

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Rapid Creek, Pennington County**  
**02-0062-00**  
**2009**

Table 1. Population and Biomass Estimates for Rapid Creek

|  |                                 |                                     |
|--|---------------------------------|-------------------------------------|
| <b>Site Number:</b> 1656   | <b>Date Sampled:</b> 09/09/2009 | <b>Conductivity (umhos/cm):</b> 347 |
| <b>Site Midpoint (Latitude, Longitude):</b> 44.05452135, -103.40589571 | <b>Site Length (m):</b> 100     | <b>pH:</b> 8.8                      |
| <b>Survey Completed by:</b> South Dakota Game, Fish and Parks          | <b>Mean Width (m):</b> 8.9      | <b>Water Temperature (C):</b> 9.5   |
| <b>Stream Classification:</b> BR1, RB2                                 | <b>Number of Pass:</b> 3        | <b>Voltage:</b> 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     | 89                    | 89             | 91           | 89           | 999            | 51              | 890      | 405        | 45.55        | 1432       | 134.7            | 51.1                |
| Brown Trout   | >=200mm    | 32                    | 33             | 36           | 32           | 370            | 65              | 330      | 150        | 57.75        | 531        | 252.5            | 174.6               |
| Brown Trout   | All        | 209                   | 219            | 228          | 210          | 2458           | 236             | 2190     | 996        | 210.70       | 3524       | 165.9            | 96.0                |
| Rainbow Trout | <200mm     | 40                    | 76             | 158          | 40           | 853            | 48              | 760      | 345        | 42.60        | 1223       | 102.6            | 55.9                |
| Rainbow Trout | >=200mm    | 2                     | 1              | 2            | 2            | 11             | 1               | 10       | 5          | 1.24         | 16         | 229.5            | 124.0               |
| Rainbow Trout | All        | 42                    | 109            | 307          | 42           | 1223           | 80              | 1090     | 496        | 71.01        | 1754       | 108.6            | 65.0                |

|  |                                 |                                     |
|--|---------------------------------|-------------------------------------|
| <b>Site Number:</b> 1752   | <b>Date Sampled:</b> 09/09/2009 | <b>Conductivity (umhos/cm):</b> 343 |
| <b>Site Midpoint (Latitude, Longitude):</b> 44.07974011, -103.42967056 | <b>Site Length (m):</b> 100     | <b>pH:</b> 8.9                      |
| <b>Survey Completed by:</b> South Dakota Game, Fish and Parks          | <b>Mean Width (m):</b> 10.5     | <b>Water Temperature (C):</b> 13.0  |
| <b>Stream Classification:</b> BR2, RB2                                 | <b>Number of Pass:</b> 3        | <b>Voltage:</b> 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     | 84                    | 85             | 88           | 84           | 807            | 32              | 850      | 327        | 28.54        | 1368       | 118.6            | 39.6                |
| Brown Trout | >=200mm    | 31                    | 35             | 44           | 31           | 332            | 59              | 350      | 135        | 52.56        | 563        | 258.7            | 177.2               |
| Brown Trout | All        | 376                   | 393            | 405          | 381          | 3730           | 344             | 3930     | 1511       | 307.30       | 6323       | 156.3            | 92.3                |

|               |         |    |    |     |    |     |    |     |     |       |     |       |      |
|---------------|---------|----|----|-----|----|-----|----|-----|-----|-------|-----|-------|------|
| Rainbow Trout | <200mm  | 14 | 36 | 150 | 14 | 342 | 17 | 360 | 138 | 14.76 | 579 | 114.5 | 48.4 |
| Rainbow Trout | >=200mm | 2  | 2  | 4   | 2  | 19  | 2  | 20  | 8   | 1.58  | 32  | 377.0 | 93.0 |
| Rainbow Trout | All     | 19 | 42 | 130 | 19 | 399 | 21 | 420 | 161 | 18.98 | 676 | 147.3 | 53.3 |

**Site Number:** 1833  
**Site Midpoint (Latitude, Longitude):** 44.07611720, -103.47551527  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BR3, RB2

**Date Sampled:** 09/11/2009      **Conductivity (umhos/cm):** 339  
**Site Length (m):** 100  
**Mean Width (m):** 9.6      **pH:** 8.6  
**Number of Pass:** 4      **Water Temperature (C):** 10.0  
**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) |
|---------------|------------|-----------------------|----------------|--------------|--------------|----------------|-----------------|----------|------------|--------------|------------|------------------|---------------------|
| Brown Trout   | <200mm     | 99                    | 184            | 301          | 99           | 1915           | 61              | 1840     | 776        | 54.80        | 2961       | 101.8            | 32.1                |
| Brown Trout   | >=200mm    | 4                     | 4              | 4            | 4            | 42             | 18              | 40       | 17         | 15.71        | 64         | 394.8            | 422.7               |
| Brown Trout   | All        | 190                   | 570            | 1157         | 190          | 5932           | 306             | 5700     | 2402       | 273.21       | 9171       | 113.2            | 51.6                |
| Rainbow Trout | <200mm     | 12                    | 28             | 108          | 12           | 291            | 6               | 280      | 118        | 5.79         | 451        | 66.3             | 22.3                |
| Rainbow Trout | >=200mm    | 1                     | 1              | 1            | 1            | 10             | 9               | 10       | 4          | 8.43         | 16         | 435.0            | 907.0               |
| Rainbow Trout | All        | 13                    | 22             | 55           | 13           | 229            | 46              | 220      | 93         | 40.72        | 354        | 94.6             | 199.2               |

**Site Number:** 1843  
**Site Midpoint (Latitude, Longitude):** 44.07203156, -103.47488319  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BR3, RB2

**Date Sampled:** 09/11/2009      **Conductivity (umhos/cm):** 342  
**Site Length (m):** 100  
**Mean Width (m):** 8.9      **pH:** 8.6  
**Number of Pass:** 3      **Water Temperature (C):** 9.6  
**Voltage:** 250

| Species     | Size Class | Total Number Captured | Est. # in site | Upper 95% CI | Lower 95% CI | # per Hectacre | Kg per Hectacre | # per Km | # per Acre | lb. per Acre | # per Mile | Mean Length (mm) | Mean Weight (grams) |
|-------------|------------|-----------------------|----------------|--------------|--------------|----------------|-----------------|----------|------------|--------------|------------|------------------|---------------------|
| Brown Trout | <200mm     | 47                    | 47             | 48           | 47           | 528            | 13              | 470      | 214        | 11.88        | 756        | 76.4             | 25.2                |
| Brown Trout | >=200mm    | 1                     | 1              | 2            | 1            | 11             | 1               | 10       | 5          | 0.94         | 16         | 206.0            | 94.0                |
| Brown Trout | All        | 87                    | 90             | 95           | 87           | 1011           | 30              | 900      | 410        | 26.64        | 1448       | 79.1             | 29.5                |

|               |         |    |    |    |    |     |    |     |    |       |     |       |       |
|---------------|---------|----|----|----|----|-----|----|-----|----|-------|-----|-------|-------|
| Rainbow Trout | <200mm  | 12 | 12 | 12 | 12 | 135 | 2  | 120 | 55 | 1.86  | 193 | 110.0 | 15.4  |
| Rainbow Trout | >=200mm | 2  | 2  | 4  | 2  | 22  | 19 | 20  | 9  | 16.98 | 32  | 408.5 | 846.5 |
| Rainbow Trout | All     | 14 | 14 | 15 | 14 | 157 | 21 | 140 | 64 | 18.84 | 225 | 152.6 | 134.1 |

**Site Number:** 1849  
**Site Midpoint (Latitude, Longitude):** 44.07572600, -103.47938063  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BK0, BR2, RB1

**Date Sampled:** 09/08/2009      **Conductivity (umhos/cm):** 334  
**Site Length (m):** 100      **pH:** 8.4  
**Mean Width (m):** 8.8      **Water Temperature (C):** 10.3  
**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) |
|---------------|------------|-----------------------|----------------|--------------|--------------|----------------|-----------------|----------|------------|--------------|------------|------------------|---------------------|
| Brook Trout   | <200mm     | 12                    | 12             | 13           | 12           | 136            | 3               | 120      | 55         | 2.30         | 193        | 77.8             | 19.0                |
| Brook Trout   | All        | 12                    | 12             | 13           | 12           | 136            | 3               | 120      | 55         | 2.30         | 193        | 77.8             | 19.0                |
| Brown Trout   | <200mm     | 121                   | 120            | 135          | 121          | 1358           | 35              | 1200     | 550        | 31.21        | 1931       | 84.1             | 25.7                |
| Brown Trout   | >=200mm    | 14                    | 25             | 67           | 14           | 283            | 144             | 250      | 115        | 128.65       | 402        | 355.4            | 509.3               |
| Brown Trout   | All        | 135                   | 134            | 150          | 135          | 1516           | 190             | 1340     | 614        | 169.65       | 2156       | 112.2            | 125.3               |
| Rainbow Trout | <200mm     | 6                     | 6              | 7            | 6            | 68             | 1               | 60       | 28         | 1.03         | 97         | 103.8            | 17.0                |
| Rainbow Trout | >=200mm    | 9                     | 9              | 9            | 9            | 102            | 89              | 90       | 41         | 79.91        | 145        | 433.8            | 878.7               |
| Rainbow Trout | All        | 15                    | 15             | 16           | 15           | 170            | 97              | 150      | 69         | 86.53        | 241        | 301.8            | 570.9               |

**Site Number:** 1853  
**Site Midpoint (Latitude, Longitude):** 44.07655505, -103.48401117  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BK3, BR3, RB0

**Date Sampled:** 09/08/2009      **Conductivity (umhos/cm):** 332  
**Site Length (m):** 100      **pH:** 8.8  
**Mean Width (m):** 11.7      **Water Temperature (C):** 9.9  
**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) |
|-------------|------------|-----------------------|----------------|--------------|--------------|----------------|-----------------|----------|------------|--------------|------------|------------------|---------------------|
| Brook Trout | <200mm     | 27                    | 50             | 113          | 27           | 426            | 14              | 500      | 173        | 12.17        | 805        | 71.6             | 32.0                |

|               |         |    |    |    |    |     |     |     |     |        |     |       |        |
|---------------|---------|----|----|----|----|-----|-----|-----|-----|--------|-----|-------|--------|
| Brook Trout   | >=200mm | 1  | 1  | 1  | 1  | 9   | 9   | 10  | 3   | 7.80   | 16  | 410.0 | 1025.0 |
| Brook Trout   | All     | 28 | 47 | 94 | 28 | 400 | 212 | 470 | 162 | 188.97 | 756 | 83.7  | 528.5  |
| Brown Trout   | <200mm  | 50 | 49 | 60 | 50 | 418 | 10  | 490 | 169 | 9.12   | 788 | 88.5  | 24.5   |
| Brown Trout   | >=200mm | 3  | 3  | 3  | 3  | 26  | 5   | 30  | 10  | 4.47   | 48  | 251.7 | 195.7  |
| Brown Trout   | All     | 53 | 52 | 62 | 53 | 443 | 18  | 520 | 179 | 16.23  | 837 | 97.8  | 41.0   |
| Rainbow Trout | <200mm  | 4  | 4  | 6  | 4  | 34  | 1   | 40  | 14  | 1.02   | 64  | 130.5 | 33.7   |
| Rainbow Trout | All     | 4  | 4  | 6  | 4  | 34  | 1   | 40  | 14  | 1.02   | 64  | 130.5 | 33.7   |

