**Log of Female Ovarian Condition and Oocyte Counts**

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| Yr/Month | Fish ID | Ovarian Stage (I-V) | # Stage I Oocytes | # Stage II Oocytes | # Stage III Oocytes | # Stage IV Oocytes | Total # Oocytes |
| 13-May | HAEE01 |  |  |  |  |  |  |
| 13-May | HAEE02 |  |  |  |  |  |  |
| 13-May | HAEE03 |  |  |  |  |  |  |
| 13-May | HAEE04 | IV | 61 | 440 | 282 | 12 | 795 |
| 13-May | HAEE05 | IV | 26 | 335 | 562 | 4 | 927 |
| 13-May | HAEE06 |  |  |  |  |  |  |
| 13-May | HAEE07 |  |  |  |  |  |  |
| 13-May | HAEE08 |  |  |  |  |  |  |
| 13-May | HAEE09 |  |  |  |  |  |  |
| 13-Jun | HAFF01 |  |  |  |  |  |  |
| 13-Jun | HAFF02 |  |  |  |  |  |  |
| 13-Jun | HAFF03 |  |  |  |  |  |  |
| 13-Jun | HAFF04 | V | 56 | 382 | 109 | 3 | 550 |
| 13-Jun | HAFF05 |  |  |  |  |  |  |
| 13-Jun | HAFF06 |  |  |  |  |  |  |
| 13-Jun | HAFF07 |  |  |  |  |  |  |
| 13-Jun | HAFF08 |  |  |  |  |  |  |
| 13-Jun | HAFF09 |  |  |  |  |  |  |
| 13-Jun | HAFF10 |  |  |  |  |  |  |
| 13-Jun | HAFF11 | IV | 345 | 817 | 548 | 30 | 1740 |
| 13-Jun | HAFF12 | IV | 329 | 615 | 198 | 34 | 1176 |
| 13-Jun | HAFF13 |  |  |  |  |  |  |
| 13-Jun | HAFF14 |  |  |  |  |  |  |
| 13-Jun | HAFF15 |  |  |  |  |  |  |
| 13-Jun | HAFF16 |  |  |  |  |  |  |
| 13-Jun | HAFF17 | V | 157 | 339 | 179 | 5 | 680 |
| 13-Jun | HAFF18 |  |  |  |  |  |  |
| 13-Jun | HAFF19 |  |  |  |  |  |  |
| 13-Jun | HAFF20 |  |  |  |  |  |  |
| 13-Jun | HAFF21 |  |  |  |  |  |  |
| 13-Jun | HAFF22 |  |  |  |  |  |  |
| 13-Jun | HAFF23 | V |  | 56 | 182 | 67 | 305 |
| 13-Jun | HAFF24 |  |  |  |  |  |  |
| 13-Jun | HAFF25 |  |  |  |  |  |  |
| 13-Jun | HAFF26 |  |  |  |  |  |  |
| 13-Jun | HAFF27 |  |  |  |  |  |  |
| 13-Jun | HAFF28 |  |  |  |  |  |  |
| 13-Jun | HAFF29 |  |  |  |  |  |  |

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| Yr/Month | Fish ID | Ovarian Stage (I-V) | # Stage I Oocytes | # Stage II Oocytes | # Stage III Oocytes | # Stage IV Oocytes | Total # Oocytes |
| 13-Jun | HAFF30 |  |  |  |  |  |  |
| 13-Jun | HAFF31 |  |  |  |  |  |  |
| 13-Jun | HAFF32 |  |  |  |  |  |  |
| 13-Jun | HAFF33 |  |  |  |  |  |  |
| 13-Jun | HAFF34 |  |  |  |  |  |  |
| 13-Jun | HAFF35 | V | 34 | 141 | 326 | 39 | 540 |
| 13-Jul | HAGG01 |  |  |  |  |  |  |
| 13-Jul | HAGG02 | V | 232 | 317 | 7 |  | 556 |
| 13-Aug | HAH01 | V | 394 | 129 | 15 |  | 538 |
| 13-Aug | HAH02 |  |  |  |  |  |  |
| 13-Aug | HAH03 |  |  |  |  |  |  |
| 13-Aug | HAH04 |  |  |  |  |  |  |
| 13-Aug | HAH05 |  |  |  |  |  |  |
| 13-Aug | HAH06 |  |  |  |  |  |  |
| 13-Aug | HAH07 |  |  |  |  |  |  |
| 13-Aug | HAH08 |  |  |  |  |  |  |
| 13-Aug | HAH09 |  |  |  |  |  |  |
| 13-Aug | HAH10 |  |  |  |  |  |  |
| 13-Aug | HAH11 |  |  |  |  |  |  |
| 13-Aug | HAH12 |  |  |  |  |  |  |
| 13-Aug | HAH13 |  |  |  |  |  |  |
| 13-Aug | HAH14 |  |  |  |  |  |  |
| 13-Aug | HAH15 |  |  |  |  |  |  |
| 13-Aug | HAH16 |  |  |  |  |  |  |
| 13-Aug | HAH17 |  |  |  |  |  |  |
| 13-Aug | HAH18 |  |  |  |  |  |  |
| 13-Aug | HAH19 | V | 55 | 108 | 33 | 10 | 206 |
| 13-Aug | HAH20 |  |  |  |  |  |  |
| 13-Aug | HAH21 |  |  |  |  |  |  |
| 13-Aug | HAH22 |  |  |  |  |  |  |
| 13-Aug | HAH23 |  |  |  |  |  |  |
| 13-Aug | HAH24 |  |  |  |  |  |  |
| 13-Aug | HAH25 | V | 284 | 72 | 35 |  | 391 |
| 13-Aug | HAH26 |  |  |  |  |  |  |
| 13-Aug | HAH27 |  |  |  |  |  |  |
| 13-Aug | HAH28 |  |  |  |  |  |  |
| 13-Aug | HAH29 |  |  |  |  |  |  |
| 13-Aug | HAH30 |  |  |  |  |  |  |
| 13-Aug | HAH31 |  |  |  |  |  |  |

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| Yr/Month | Fish ID | Ovarian Stage (I-V) | # Stage I Oocytes | # Stage II Oocytes | # Stage III Oocytes | # Stage IV Oocytes | Total # Oocytes |
| 13-Oct | HAJ04 |  |  |  |  |  |  |
| 13-Oct | HAJ06 |  |  |  |  |  |  |
| 13-Oct | HAJ07 |  |  |  |  |  |  |
| 13-Oct | HAJ08 |  |  |  |  |  |  |
| 13-Oct | HAJ09 |  |  |  |  |  |  |
| 13-Oct | HAJ10 |  |  |  |  |  |  |
| 13-Oct | HAJ11 |  |  |  |  |  |  |
| 13-Nov | HAK01 |  |  |  |  |  |  |
| 13-Nov | HAK02 |  |  |  |  |  |  |
| 13-Nov | HAK03 | I | 97 | 17 | 79 |  | 193 |
| 13-Nov | HAK04 |  |  |  |  |  |  |
| 13-Nov | HAK05 |  |  |  |  |  |  |
| 13-Nov | HAK06 |  |  |  |  |  |  |
