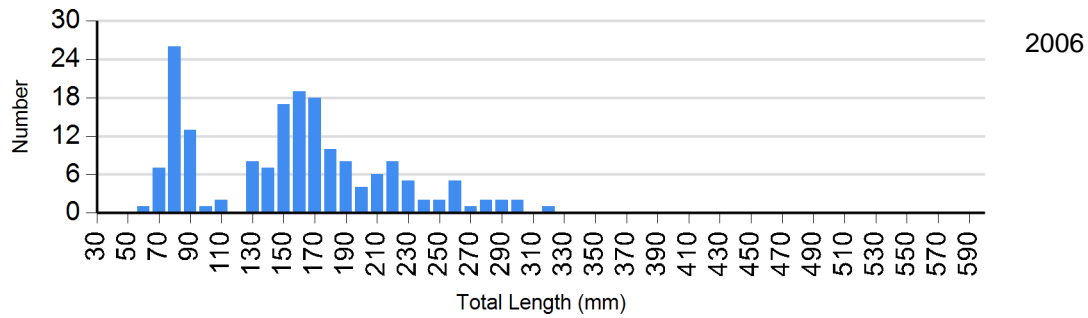


Site: 1853
Species: Rainbow Trout

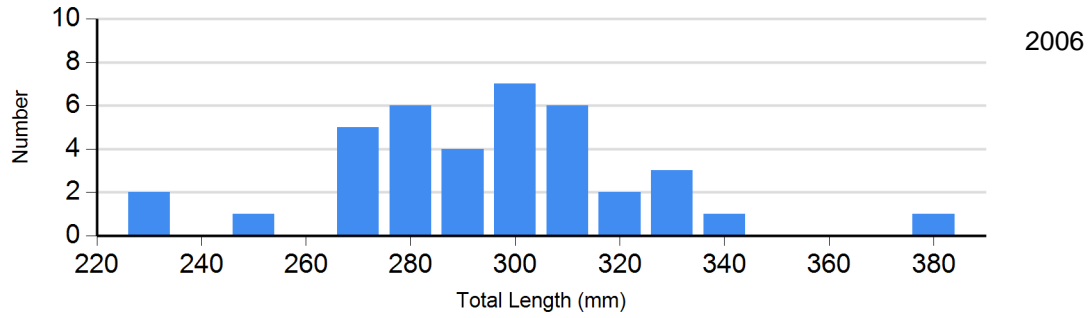




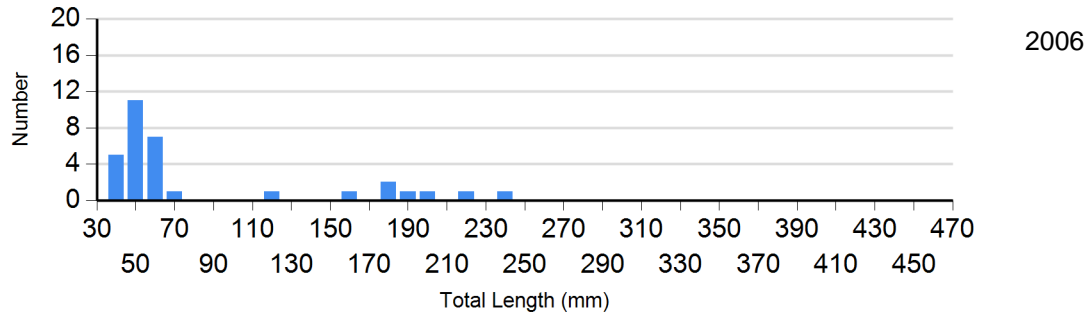
Site: 1936
Species: Brown Trout



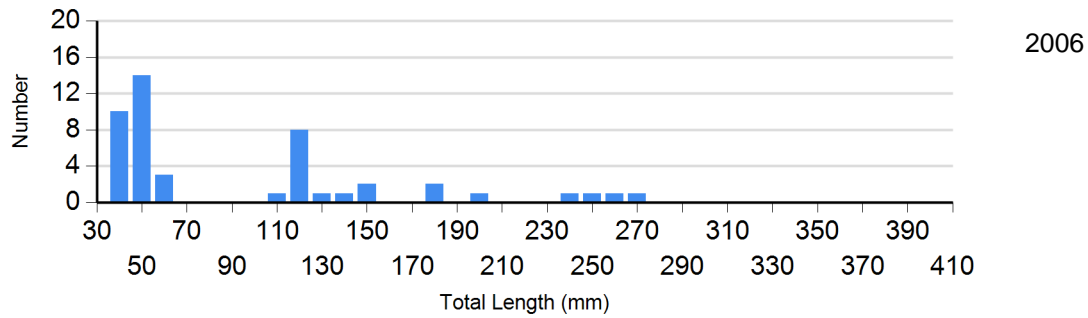