---

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 |   |
|--|---|
| <b>Class BR1</b>                                   | Number of wild Brown Trout exceeds 150 per acre           |
| <b>Class BR2</b>                                   | Number of wild Brook Trout ranges from 25 to 150 per acre |
| <b>Class BR3</b>                                   | Number of wild Brown Trout is less than 25 per acre       |
| <b>Class BK1</b>                                   | Number of wild Brook Trout exceeds 150 per acre           |
| <b>Class BK2</b>                                   | Number of wild Brook Trout ranges from 25 to 150 per acre |
| <b>Class BK3</b>                                   | Number of wild Brook Trout is less than 25 per acre       |
| <b>Class RB1</b>                                   | Number of wild Rainbow Trout exceeds 25 per acre          |
| <b>Class RB2</b>                                   | Number of wild Rainbow Trout is less than 25 per acre     |

Table 2. Species composition and population estimates on Rapid Creek, 1999-2009

**Site 1656**

| Species/Size       | Date         | Pop Est. | (95% C.I.) | Stream Classification |
|--------------------|--------------|----------|------------|-----------------------|
| Brown Trout <200mm | 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    |                       |
|                    | Sep 21, 2005 | 217      | 170-264    |                       |
|                    | Oct 02, 2006 | 117      | 117-117    |                       |

|                       |              |    |        |     |
|-----------------------|--------------|----|--------|-----|
| Brown Trout <200mm    | Sep 16, 2008 | 58 | 53-66  |     |
|                       | Sep 09, 2009 | 89 | 89-91  |     |
| Brown Trout >=200mm   | 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 |
|                       | Sep 16, 2008 | 21 | 21-22  | BR2 |
|                       | Sep 09, 2009 | 33 | 32-36  | BR1 |
| Rainbow Trout <200mm  | Oct 02, 2006 | 5  | 5-7    |     |
|                       | Sep 16, 2008 | 1  | 1-1    |     |
|                       | Sep 09, 2009 | 76 | 40-158 |     |
| Rainbow Trout >=200mm | Sep 09, 2009 | 1  | 2-2    | RB2 |

| <b>Species/Size</b>  | <b>Date</b>  | <b>Pop Est.</b> | <b>(95% C.I.)</b> | <b>Stream Classification</b> |
|----------------------|--------------|-----------------|-------------------|------------------------------|
| Brown Trout <200mm   | Oct 20, 1999 | 115             | 99-133            |                              |
|                      | Jun 09, 2004 | 147             | 90-223            |                              |
|                      | Sep 21, 2005 | 241             | 175-307           |                              |
|                      | Oct 02, 2006 | 135             | 135-136           |                              |
|                      | Sep 27, 2007 | 145             | 144-148           |                              |
|                      | Sep 16, 2008 | 112             | 108-118           |                              |
|                      | Sep 09, 2009 | 85              | 84-88             |                              |
| 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                          |
|                      | Sep 27, 2007 | 17              | 17-17             | BR2                          |
|                      | Sep 16, 2008 | 30              | 30-32             | BR2                          |
|                      | Sep 09, 2009 | 35              | 31-44             | BR2                          |
| Rainbow Trout <200mm | Oct 02, 2006 | 9               | 9-10              |                              |

|                       |              |    |        |     |
|-----------------------|--------------|----|--------|-----|
| Rainbow Trout <200mm  | Sep 27, 2007 | 19 | 19-19  |     |
|                       | Sep 09, 2009 | 36 | 14-150 |     |
| Rainbow Trout >=200mm | Sep 27, 2007 | 2  | 2-2    | RB2 |
|                       | Sep 16, 2008 | 1  | 1-1    | RB2 |
|                       | Sep 09, 2009 | 2  | 2-4    | RB2 |

---

**Site 1833**

---

| <b>Species/Size</b> | <b>Date</b>  | <b>Pop Est.</b> | <b>(95% C.I.)</b> | <b>Stream Classification</b> |
|---------------------|--------------|-----------------|-------------------|------------------------------|
| Brook Trout <200mm  | Oct 14, 1999 | 2               | 2-3               |                              |
|                     | Oct 03, 2000 | 3               | 3-4               |                              |
|                     | Oct 02, 2001 | 7               | 7-8               |                              |
|                     | Oct 28, 2002 | 2               | 2-4               |                              |
|                     | Oct 13, 2004 | 2               | 2-3               |                              |
| Brown Trout <200mm  | Oct 14, 1999 | 48              | 40-62             |                              |
|                     | Oct 03, 2000 | 107             | 82-137            |                              |
|                     | Oct 02, 2001 | 222             | 110-383           |                              |
|                     | Oct 28, 2002 | 84              | 71-101            |                              |

---



|                     |              |     |         |     |
|---------------------|--------------|-----|---------|-----|
| Brown Trout <200mm  | Oct 13, 2004 | 492 | 425-559 |     |
|                     | Sep 20, 2005 | 437 | 336-538 |     |
|                     | Oct 03, 2006 | 181 | 179-185 |     |
|                     | Oct 02, 2007 | 55  | 50-64   |     |
|                     | Sep 17, 2008 | 102 | 102-104 |     |
|                     | Sep 11, 2009 | 184 | 99-301  |     |
| Brown Trout >=200mm | 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 |
|                     | Oct 02, 2007 | 6   | 6-7     | BR2 |
|                     | Sep 17, 2008 | 9   | 9-10    | BR2 |
|                     | Sep 11, 2009 | 4   | 4-4     | BR3 |

|                       |              |    |        |     |
|-----------------------|--------------|----|--------|-----|
| Rainbow Trout <200mm  | 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    |     |
|                       | Sep 20, 2005 | 12 | 10-20  |     |
|                       | Oct 03, 2006 | 12 | 12-13  |     |
|                       | Sep 17, 2008 | 16 | 16-17  |     |
|                       | Sep 11, 2009 | 28 | 12-108 |     |
| 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 |
|                       | Oct 02, 2007 | 1  | 1-2    | RB2 |
|                       | Sep 17, 2008 | 3  | 3-3    | RB2 |

Rainbow Trout &gt;=200mm

Sep 11, 2009

1

1-1

RB2

**Site 1843**

| <b>Species/Size</b> | <b>Date</b>  | <b>Pop Est.</b> | <b>(95% C.I.)</b> | <b>Stream Classification</b> |
|---------------------|--------------|-----------------|-------------------|------------------------------|
| Brook Trout <200mm  | Oct 04, 1999 | 1               | 1-1               |                              |
|                     | Oct 01, 2001 | 8               | 7-14              |                              |
|                     | Oct 25, 2002 | 6               | 6-6               |                              |
|                     | Jul 07, 2004 | 4               | 4-4               |                              |
|                     | Sep 19, 2005 | 2               | 2-6               |                              |
|                     | Oct 02, 2007 | 1               | 1-2               |                              |
|                     | Sep 17, 2008 | 3               | 3-4               |                              |
| Brown Trout <200mm  | 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           |                              |

|                      |              |     |         |     |
|----------------------|--------------|-----|---------|-----|
| Brown Trout <200mm   | Oct 03, 2006 | 217 | 209-225 |     |
|                      | Oct 02, 2007 | 73  | 64-86   |     |
|                      | Sep 17, 2008 | 126 | 119-134 |     |
|                      | Sep 11, 2009 | 47  | 47-48   |     |
| Brown Trout >=200mm  | Oct 04, 1999 | 68  | 67-71   | BR1 |
|                      | 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 |
|                      | Oct 02, 2007 | 4   | 4-4     | BR3 |
|                      | Sep 17, 2008 | 1   | 1-5     | BR3 |
|                      | Sep 11, 2009 | 1   | 1-2     | BR3 |
| Rainbow Trout <200mm | Oct 04, 1999 | 4   | 4-5     |     |
|                      | Oct 02, 2000 | 2   | 2-6     |     |

|                       |              |    |       |     |
|-----------------------|--------------|----|-------|-----|
| Rainbow Trout <200mm  | Sep 19, 2005 | 27 | 21-42 |     |
|                       | Oct 03, 2006 | 18 | 15-27 |     |
|                       | Oct 02, 2007 | 1  | 1-1   |     |
|                       | Sep 17, 2008 | 23 | 23-23 |     |
|                       | Sep 11, 2009 | 12 | 12-12 |     |
| Rainbow Trout >=200mm | Oct 02, 2000 | 1  | 1-2   | RB2 |
|                       | Oct 01, 2001 | 1  | 1-1   | RB2 |
|                       | Sep 19, 2005 | 2  | 2-2   | RB2 |
|                       | Sep 17, 2008 | 6  | 6-7   | RB1 |
|                       | Sep 11, 2009 | 2  | 2-4   | RB2 |

---

**Site 1849**


---

| <b>Species/Size</b> | <b>Date</b>  | <b>Pop Est.</b> | <b>(95% C.I.)</b> | <b>Stream Classification</b> |
|---------------------|--------------|-----------------|-------------------|------------------------------|
| Brook Trout <200mm  | Oct 14, 1999 | 10              | 11-13             |                              |
|                     | Oct 18, 1999 | 5               | 5-7               |                              |
|                     | Sep 28, 2006 | 1               | 1-1               |                              |
|                     | Sep 25, 2007 | 4               | 4-5               |                              |

---

|                     |              |     |         |     |
|---------------------|--------------|-----|---------|-----|
| Brook Trout <200mm  | Sep 18, 2008 | 2   | 2-3     |     |
|                     | Sep 08, 2009 | 12  | 12-13   |     |
| Brook Trout >=200mm | Oct 14, 1999 | 9   | 8-14    | BK2 |
|                     | Sep 25, 2007 | 1   | 1-1     | BK3 |
|                     | Sep 18, 2008 | 1   | 1-1     | BK3 |
| Brown Trout <200mm  | Oct 14, 1999 | 146 | 105-191 |     |
|                     | Oct 18, 1999 | 66  | 64-70   |     |
|                     | Sep 28, 2006 | 139 | 108-171 |     |
|                     | Sep 25, 2007 | 253 | 225-281 |     |
|                     | Sep 18, 2008 | 95  | 94-98   |     |
|                     | Sep 08, 2009 | 120 | 121-135 |     |
| Brown Trout >=200mm | Oct 14, 1999 | 148 | 94-216  | BR1 |
|                     | Oct 18, 1999 | 56  | 56-57   | BR1 |
|                     | Sep 25, 2007 | 17  | 16-21   | BR2 |
|                     | Sep 18, 2008 | 17  | 15-24   | BR2 |
|                     | Sep 08, 2009 | 25  | 14-67   | BR2 |

|                       |              |    |       |     |
|-----------------------|--------------|----|-------|-----|
| Rainbow Trout <200mm  | Oct 14, 1999 | 18 | 17-22 |     |
|                       | Oct 18, 1999 | 2  | 2-6   |     |
|                       | Sep 28, 2006 | 3  | 3-4   |     |
|                       | Sep 18, 2008 | 25 | 16-54 |     |
|                       | Sep 08, 2009 | 6  | 6-7   |     |
| Rainbow Trout >=200mm | Sep 25, 2007 | 29 | 28-33 | RB1 |
|                       | Sep 18, 2008 | 19 | 19-20 | RB1 |
|                       | Sep 08, 2009 | 9  | 9-9   | RB1 |