| 13-Nov | HAK07 |  |  |  |  |  |  |
| 13-Nov | HAK08 |  |  |  |  |  |  |
| 13-Nov | HAK09 |  |  |  |  |  |  |
| 13-Nov | HAK10 |  |  |  |  |  |  |
| 13-Nov | HAK11 |  |  |  |  |  |  |
| 13-Nov | HAK12 |  |  |  |  |  |  |
| 13-Nov | HAK13 | I | 117 | 179 |  |  | 296 |
| 13-Nov | HAK14 | I | 181 | 77 |  |  | 258 |
| 13-Nov | HAK15 |  |  |  |  |  |  |
| 13-Nov | HAK16 |  |  |  |  |  |  |
| 13-Nov | HAK17 |  |  |  |  |  |  |
| 13-Nov | HAK18 |  |  |  |  |  |  |
| 13-Nov | HAK19 |  |  |  |  |  |  |
| 13-Nov | HAK20 |  |  |  |  |  |  |
| 13-Nov | HAK21 |  |  |  |  |  |  |
| 13-Nov | HAK22 |  |  |  |  |  |  |
| 13-Nov | HAK23 |  |  |  |  |  |  |
| 13-Nov | HAK24 |  |  |  |  |  |  |
| 13-Nov | HAK25 |  |  |  |  |  |  |
| 13-Nov | HAK26 |  |  |  |  |  |  |
| 13-Nov | HAK27 |  |  |  |  |  |  |
| 13-Dec | HAL01 | I | 547 | 36 |  |  | 583 |
| 13-Dec | HAL02 |  |  |  |  |  |  |
| 13-Dec | HAL03 |  |  |  |  |  |  |
| 13-Dec | HAL04 |  |  |  |  |  |  |
| 13-Dec | HAL05 |  |  |  |  |  |  |

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| Yr/Month | Fish ID | Ovarian Stage (I-V) | # Stage I Oocytes | # Stage II Oocytes | # Stage III Oocytes | # Stage IV Oocytes | Total # Oocytes |
| 13-Dec | HAL06 |  |  |  |  |  |  |
| 13-Dec | HAL07 |  |  |  |  |  |  |
| 13-Dec | HAL08 | I | 307 | 25 |  |  | 332 |
| 13-Dec | HAL09 | I | 525 | 11 |  |  | 536 |
| 13-Dec | HAL10 | I | 706 | 64 | 22 |  | 792 |
| 13-Dec | HAL11 | I | 795 |  |  |  | 795 |
| 13-Dec | HAL12 | I | 425 | 33 |  |  | 458 |
| 13-Dec | HAL13 |  |  |  |  |  |  |
| 13-Dec | HAL14 | I | 587 | 26 |  |  | 613 |
| 13-Dec | HAL15 | I | 90 |  |  |  | 90 |
| 13-Dec | HAL16 |  |  |  |  |  |  |
| 13-Dec | HAL17 |  |  |  |  |  |  |
| 13-Dec | HAL18 | I | 454 |  |  |  | 454 |
| 13-Dec | HAL19 | I | 462 |  |  |  | 462 |
| 13-Dec | HAL20 |  |  |  |  |  |  |
| 13-Dec | HAL21 |  |  |  |  |  |  |
| 13-Dec | HAL22 |  |  |  |  |  |  |
| 13-Dec | HAL23 |  |  |  |  |  |  |
| 13-Dec | HAL24 |  |  |  |  |  |  |
| 13-Dec | HAL25 |  |  |  |  |  |  |
| 13-Dec | HAL26 |  |  |  |  |  |  |
| 14-Jan | HAA01 |  |  |  |  |  |  |
| 14-Jan | HAA02 |  |  |  |  |  |  |
| 14-Feb | HAB01 |  |  |  |  |  |  |
| 14-Feb | HAB02 |  |  |  |  |  |  |
| 14-Feb | HAB03 |  |  |  |  |  |  |
| 14-Feb | HAB04 |  |  |  |  |  |  |
| 14-Feb | HAB05 | II | 1083 | 164 |  |  | 1247 |
| 14-Feb | HAB06 |  |  |  |  |  |  |
| 14-Feb | HAB07 |  |  |  |  |  |  |
| 14-Feb | HAB08 |  |  |  |  |  |  |
| 14-Feb | HAB09 |  |  |  |  |  |  |
| 14-Feb | HAB10 |  |  |  |  |  |  |
| 14-Feb | HAB11 |  |  |  |  |  |  |
| 14-Feb | HAB12 |  |  |  |  |  |  |
| 14-Feb | HAB13 |  |  |  |  |  |  |
| 14-Feb | HAB14 |  |  |  |  |  |  |
| 14-Feb | HAB15 |  |  |  |  |  |  |
| 14-Feb | HAB16 |  |  |  |  |  |  |

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| Yr/Month | Fish ID | Ovarian Stage (I-V) | # Stage I Oocytes | # Stage II Oocytes | # Stage III Oocytes | # Stage IV Oocytes | Total # Oocytes |
| 14-Mar | HAC01 | III | 285 | 261 | 188 |  | 734 |
| 14-Mar | HAC02 | III | 470 | 396 | 10 |  | 876 |
| 14-Mar | HAC03 |  |  |  |  |  |  |
| 14-Mar | HAC04 |  |  |  |  |  |  |
| 14-Mar | HAC05 |  |  |  |  |  |  |
| 14-Mar | HAC06 |  |  |  |  |  |  |
| 14-Mar | HAC07 |  |  |  |  |  |  |
| 14-Mar | HAC08 |  |  |  |  |  |  |
| 14-Mar | HAC09 | IV | 81 | 885 | 277 | 59 | 1302 |
| 14-Mar | HAC10 | III | 531 | 699 | 73 | 17 | 1320 |
| 14-Mar | HAC11 | IV | 545 | 1202 | 385 | 14 | 2146 |
| 14-Mar | HAC12 | III | 401 | 557 | 387 | 38 | 1383 |
| 14-Mar | HAC13 |  |  |  |  |  |  |
| 14-Mar | HAC14 | III | 512 | 407 | 216 |  | 1135 |
| 14-Apr | HAD01 |  |  |  |  |  |  |
| 14-Apr | HAD02 |  |  |  |  |  |  |
| 14-Apr | HAD03 | IV | 143 | 250 | 845 | 73 | 1311 |
| 14-Apr | HAD04 |  |  |  |  |  |  |
| 14-Apr | HAD05 | IV | 195 | 155 | 917 | 25 | 1292 |
| 14-Apr | HAD06 |  |  |  |  |  |  |
| 14-Apr | HAD07 |  |  |  |  |  |  |
| 14-Apr | HAD08 |  |  |  |  |  |  |
| 14-Apr | HAD09 |  |  |  |  |  |  |
| 14-Apr | HAD10 | IV | 166 | 121 | 977 | 125 | 1389 |
| 14-Apr | HAD11 |  |  |  |  |  |  |
| 14-Apr | HAD12 |  |  |  |  |  |  |
| 14-Apr | HAD13 |  |  |  |  |  |  |
| 14-Apr | HAD14 |  |  |  |  |  |  |
| 14-Apr | HAD15 | IV | 150 | 207 | 730 | 64 | 1151 |