Site: 1936
Species: Hatchery Rainbow Trout



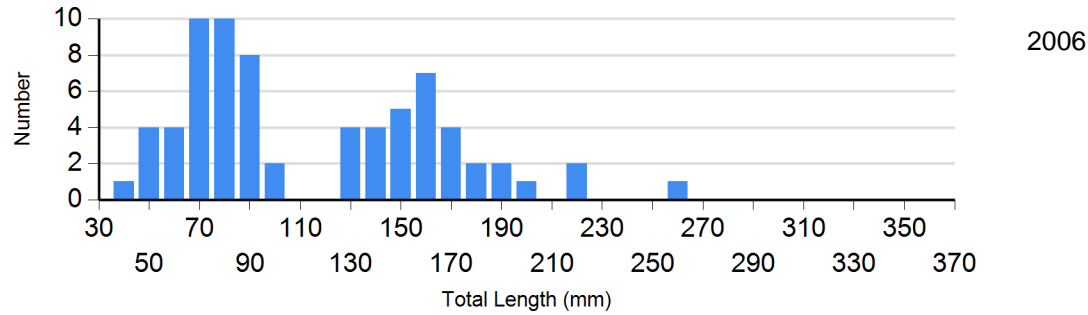
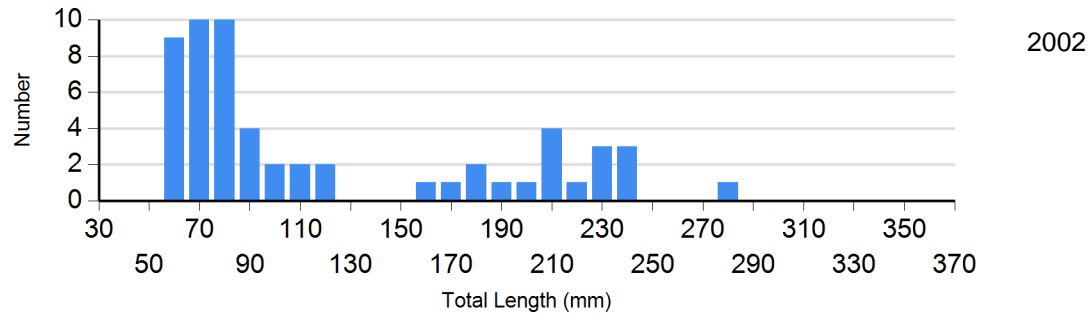
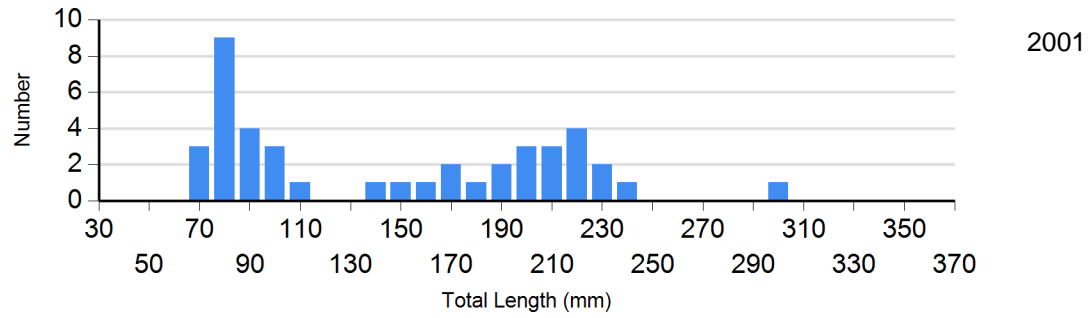
Site: 1936
Species: Rainbow Trout