---

**Site 1853**

---

| <b>Species/Size</b> | <b>Date</b>  | <b>Pop Est.</b> | <b>(95% C.I.)</b> | <b>Stream Classification</b> |
|---------------------|--------------|-----------------|-------------------|------------------------------|
| Brook Trout <200mm  | 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            |                              |

---

|                     |              |    |        |     |
|---------------------|--------------|----|--------|-----|
| Brook Trout <200mm  | Sep 28, 2006 | 50 | 38-72  |     |
|                     | Sep 25, 2007 | 11 | 11-13  |     |
|                     | Sep 18, 2008 | 27 | 26-30  |     |
|                     | Sep 08, 2009 | 50 | 27-113 |     |
| Brook Trout >=200mm | Oct 04, 1999 | 3  | 3-4    | BK3 |
|                     | Oct 03, 2000 | 6  | 6-9    | BK2 |
|                     | Oct 02, 2001 | 10 | 8-19   | BK2 |
|                     | 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 |
|                     | Sep 25, 2007 | 4  | 4-4    | BK3 |
|                     | Sep 18, 2008 | 3  | 3-4    | BK3 |
|                     | Sep 08, 2009 | 1  | 1-1    | BK3 |
| Brown Trout <200mm  | Oct 04, 1999 | 67 | 63-74  |     |
|                     | Oct 03, 2000 | 42 | 42-43  |     |



|                     |              |     |         |     |
|---------------------|--------------|-----|---------|-----|
| Brown Trout <200mm  | 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 |     |
|                     | Sep 25, 2007 | 65  | 62-71   |     |
|                     | Sep 18, 2008 | 84  | 81-89   |     |
|                     | Sep 08, 2009 | 49  | 50-60   |     |
| Brown Trout >=200mm | 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 |
|                     | Sep 25, 2007 | 8   | 8-10    | BR2 |

|                       |              |     |        |     |
|-----------------------|--------------|-----|--------|-----|
| Brown Trout >=200mm   | Sep 18, 2008 | 4   | 4-4    | BR3 |
|                       | Sep 08, 2009 | 3   | 3-3    | BR3 |
| Rainbow Trout <200mm  | Oct 04, 1999 | 44  | 34-63  |     |
|                       | Oct 03, 2000 | 118 | 93-146 |     |
|                       | Oct 02, 2001 | 43  | 43-45  |     |
|                       | Sep 23, 2002 | 5   | 5-7    |     |
|                       | Jul 07, 2004 | 7   | 6-13   |     |
|                       | Sep 19, 2005 | 28  | 29-35  |     |
|                       | Sep 28, 2006 | 7   | 7-9    |     |
|                       | Sep 18, 2008 | 19  | 19-21  |     |
|                       | Sep 08, 2009 | 4   | 4-6    |     |
| Rainbow Trout >=200mm | 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 |

|                       |              |    |       |     |
|-----------------------|--------------|----|-------|-----|
| Rainbow Trout >=200mm | Sep 19, 2005 | 5  | 3-24  | RB2 |
|                       | Sep 28, 2006 | 16 | 16-17 | RB1 |
|                       | Sep 25, 2007 | 4  | 4-4   | RB2 |
|                       | Sep 18, 2008 | 4  | 4-5   | RB2 |

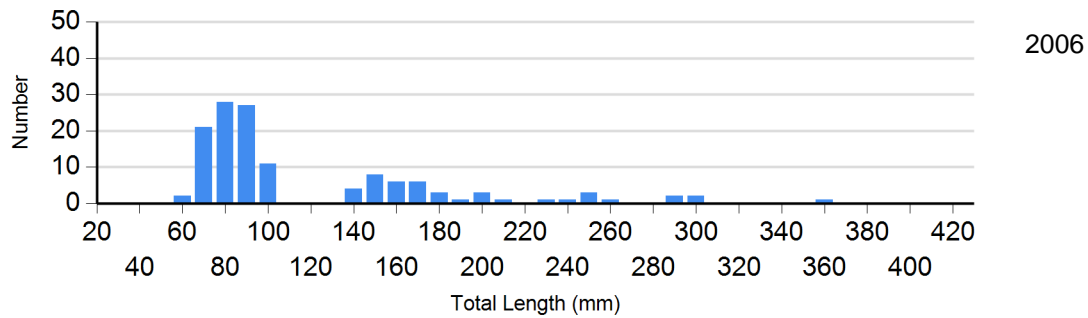
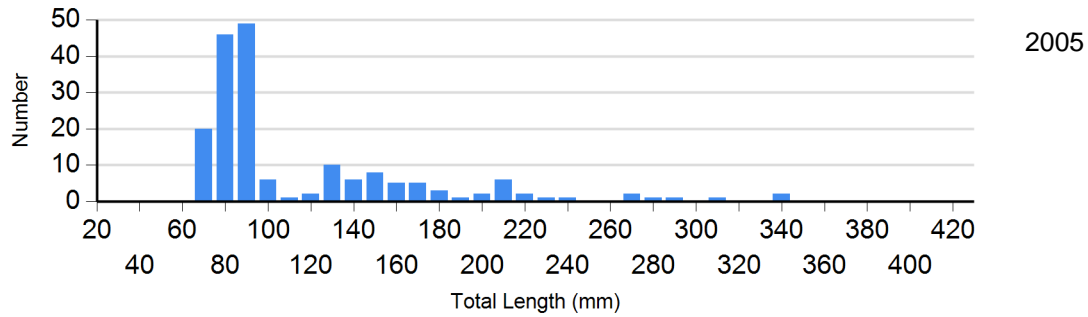
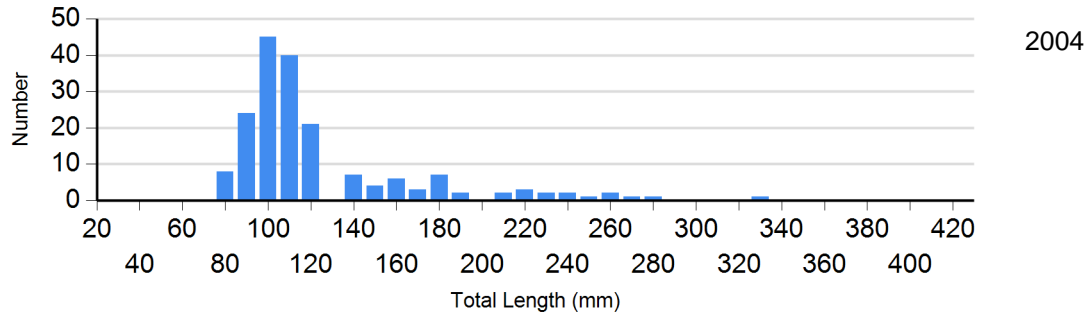
---

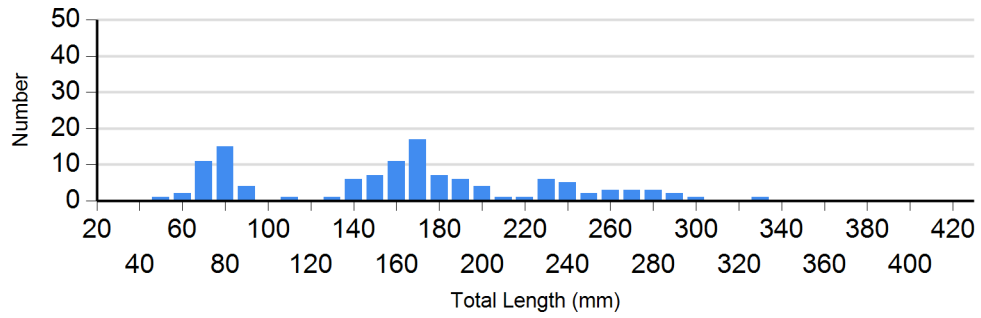
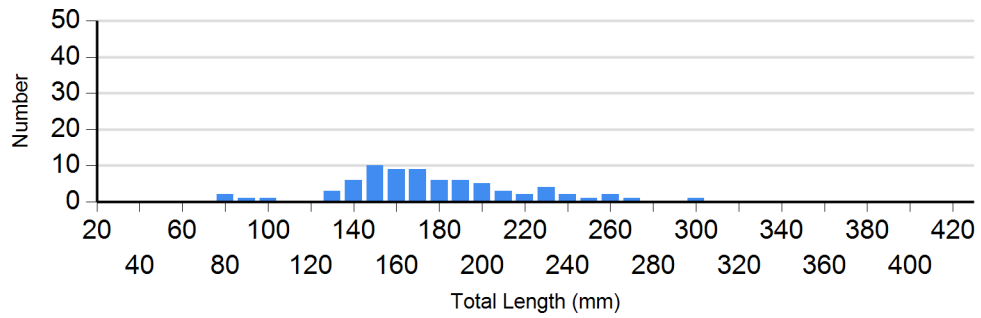
## Length Frequency Distribution

Length frequency histogram of species sampled by year.

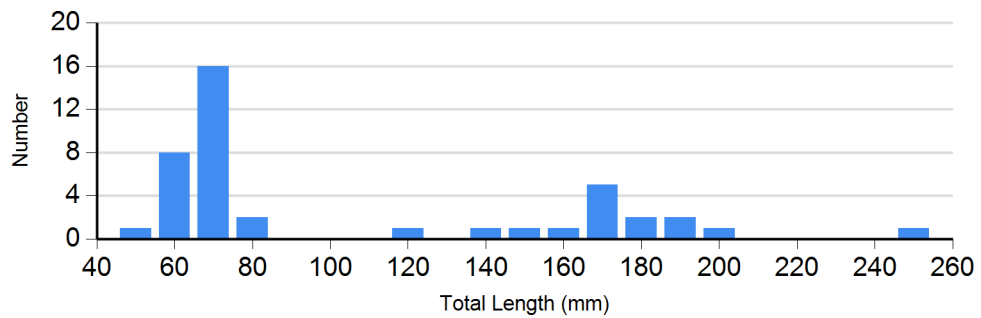
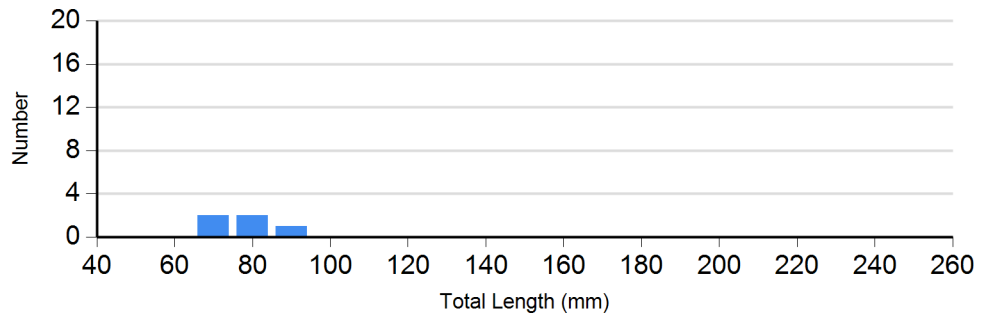
**Site:** 1656