| 14-Apr | HAD16 |  |  |  |  |  |  |
| 14-Apr | HAD17 |  |  |  |  |  |  |
| 14-Apr | HAD18 | III | 612 | 88 | 303 | 2 | 1005 |
| 14-Apr | HAD19 |  |  |  |  |  |  |
| 14-Apr | HAD20 |  |  |  |  |  |  |
| 14-May | HAE01 |  | 372 | 854 | 1282 | 58 | 2566 |
| 14-May | HAE02 |  | 267 | 413 | 753 | 48 | 1481 |
| 14-May | HAE03 |  |  |  |  |  |  |
| 14-May | HAE04 |  |  |  |  |  |  |

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| Yr/Month | Fish ID | Ovarian Stage (I-V) | # Stage I Oocytes | # Stage II Oocytes | # Stage III Oocytes | # Stage IV Oocytes | Total # Oocytes |
| 14-May | HAE05 | IV | 113 | 362 | 577 | 189 | 1241 |
| 14-May | HAE06 | IV | 219 | 264 | 525 | 33 | 1041 |
| 14-May | HAE07 | IV | 88 | 426 | 596 | 137 | 1247 |
| 14-May | HAE08 |  |  |  |  |  |  |
| 14-May | HAE09 |  |  |  |  |  |  |
| 14-May | HAE10 |  |  |  |  |  |  |
| 14-May | HAE11 |  |  |  |  |  |  |
| 14-May | HAE12 |  |  |  |  |  |  |
| 14-May | HAE13 | IV | 155 | 426 | 372 | 50 | 1003 |
| 14-May | HAE14 |  |  |  |  |  |  |
| 14-May | HAE15 |  |  |  |  |  |  |
| 14-May | HAE16 |  |  |  |  |  |  |
| 14-May | HAE17 | IV | 250 | 399 | 313 | 53 | 1015 |
| 14-May | HAE18 |  |  |  |  |  |  |
| 14-May | HAE19 | IV | 471 | 281 | 388 | 21 | 1161 |
| 14-May | HAE20 | III | 260 | 415 | 297 | 26 | 998 |
| 14-May | HAE21 |  |  |  |  |  |  |
| 14-May | HAE22 |  |  |  |  |  |  |
| 14-May | HAE23 |  |  |  |  |  |  |
| 14-May | HAE24 |  |  |  |  |  |  |
| 14-May | HAE25 |  |  |  |  |  |  |
| 14-May | HAE26 |  |  |  |  |  |  |
| 14-May | HAE27 |  |  |  |  |  |  |
| 14-May | HAE28 | IV | 508 | 416 | 268 | 8 | 1200 |
| 14-May | HAE29 | V | 292 | 270 | 252 | 35 | 849 |
| 14-May | HAE30 |  |  |  |  |  |  |
| 14-May | HAE31 | IV | 208 | 324 | 259 | 72 | 863 |
| 14-May | HAE32 | IV | 210 | 404 | 516 | 23 | 1153 |
| 14-May | HAE33 |  |  |  |  |  |  |
| 14-May | HAE34 |  |  |  |  |  |  |
| 14-May | HAE35 |  |  |  |  |  |  |
| 14-May | HAE36 |  |  |  |  |  |  |
| 14-May | HAE37 |  |  |  |  |  |  |
| 14-May | HAE38 | V | 197 | 187 | 9 | 2 | 395 |
| 14-May | HAE39 | V | 109 | 222 | 227 | 19 | 577 |
| 14-May | HAE40 |  |  |  |  |  |  |
| 14-May | HAE41 |  |  |  |  |  |  |
| 14-May | HAE42 | IV | 118 | 83 | 158 | 14 | 373 |
| 14-May | HAE43 |  |  |  |  |  |  |

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| Yr/Month | Fish ID | Ovarian Stage (I-V) | # Stage I Oocytes | # Stage II Oocytes | # Stage III Oocytes | # Stage IV Oocytes | Total # Oocytes |
| 14-Jun | HAF01 | V | 401 | 106 | 8 |  | 515 |
| 14-Jun | HAF02 |  |  |  |  |  |  |
| 14-Jun | HAF03 | V | 257 | 578 | 21 | 4 | 860 |
| 14-Jun | HAF04 |  |  |  |  |  |  |
| 14-Jun | HAF05 |  |  |  |  |  |  |
| 14-Jun | HAF06 |  |  |  |  |  |  |
| 14-Jun | HAF07 |  |  |  |  |  |  |
| 14-Jun | HAF08 |  |  |  |  |  |  |
| 14-Jun | HAF09 | V | 262 | 390 | 179 | 8 | 839 |
| 14-Jun | HAF10 |  |  |  |  |  |  |
| 14-Jun | HAF11 | V | 11 | 73 | 335 | 83 | 502 |
| 14-Jun | HAF12 |  |  |  |  |  |  |
| 14-Jun | HAF13 | V | 231 | 245 | 104 | 68 | 648 |
| 14-Jun | HAF14 |  |  |  |  |  |  |
| 14-Jun | HAF15 |  |  |  |  |  |  |
| 14-Jun | HAF16 | V | 251 | 258 | 140 |  | 649 |
| 14-Jun | HAF17 |  |  |  |  |  |  |
| 14-Jun | HAF18 |  |  |  |  |  |  |
| 14-Jun | HAF19 | IV |  |  |  |  |  |
| 14-Jun | HAF20 |  |  |  |  |  |  |
| 14-Jun | HAF21 |  |  |  |  |  |  |
| 14-Jun | HAF22 |  |  |  |  |  |  |
| 14-Jun | HAF23 |  |  |  |  |  |  |
| 14-Jun | HAF24 |  |  |  |  |  |  |
| 14-Jul | HAG01 | V | 214 | 132 | 211 | 32 | 589 |
| 14-Jul | HAG02 | V | 2 | 307 | 753 | 73 | 1135 |
| 14-Jul | HAG03 |  |  | 69 | 746 | 23 | 838 |
| 14-Jul | HAG04 |  |  |  |  |  |  |
| 14-Jul | HAG05 |  |  |  |  |  |  |
| 14-Jul | HAG06 |  |  |  |  |  |  |
| 14-Jul | HAG07 |  |  |  |  |  |  |
| 14-Jul | HAG08 | V | 1 | 9 | 587 | 26 | 623 |
| 14-Jul | HAG09 |  |  |  |  |  |  |
| 14-Jul | HAG10 |  |  |  |  |  |  |
| 14-Jul | HAG11 |  |  |  |  |  |  |
| 14-Jul | HAG12 |  |  |  |  |  |  |
| 14-Jul | HAG13 |  |  |  |  |  |  |
| 14-Jul | HAG14 |  |  |  |  |  |  |
| 14-Jul | HAG15 |  |  |  |  |  |  |

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| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 13-May | HAEE01 |  |  |  |  | 21.9 | 1177 |