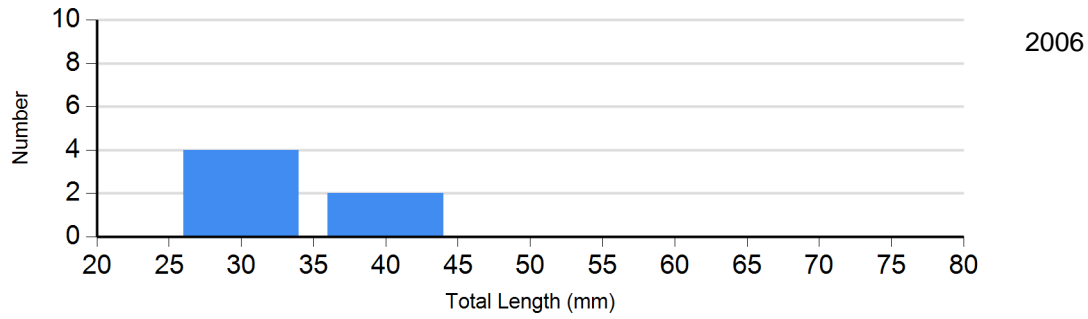
Site: 1936
Species: White Sucker



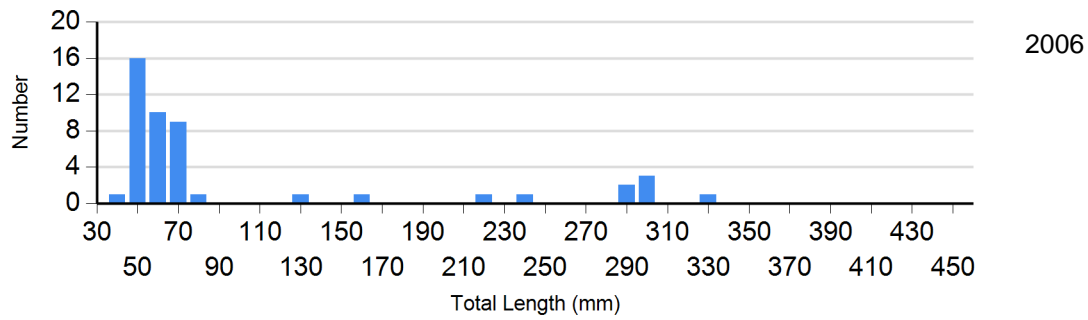
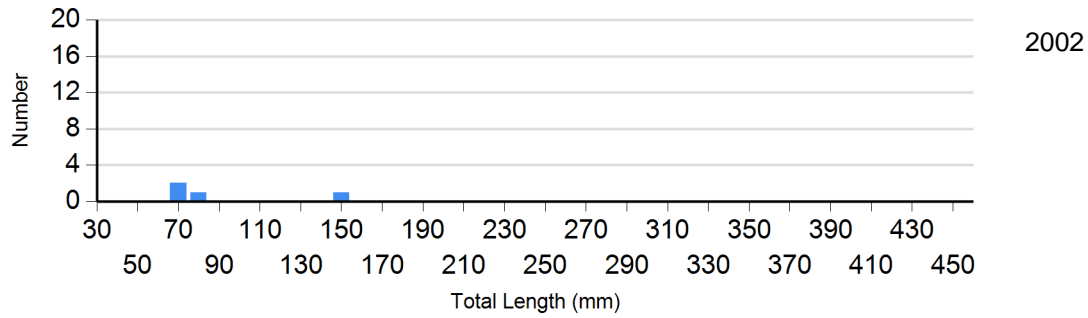
Site: 1952
Species: Brown Trout