**Species:** Brown Trout

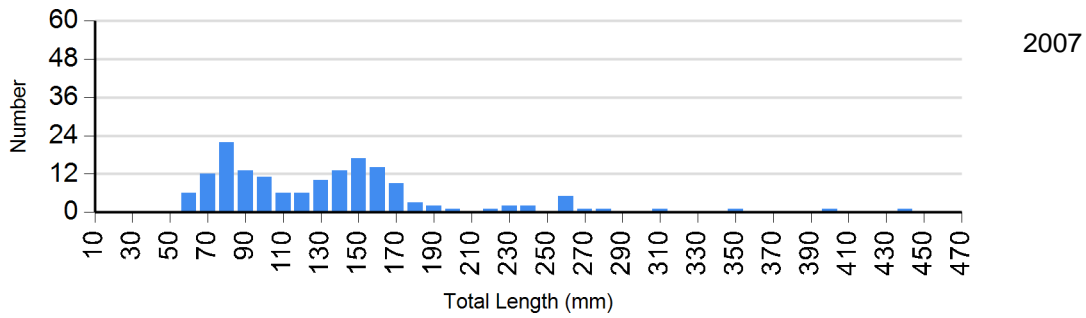
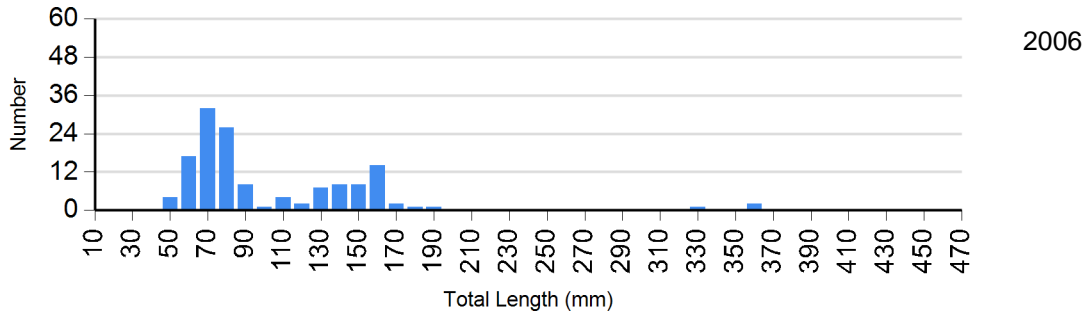
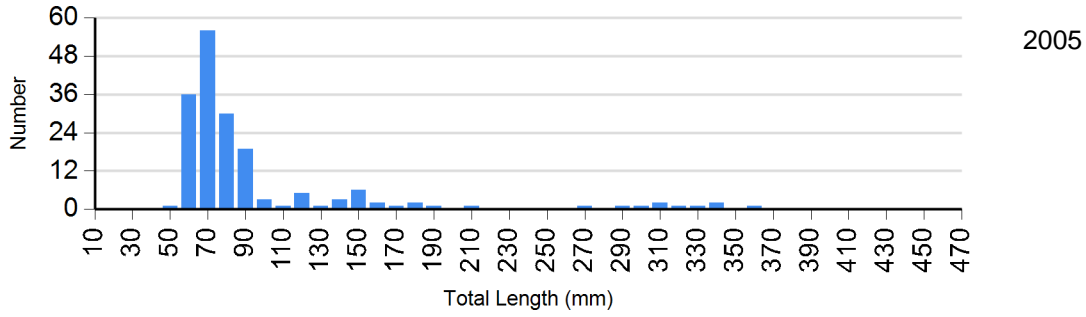
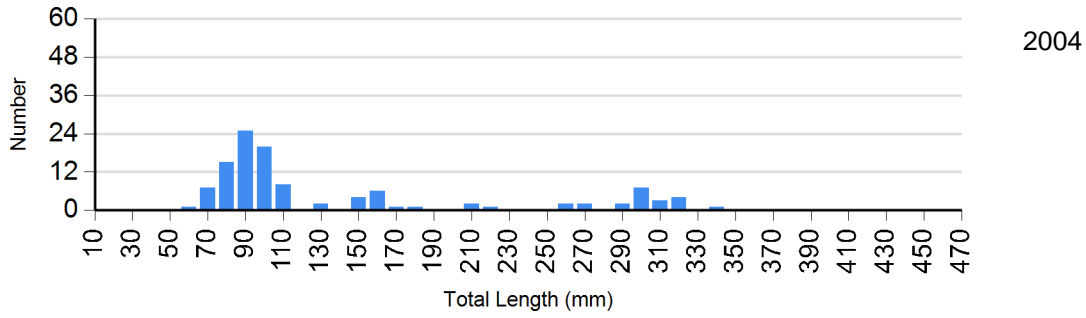


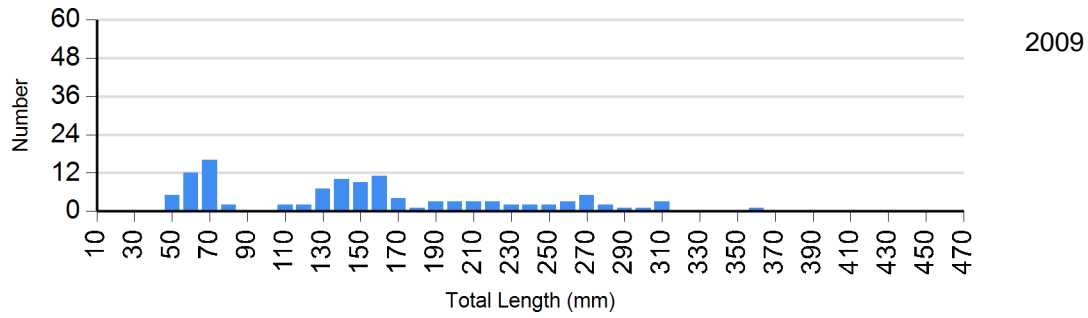
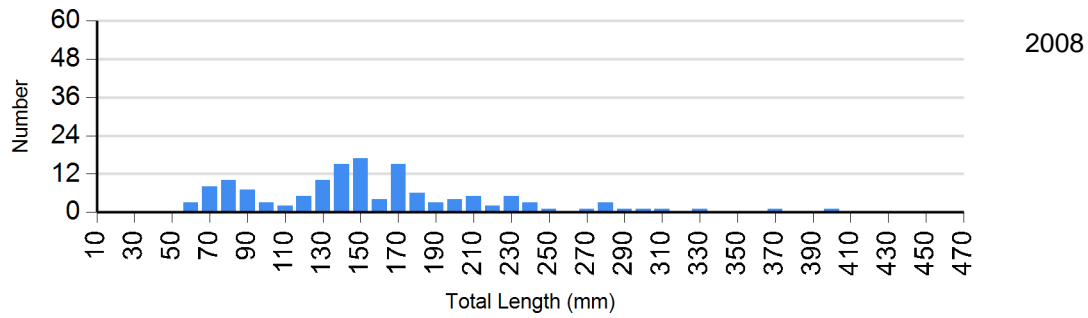


**Site:** 1656  
**Species:** Rainbow Trout

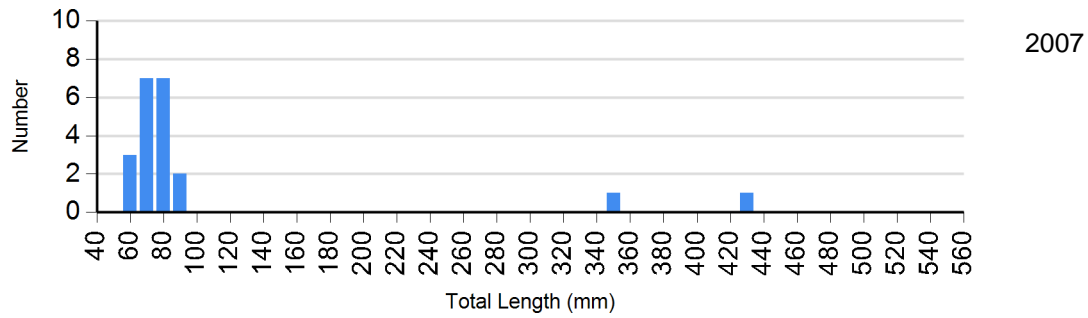
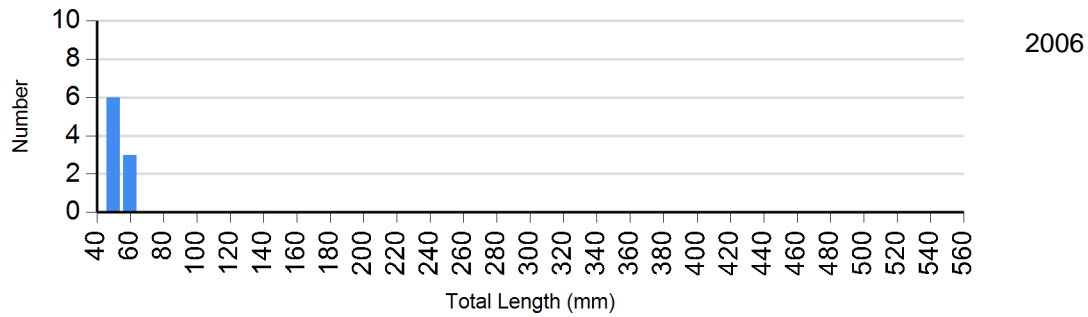


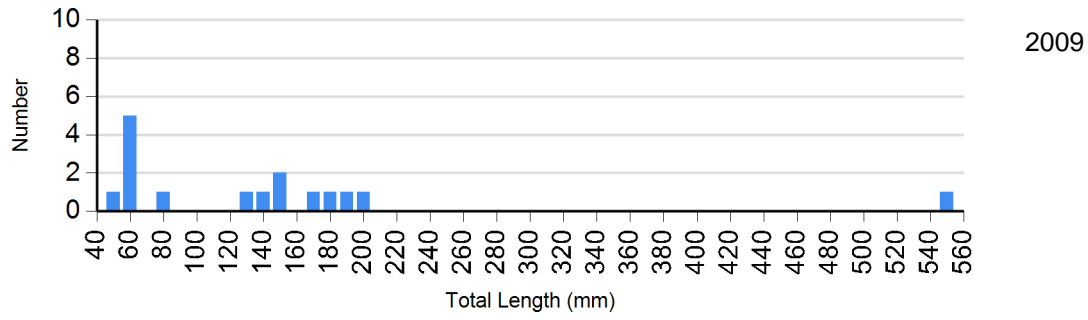
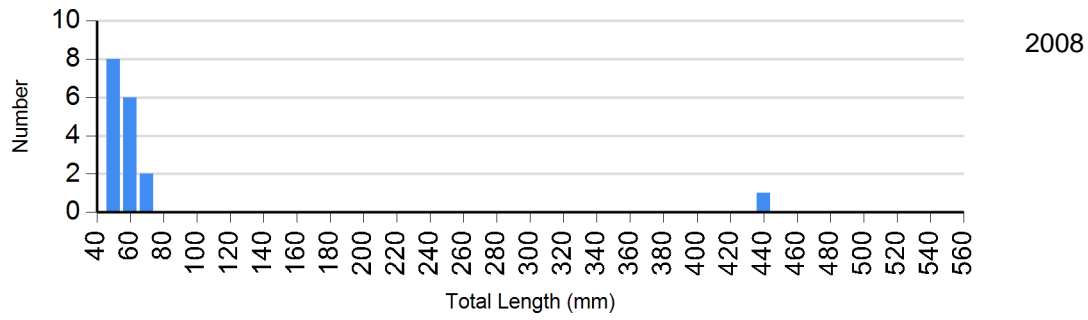
Site: 1752  
Species: Brown Trout