| 13-May | HAEE02 |  |  |  |  | 21.9 | 1177 |
| 13-May | HAEE03 |  |  |  |  | 21.9 | 1177 |
| 13-May | HAEE04 | 0.485 | 0.5652 | 0.875 | 1.003 | 21.9 | 1177 |
| 13-May | HAEE05 | 0.4053 | 0.4905 | 0.7128 | 1.02 | 21.9 | 1177 |
| 13-May | HAEE06 |  |  |  |  | 21.9 | 1177 |
| 13-May | HAEE07 |  |  |  |  | 21.9 | 1177 |
| 13-May | HAEE08 |  |  |  |  | 21.9 | 1177 |
| 13-May | HAEE09 |  |  |  |  | 21.9 | 1177 |
| 13-Jun | HAFF01 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF02 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF03 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF04 | 0.387 | 0.4183 | 0.5569 | 0.9505 | 25.7 | 417.5 |
| 13-Jun | HAFF05 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF06 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF07 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF08 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF09 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF10 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF11 | 0.4716 | 0.6367 | 0.7707 | 0.9228 | 25.7 | 417.5 |
| 13-Jun | HAFF12 | 0.4482 | 0.5379 | 0.7303 | 0.9097 | 25.7 | 417.5 |
| 13-Jun | HAFF13 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF14 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF15 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF16 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF17 | 0.469 | 0.6361 | 0.9176 | 1.0406 | 25.7 | 417.5 |
| 13-Jun | HAFF18 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF19 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF20 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF21 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF22 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF23 |  | 0.5873 | 0.7571 | 0.8771 | 25.7 | 417.5 |
| 13-Jun | HAFF24 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF25 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF26 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF27 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF28 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF29 |  |  |  |  | 25.7 | 417.5 |

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| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 13-Jun | HAFF30 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF31 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF32 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF33 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF34 |  |  |  |  | 25.7 | 417.5 |
| 13-Jun | HAFF35 | 0.3858 | 0.5087 | 0.6855 | 0.7853 | 25.7 | 417.5 |
| 13-Jul | HAGG01 |  |  |  |  | 26.4 | 934.6 |
| 13-Jul | HAGG02 | 0.317 | 0.472 | 0.6886 |  | 26.4 | 934.6 |
| 13-Aug | HAH01 | 0.2661 | 0.5165 | 0.5932 |  | 25.1 | 818.8 |
| 13-Aug | HAH02 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH03 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH04 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH05 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH06 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH07 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH08 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH09 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH10 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH11 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH12 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH13 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH14 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH15 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH16 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH17 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH18 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH19 | 0.333 | 0.5041 | 0.6758 | 0.871 | 25.1 | 818.8 |
| 13-Aug | HAH20 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH21 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH22 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH23 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH24 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH25 | 0.3415 | 0.456 | 0.5964 |  | 25.1 | 818.8 |