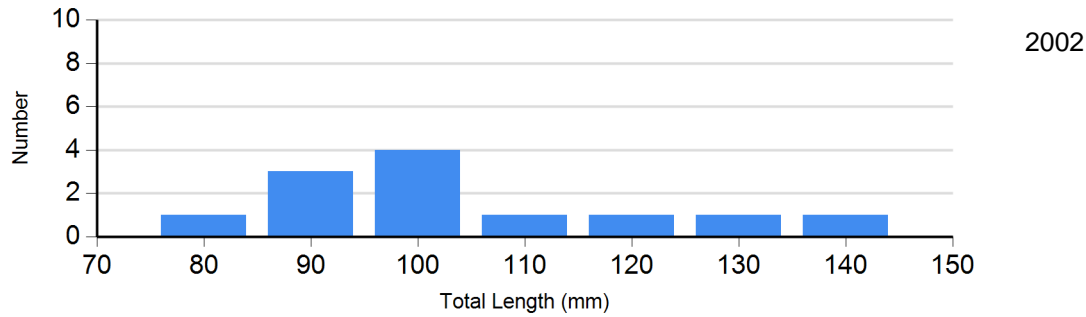
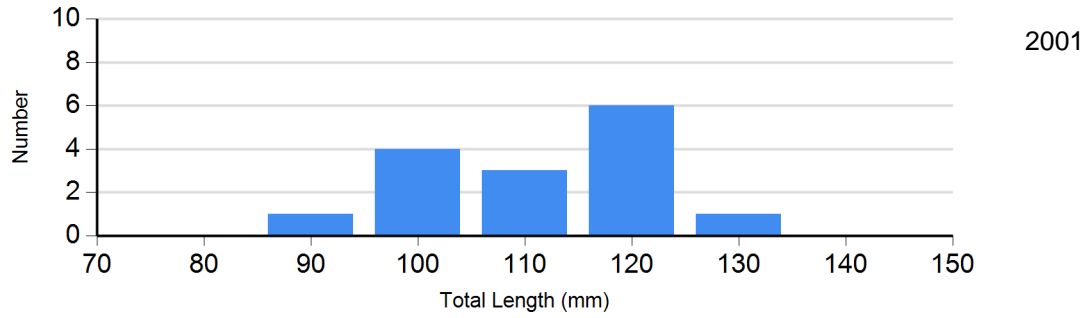
Site: 1952
Species: Creek Chub



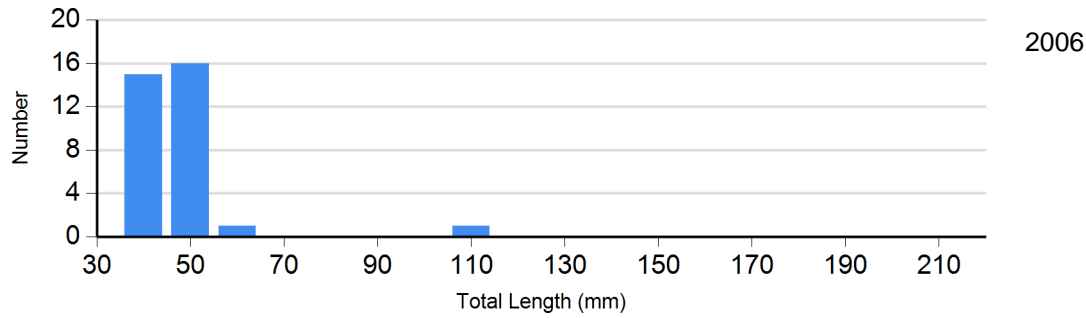
Site: 1952
Species: Rainbow Trout



Site: 1952
Species: Rock Bass



Site: 1952
Species: White Sucker



Site: 2100
Species: Brown Trout