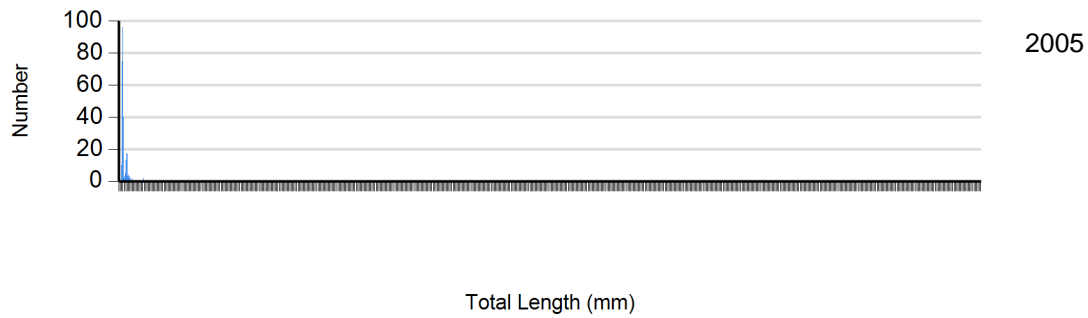
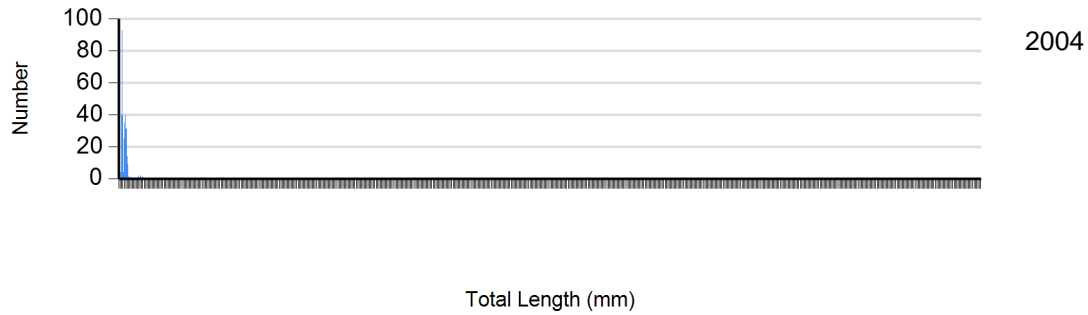


Site: 1752  
Species: Rainbow Trout

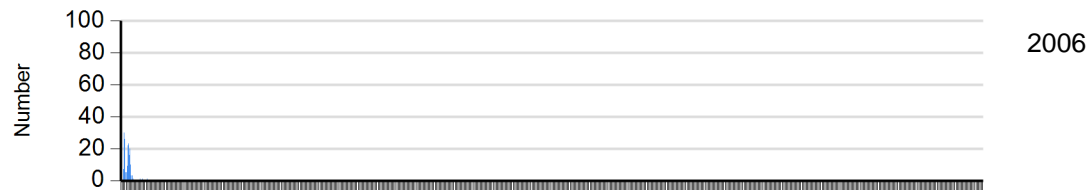




**Site:** 1833  
**Species:** Brown Trout







Total Length (mm)



Total Length (mm)

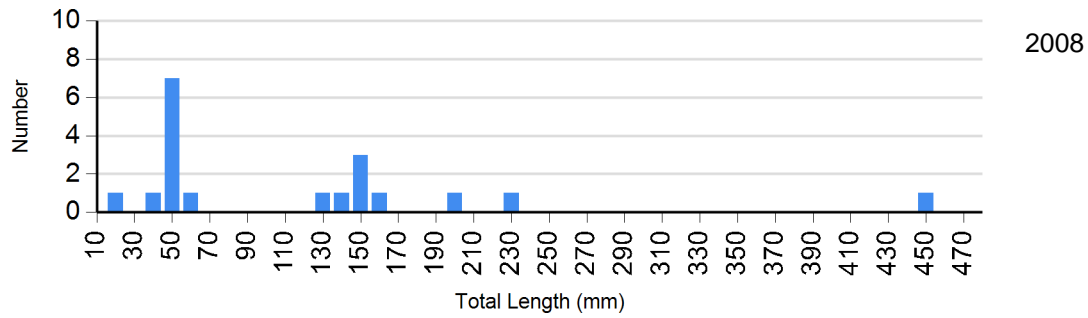
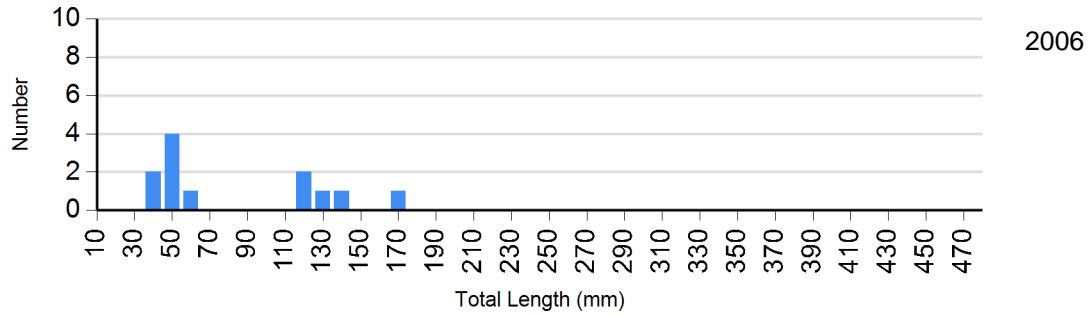
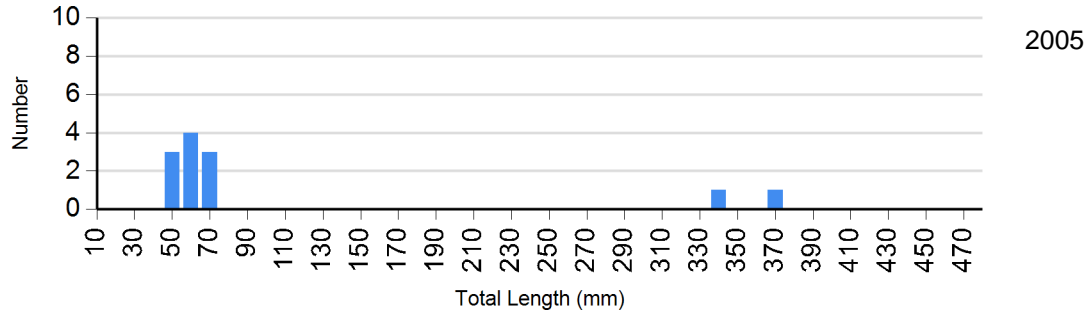
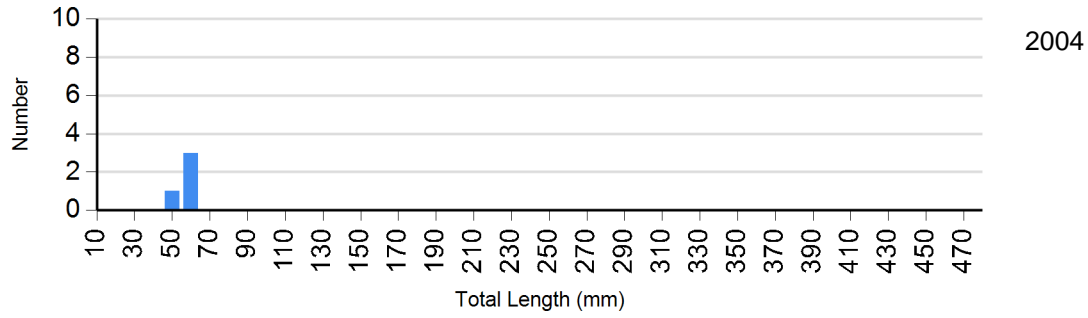


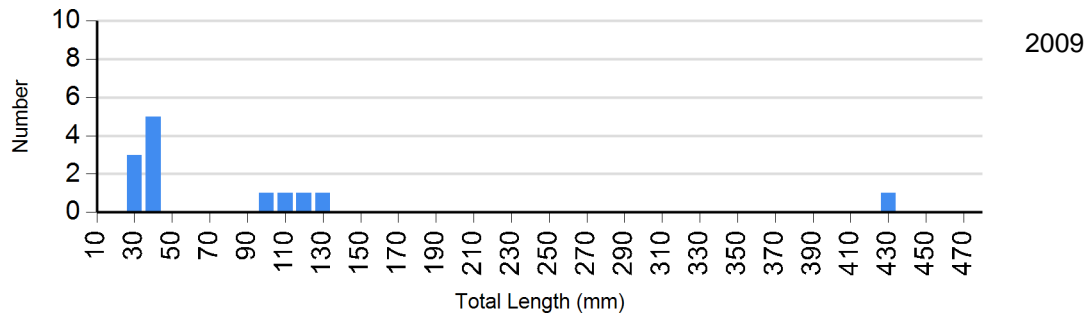
Total Length (mm)



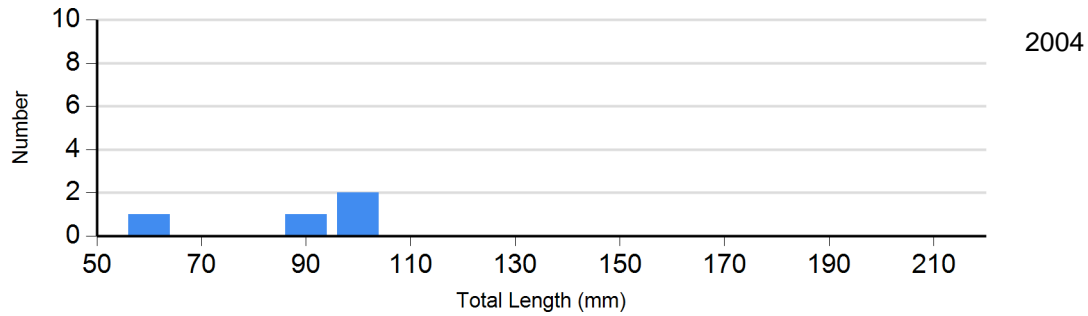
Total Length (mm)