| 13-Aug | HAH26 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH27 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH28 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH29 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH30 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH31 |  |  |  |  | 25.1 | 818.8 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 13-Aug | HAH32 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH33 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH34 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH35 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH36 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH37 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH38 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH39 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH40 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH41 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH42 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH43 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH44 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH45 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH46 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH47 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH48 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH49 |  |  |  |  | 25.1 | 818.8 |
| 13-Aug | HAH50 |  |  |  |  | 25.1 | 818.8 |
| 13-Sep | HAI01 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI02 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI03 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI04 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI05 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI06 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI07 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI08 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI09 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI10 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI11 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI12 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI13 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI14 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI15 |  |  |  |  | 22 | 262.4 |
| 13-Sep | HAI16 |  |  |  |  | 22 | 262.4 |
| 13-Oct | HAJ01 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ02 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ03 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ05 |  |  |  |  | 14.4 | 159.6 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 13-Oct | HAJ04 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ06 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ07 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ08 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ09 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ10 |  |  |  |  | 14.4 | 159.6 |
| 13-Oct | HAJ11 |  |  |  |  | 14.4 | 159.6 |
| 13-Nov | HAK01 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK02 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK03 | 0.3225 | 0.5185 | 0.8034 |  | 15.3 | 249.7 |
| 13-Nov | HAK04 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK05 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK06 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK07 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK08 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK09 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK10 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK11 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK12 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK13 | 0.3317 | 0.4287 |  |  | 15.3 | 249.7 |
| 13-Nov | HAK14 | 0.3563 | 0.3825 |  |  | 15.3 | 249.7 |
| 13-Nov | HAK15 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK16 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK17 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK18 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK19 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK20 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK21 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK22 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK23 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK24 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK25 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK26 |  |  |  |  | 15.3 | 249.7 |