Site: 1833  
Species: Rainbow Trout

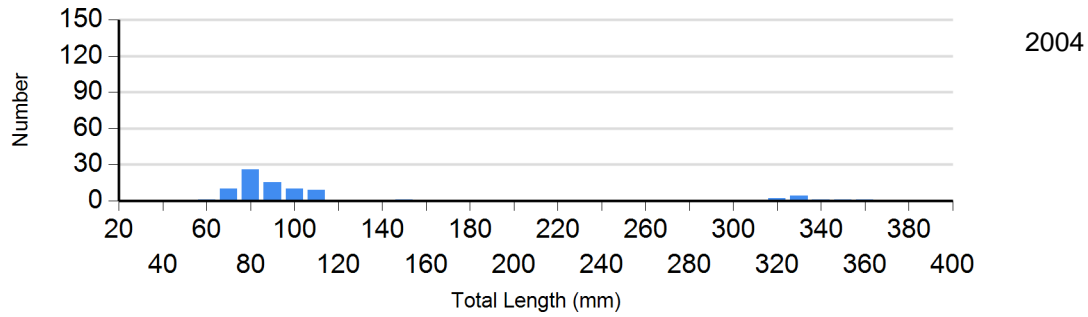


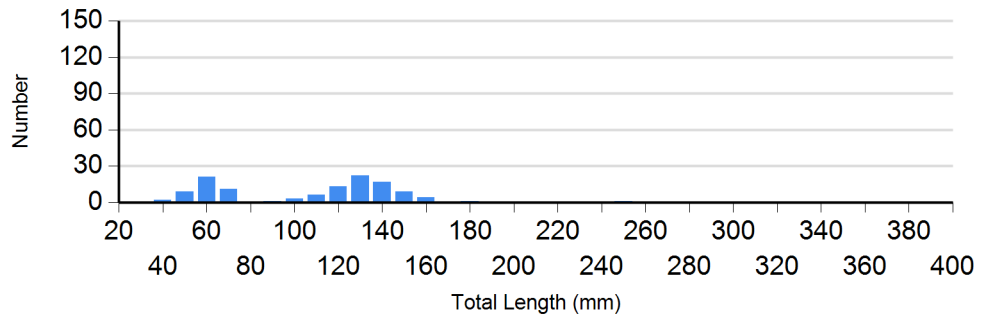
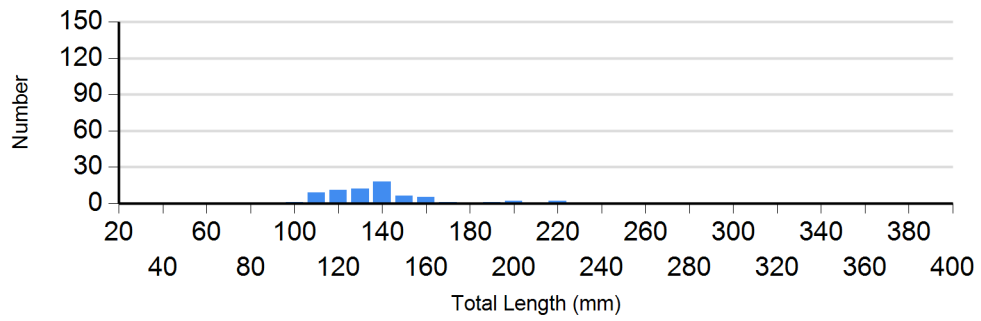
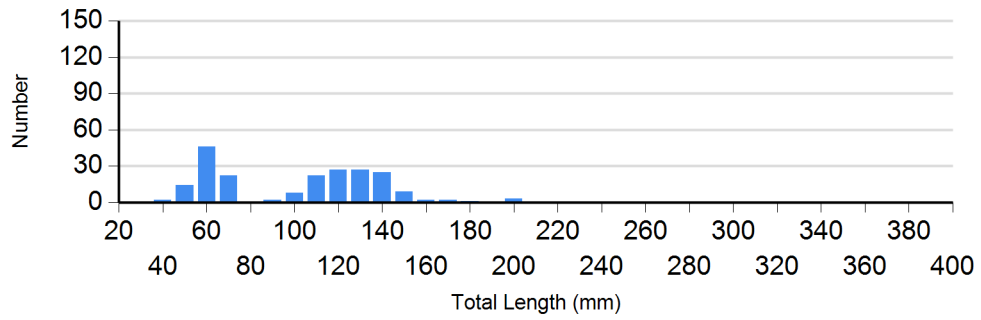
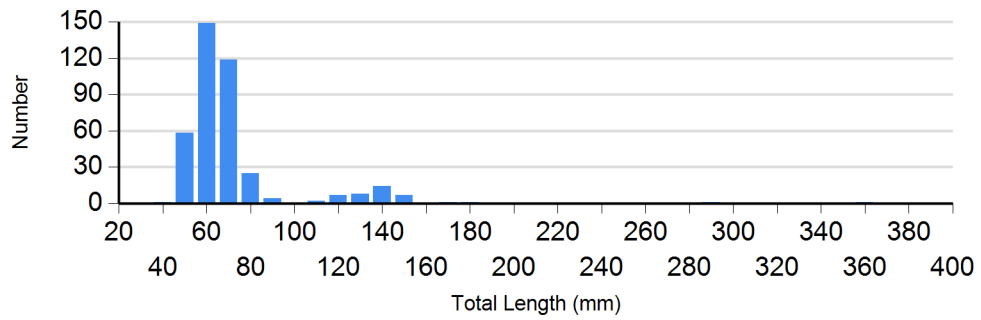


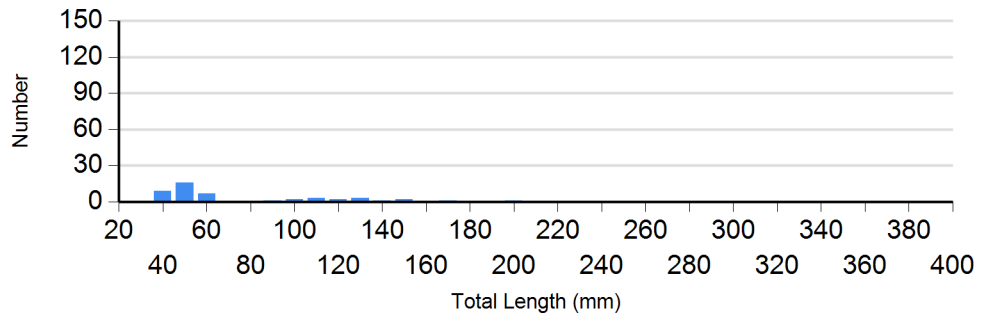
**Site:** 1843  
**Species:** Brook Trout



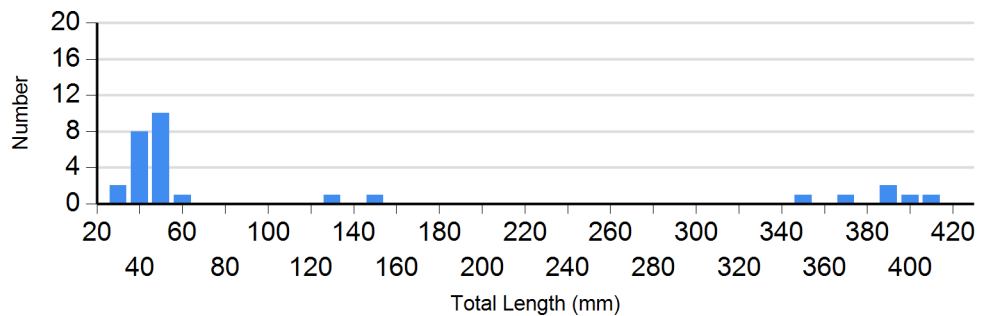
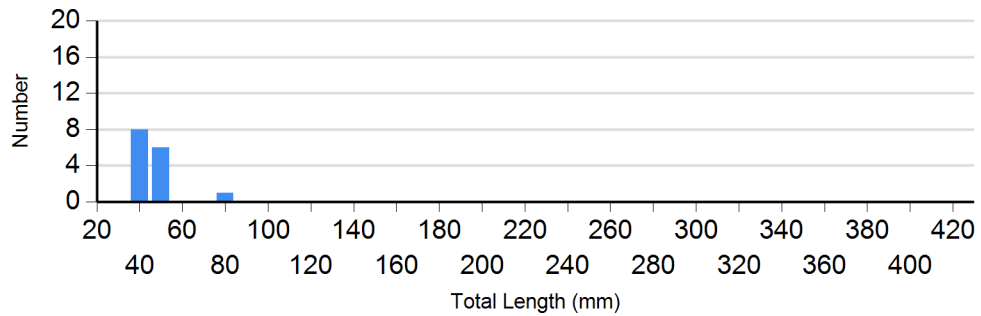
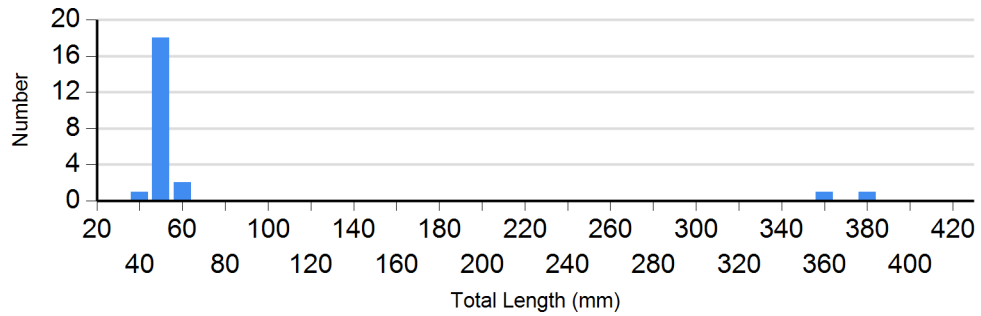
**Site:** 1843  
**Species:** Brown Trout

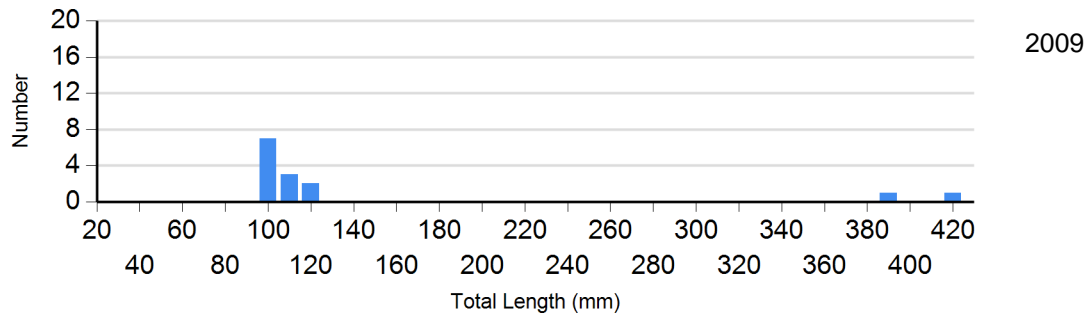




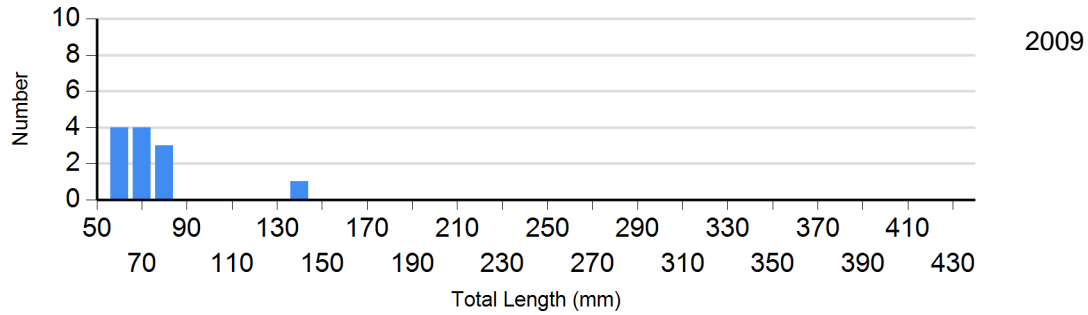
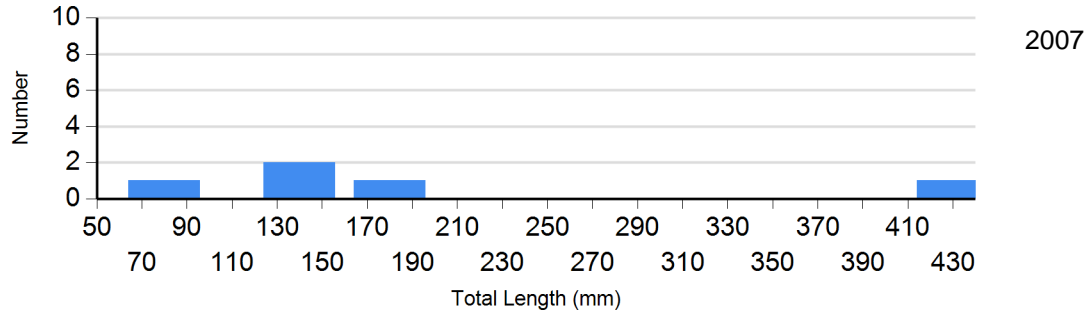


Site: 1843  
Species: Rainbow Trout

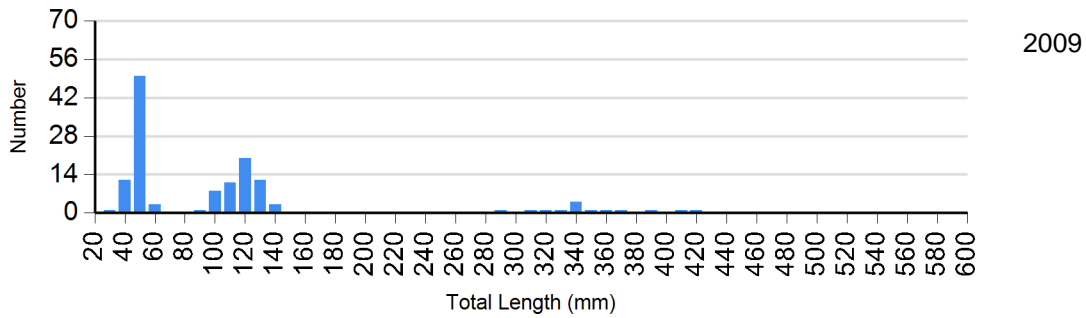
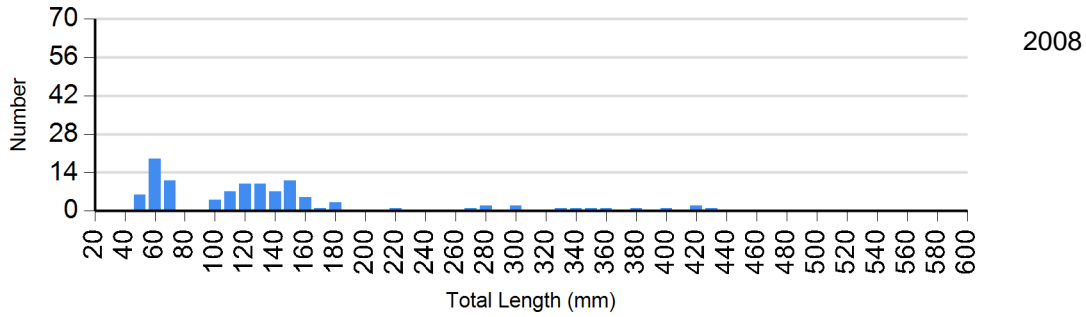
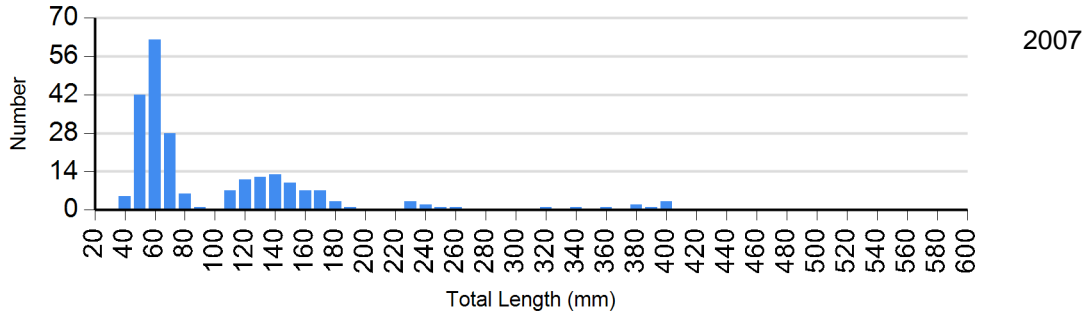
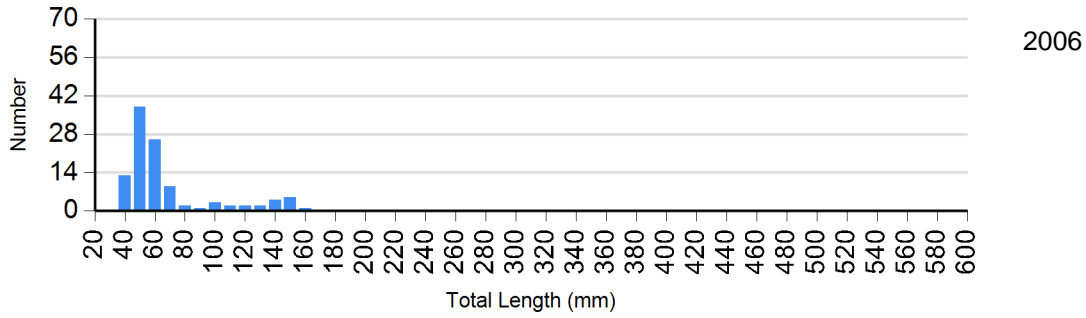




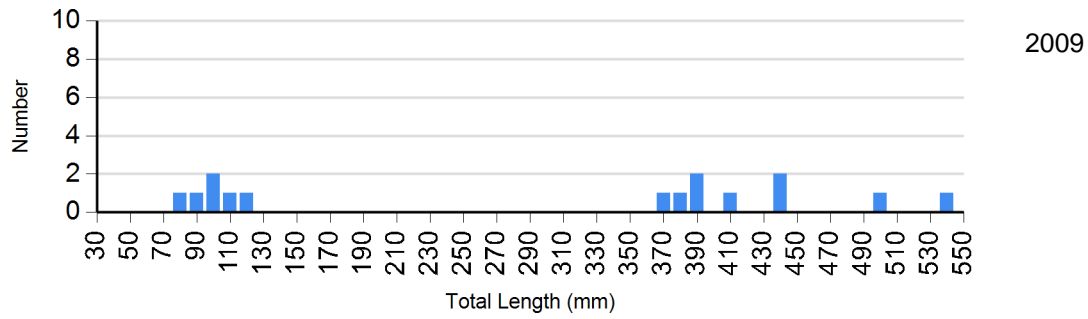
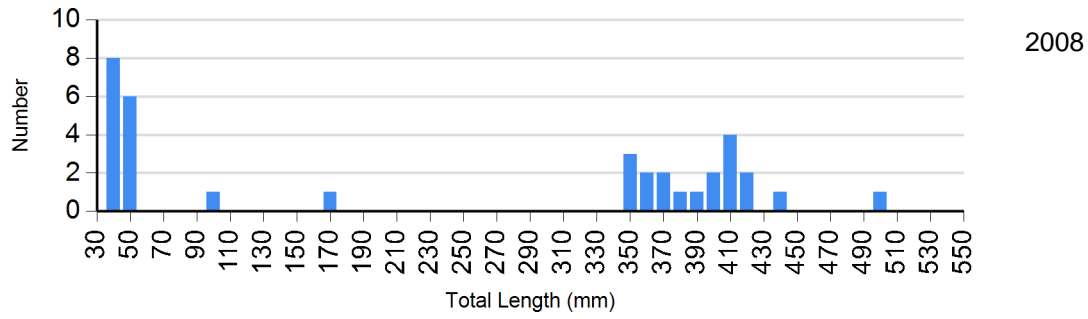
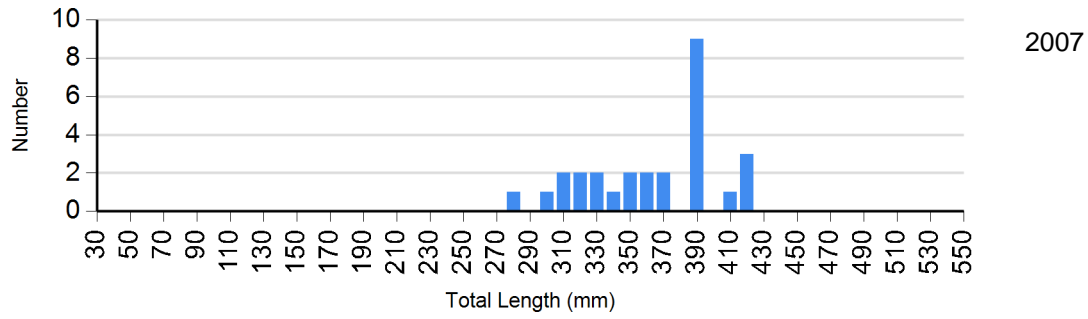
**Site:** 1849  
**Species:** Brook Trout



Site: 1849  
Species: Brown Trout

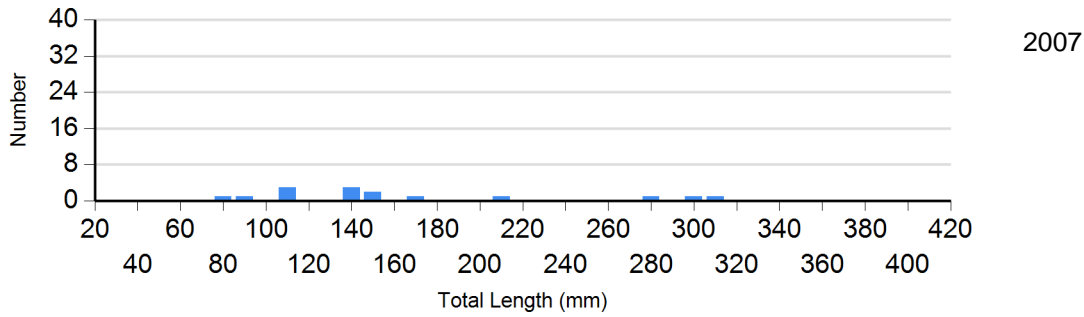
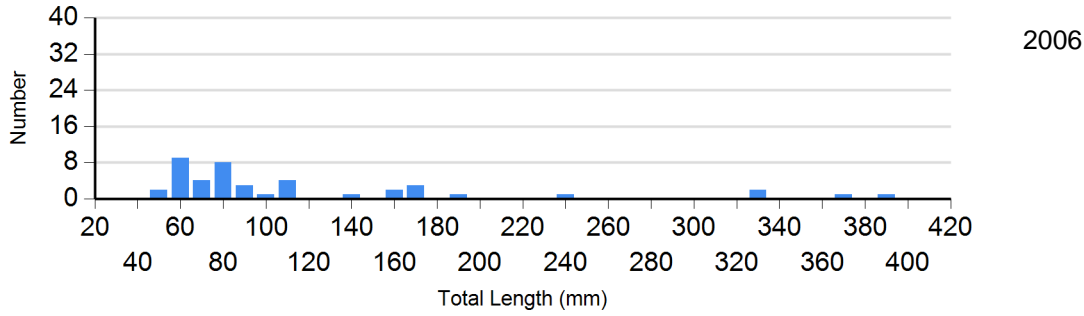
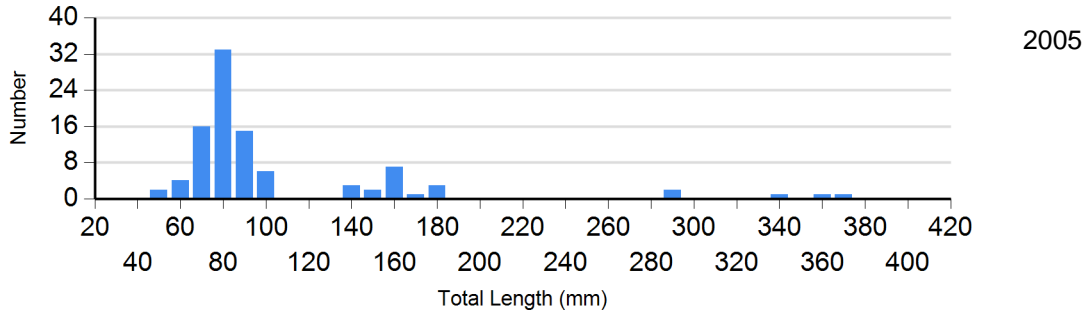
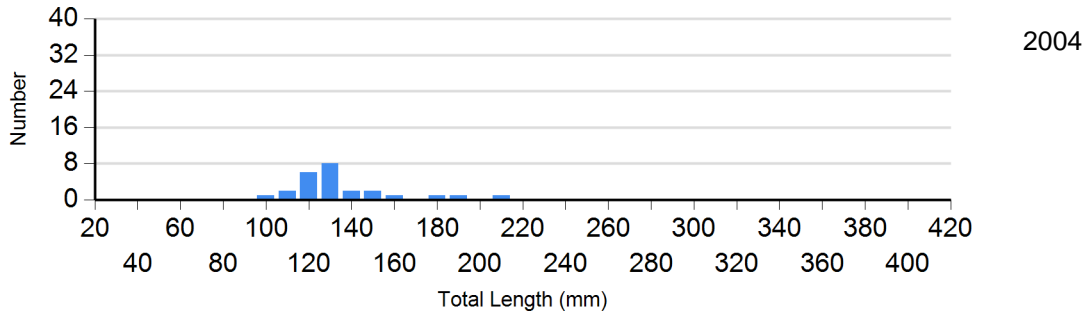