| 13-Nov | HAK27 |  |  |  |  | 15.3 | 249.7 |
| 13-Dec | HAL01 | 0.362 | 0.401 |  |  | 13 | 1140 |
| 13-Dec | HAL02 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL03 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL04 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL05 |  |  |  |  | 13 | 1140 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 13-Dec | HAL06 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL07 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL08 | 0.4183 | 0.4034 |  |  | 13 | 1140 |
| 13-Dec | HAL09 | 0.4092 | 0.413 |  |  | 13 | 1140 |
| 13-Dec | HAL10 | 0.4703 | 0.4527 | 0.7018 |  | 13 | 1140 |
| 13-Dec | HAL11 | 0.342 |  |  |  | 13 | 1140 |
| 13-Dec | HAL12 | 0.3943 | 0.4047 |  |  | 13 | 1140 |
| 13-Dec | HAL13 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL14 | 0.355 | 0.429 |  |  | 13 | 1140 |
| 13-Dec | HAL15 | 0.353 |  |  |  | 13 | 1140 |
| 13-Dec | HAL16 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL17 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL18 | 0.3735 |  |  |  | 13 | 1140 |
| 13-Dec | HAL19 | 0.4027 |  |  |  | 13 | 1140 |
| 13-Dec | HAL20 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL21 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL22 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL23 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL24 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL25 |  |  |  |  | 13 | 1140 |
| 13-Dec | HAL26 |  |  |  |  | 13 | 1140 |
| 14-Jan | HAA01 |  |  |  |  | 8 | 898.2 |
| 14-Jan | HAA02 |  |  |  |  | 8 | 898.2 |
| 14-Feb | HAB01 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB02 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB03 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB04 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB05 | 0.4411 | 0.495 |  |  | 10.2 | 1248 |
| 14-Feb | HAB06 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB07 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB08 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB09 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB10 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB11 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB12 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB13 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB14 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB15 |  |  |  |  | 10.2 | 1248 |
| 14-Feb | HAB16 |  |  |  |  | 10.2 | 1248 |

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| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 14-Mar | HAC01 | 0.4294 | 0.4944 |  |  | 15.6 | 539 |
| 14-Mar | HAC02 | 0.3533 | 0.4931 | 0.501 |  | 15.6 | 539 |
| 14-Mar | HAC03 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC04 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC05 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC06 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC07 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC08 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC09 | 0.4014 | 0.6601 | 1.0303 | 1.1415 | 15.6 | 539 |
| 14-Mar | HAC10 | 0.523 | 0.6595 | 0.6374 | 1.1228 | 15.6 | 539 |
| 14-Mar | HAC11 | 0.5074 | 0.6387 | 0.8455 | 0.8628 | 15.6 | 539 |
| 14-Mar | HAC12 | 0.5061 | 0.6114 | 0.8026 | 0.8627 | 15.6 | 539 |
| 14-Mar | HAC13 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC14 | 0.461 | 0.522 | 0.788 |  | 15.6 | 539 |
| 14-Apr | HAD01 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD02 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD03 | 0.4885 | 0.6205 | 1.0505 | 1.1922 | 17.2 | 1094 |
| 14-Apr | HAD04 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD05 | 0.4658 | 0.6049 | 1.0394 | 1.1116 | 17.2 | 1094 |
| 14-Apr | HAD06 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD07 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD08 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD09 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD10 | 0.4612 | 0.6166 | 0.9104 | 1.0869 | 17.2 | 1094 |
| 14-Apr | HAD11 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD12 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD13 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD14 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD15 | 0.4411 | 0.6263 | 0.7811 | 0.9006 | 17.2 | 1094 |
| 14-Apr | HAD16 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD17 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD18 | 0.4924 | 0.6133 | 0.7733 | 0.9703 | 17.2 | 1094 |
| 14-Apr | HAD19 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD20 |  |  |  |  | 17.2 | 1094 |
| 14-May | HAE01 | 0.4456 | 0.5574 | 0.9411 | 0.9939 | 21.1 | 542.2 |
| 14-May | HAE02 | 0.4703 | 0.6049 | 0.9627 | 1.1167 | 21.1 | 542.2 |
| 14-May | HAE03 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE04 |  |  |  |  | 21.1 | 542.2 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 14-Mar | HAC01 | 0.4294 | 0.4944 |  |  | 15.6 | 539 |
| 14-Mar | HAC02 | 0.3533 | 0.4931 | 0.501 |  | 15.6 | 539 |
| 14-Mar | HAC03 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC04 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC05 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC06 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC07 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC08 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC09 | 0.4014 | 0.6601 | 1.0303 | 1.1415 | 15.6 | 539 |
| 14-Mar | HAC10 | 0.523 | 0.6595 | 0.6374 | 1.1228 | 15.6 | 539 |
| 14-Mar | HAC11 | 0.5074 | 0.6387 | 0.8455 | 0.8628 | 15.6 | 539 |
| 14-Mar | HAC12 | 0.5061 | 0.6114 | 0.8026 | 0.8627 | 15.6 | 539 |
| 14-Mar | HAC13 |  |  |  |  | 15.6 | 539 |
| 14-Mar | HAC14 | 0.461 | 0.522 | 0.788 |  | 15.6 | 539 |
| 14-Apr | HAD01 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD02 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD03 | 0.4885 | 0.6205 | 1.0505 | 1.1922 | 17.2 | 1094 |
| 14-Apr | HAD04 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD05 | 0.4658 | 0.6049 | 1.0394 | 1.1116 | 17.2 | 1094 |
| 14-Apr | HAD06 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD07 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD08 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD09 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD10 | 0.4612 | 0.6166 | 0.9104 | 1.0869 | 17.2 | 1094 |
| 14-Apr | HAD11 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD12 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD13 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD14 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD15 | 0.4411 | 0.6263 | 0.7811 | 0.9006 | 17.2 | 1094 |
| 14-Apr | HAD16 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD17 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD18 | 0.4924 | 0.6133 | 0.7733 | 0.9703 | 17.2 | 1094 |
| 14-Apr | HAD19 |  |  |  |  | 17.2 | 1094 |
| 14-Apr | HAD20 |  |  |  |  | 17.2 | 1094 |
| 14-May | HAE01 | 0.4456 | 0.5574 | 0.9411 | 0.9939 | 21.1 | 542.2 |
| 14-May | HAE02 | 0.4703 | 0.6049 | 0.9627 | 1.1167 | 21.1 | 542.2 |
| 14-May | HAE03 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE04 |  |  |  |  | 21.1 | 542.2 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 14-May | HAE05 | 0.4287 | 0.5724 | 0.9593 | 1.0524 | 21.1 | 542.2 |
| 14-May | HAE06 | 0.4729 | 0.6582 | 0.8666 | 1.0511 | 21.1 | 542.2 |
| 14-May | HAE07 | 0.458 | 0.6211 | 0.9828 | 1.0615 | 21.1 | 542.2 |
| 14-May | HAE08 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE09 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE10 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE11 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE12 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE13 | 0.4664 | 0.627 | 0.8764 | 0.9607 | 21.1 | 542.2 |
| 14-May | HAE14 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE15 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE16 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE17 | 0.4482 | 0.6263 | 0.9749 | 1.0316 | 21.1 | 542.2 |
| 14-May | HAE18 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE19 | 0.4346 | 0.5776 | 0.8601 | 0.9913 | 21.1 | 542.2 |
| 14-May | HAE20 | 0.5249 | 0.6192 | 0.8457 | 0.9351 | 21.1 | 542.2 |