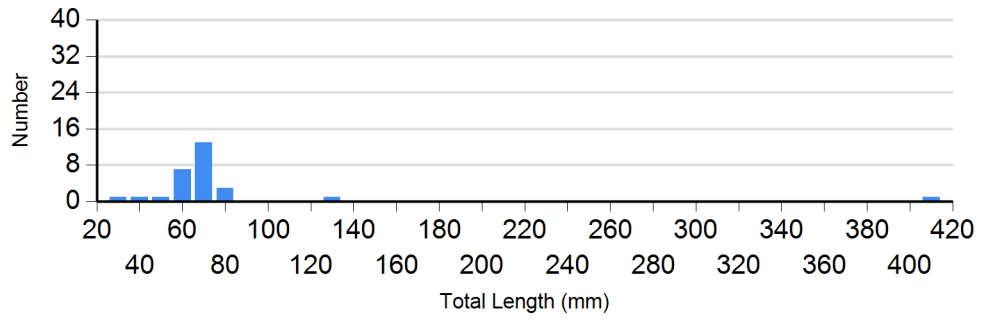
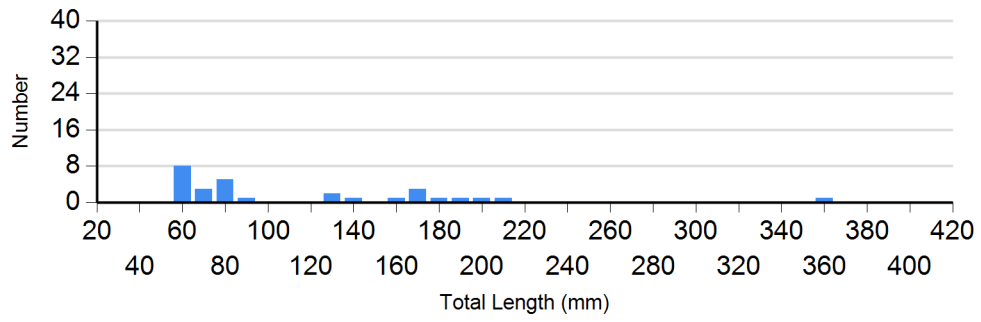
Site: 1849  
Species: Rainbow Trout



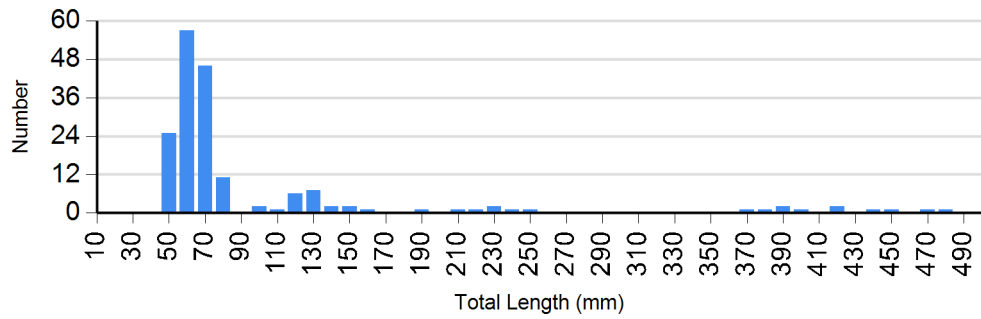
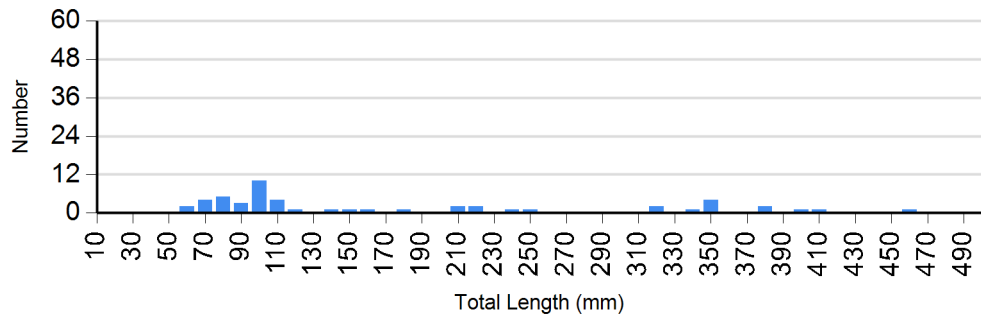


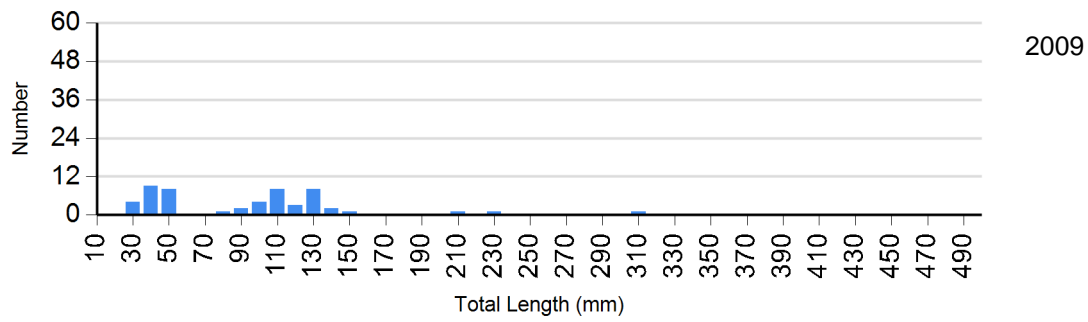
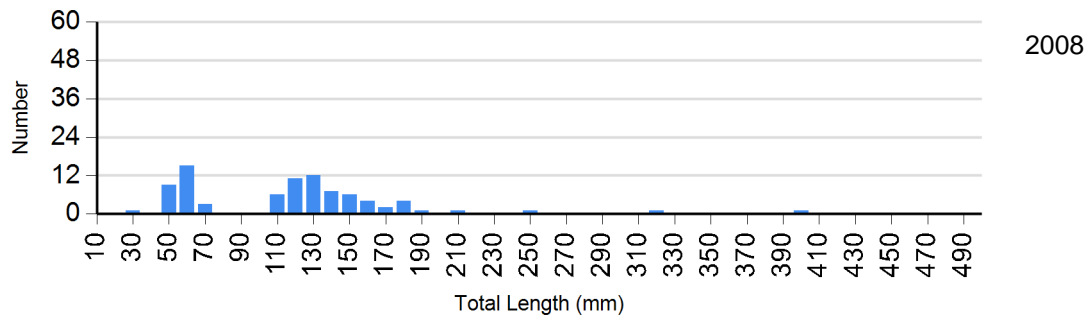
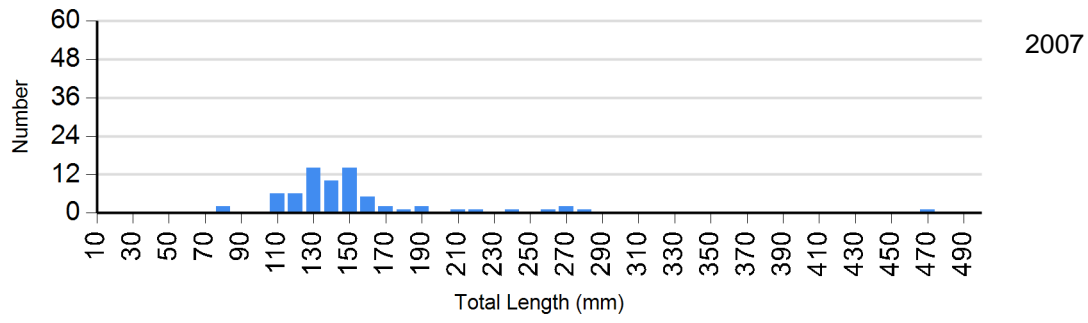
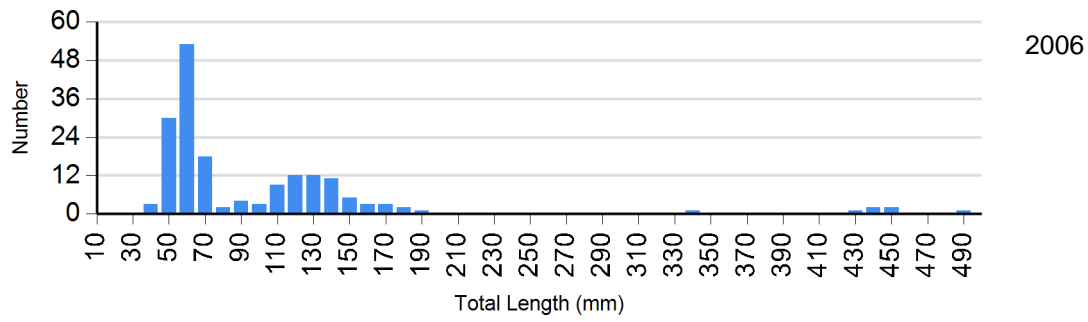
Site: 1853  
Species: Brook Trout





**Site:** 1853  
**Species:** Brown Trout





Site: 1853  
Species: Rainbow Trout