| 14-May | HAE21 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE22 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE23 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE24 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE25 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE26 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE27 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE28 | 0.5152 | 0.6393 | 0.8889 | 0.9851 | 21.1 | 542.2 |
| 14-May | HAE29 | 0.5035 | 0.6075 | 0.8993 | 1.0511 | 21.1 | 542.2 |
| 14-May | HAE30 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE31 | 0.4554 | 0.6445 | 0.9697 | 1.0609 | 21.1 | 542.2 |
| 14-May | HAE32 | 0.4996 | 0.6458 | 0.96 | 1.1428 | 21.1 | 542.2 |
| 14-May | HAE33 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE34 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE35 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE36 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE37 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE38 | 0.4684 | 0.6296 | 0.9914 | 1.0388 | 21.1 | 542.2 |
| 14-May | HAE39 | 0.4716 | 0.6549 | 0.9789 | 1.0765 | 21.1 | 542.2 |
| 14-May | HAE40 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE41 |  |  |  |  | 21.1 | 542.2 |
| 14-May | HAE42 | 0.4742 | 0.6257 | 0.8889 | 1.018 | 21.1 | 542.2 |
| 14-May | HAE43 |  |  |  |  | 21.1 | 542.2 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 14-Jun | HAF01 | 0.344 | 0.3949 | 0.6608 |  | 24.1 | 765.6 |
| 14-Jun | HAF02 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF03 | 0.471 | 0.6679 | 0.8321 | 1.0787 | 24.1 | 765.6 |
| 14-Jun | HAF04 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF05 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF06 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF07 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF08 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF09 | 0.4469 | 0.6549 | 0.7635 | 0.9344 | 24.1 | 765.6 |
| 14-Jun | HAF10 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF11 | 0.417 | 0.4677 | 0.6621 | 0.9665 | 24.1 | 765.6 |
| 14-Jun | HAF12 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF13 | 0.4255 | 0.599 | 0.7193 | 0.8202 | 24.1 | 765.6 |
| 14-Jun | HAF14 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF15 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF16 | 0.5113 | 0.6757 | 0.8273 |  | 24.1 | 765.6 |
| 14-Jun | HAF17 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF18 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF19 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF20 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF21 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF22 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF23 |  |  |  |  | 24.1 | 765.6 |
| 14-Jun | HAF24 |  |  |  |  | 24.1 | 765.6 |
| 14-Jul | HAG01 | 0.4716 | 0.5639 | 0.9418 | 1.0901 | 24.5 | 219.8 |
| 14-Jul | HAG02 | 0.3878 | 0.4918 | 0.6322 | 0.8431 | 24.5 | 219.8 |
| 14-Jul | HAG03 |  | 0.3824 | 0.5587 | 0.8684 | 24.5 | 219.8 |
| 14-Jul | HAG04 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG05 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG06 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG07 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG08 | 0.326 | 0.401 | 0.6933 | 0.8823 | 24.5 | 219.8 |
| 14-Jul | HAG09 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG10 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG11 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG12 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG13 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG14 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG15 |  |  |  |  | 24.5 | 219.8 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Yr/Month | Fish ID | Stage I Avg Diam (mm) | Stage II Avg Diam (mm) | Stage III Avg Diam (mm) | Stage IV Avg Diam (mm) | Water Temp (C) | River Dischare Monthly Mean in ft3/s |
| 14-Jul | HAG16 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG17 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG18 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG19 |  |  |  |  | 24.5 | 219.8 |
| 14-Jul | HAG20 |  |  |  |  | 24.5 | 219.8 |