**Table 3.** Summary of adult offspring assigned to Chinook salmon outplanted above Detroit Dam (Outplant), salmon reintroduced below Big Cliff Dam (Reintro.), salmon reintroduced above Detroit Dam (Reintro. Above), or carcasses collected below Big Cliff Dam (Carcass), on the North Santiam River in (a) 2016, (b) 2017, (c) 2018, (d) 2019 and (e) 2020.. Indicated are the total number of putative offspring and parents considered in the pedigree analysis (*N*), summarized by sample type (Reintro. or Carcass), and the number assigned to a parental pair (P), or to a Female (F) or Male (M) parent only. Offspring assigned to parent pairs that included parents from different sample types (Outplant/Reintro., Outplant/Carcass, Reintro./Carcass) are indicated by M/F (male parent from first sample type and female parent from second sample type) or F/M (female parent from first sample type and male parent from second sample type).

1. 2016

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Offspring |  |  | Parents | | | | | | |  |
|  |  | 2011 | | 2012 | | 2013 | | | Assigned (%) |
|  |  | Outplant | Carcass | Outplant | Carcass | Outplant | Reintro. | Carcass |
| Sample type | *N* | (*N* = 149) | (*N* = 197) | (*N* = 258) | (*N* = 84) | (*N* = 1125) | (*N* = 554) | (*N* = 39) |
| P F M | P F M | P F M | P F M | P F M | P F M | P F M |
| Reintro. | 520 | 32 7 4 | 1 3 0 | 69 14 3 | 0 6 6 | 5 7 11 | 3 8 5 | 0 0 1 | 185 (36%) |
| Carcass | 19 | 0 0 0 | 0 1 0 | 0 0 0 | 0 1 1 | 0 0 1 | 0 0 1 | 0 1 0 | 6 (31%) |
| **Total** | **539** | **32 7 4** | **1 4 0** | **69 14 3** | **0 7 7** | **5 7 12** | **3 8 6** | **0 1 1** | **191 (35%)** |

1. 2017

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Offspring |  |  | Parents | | | | | | | |  |
|  |  | 2012 | | 2013 | | | 2014 | | | Assigned (%) |
|  |  | Outplant | Carcass | Outplant | Reintro. | Carcass/ Reintro | Outplant | Reintro. | Carcass |
| Sample type | *N* | (*N* = 258) | (*N* = 84) | (N = 1125) | (*N* = 554) | (*N* = 39/554) | (N = 861) | (*N* = 754) | (*N* = 46) |
| P F M | P F M | P F M | P F M | M/F F/M | P F M | P F M | P F M |
| Reintro. | 505 | 66 10 1 | 1 2 4 | 147 11 12 | 37 7 16 | 0 0 | 2 3 2 | 8 3 3 | 0 1 1 | 337 (67%) |
| Carcass | 14 | 0 0 1 | 0 0 0 | 1 0 1 | 0 0 1 | 0 1 | 0 0 0 | 0 0 1 | 0 0 0 | 6 (42%) |
| ***Total*** | ***519*** | ***66 10 2*** | ***1 2 4*** | ***148 11 13*** | ***37 7 17*** | ***0 1*** | ***2 3 2*** | ***8 3 4*** | ***0 1 1*** | ***343 (66%)*** |

1. 2018

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Offspring |  |  | Parents | | | | | | | | | | |  |
|  |  | 2013 | | | 2014 | | | 2015 | | | | | Assigned (%) |
|  |  | Outplant | Reintro. | Carcass | Outplant | Reintro. | Carcass | Outplant | Reintro. Above | Outplant/ Reintro. Above | Reintro. Below | Carcass |
| Sample type | *N* | (*N* = 1125) | (*N* = 554) | (*N* = 39) | (*N* = 861) | (*N* = 754) | (*N* = 46) | (N = 1042) | (N = 431) |  | (N = 148) | (N = 34) |
| P F M | P F M | P F M | P F M | P F M | P F M | P F M | P F M | M/F F/M | P F M | P F M |
| Reintro. | 248 | 42 2 2 | 8 2 2 | 0 0 0 | 38 2 3 | 11 8 6 | 0 0 0 | 9 3 4 | 2 6 2 | 1 3 | 14 3 5 | 0 0 0 | 178 (72%) |
| Carcass | 3 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 1 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 | 0 0 0 | 0 0 1 | 1 (33%) |
| ***Total*** | ***251*** | ***42 2 2*** | ***8 2 2*** | ***0 0 0*** | ***38 2 4*** | ***11 8 6*** | ***0 0 0*** | ***9 3 4*** | ***2 6 2*** | ***1 3*** | ***14 3 5*** | ***0 0 0*** | ***179 (71%)*** |

1. 2019

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Offspring |  |  |  | Parents | | | | | | | | | | | | |  |
|  |  | 2014 | | |  | 2015 | | | | | | | 2016 | | | Assigned (%) |
|  |  | Outplant | Reintro. | Carcass | Outplant | Reintro. Above | Outplant/ Reintro. Above | Outplant/ Carcass | Reintro. Above/ Carcass | Reintro. Below | Reintro Below / Carcass | Carcass | Outplant | Reintro. | Carcass |
| Sample type | *N* | (*N* =  861) | (*N* = 754) | (*N* =  46) | (*N* =  1042) | (*N* =  431) |  |  |  | (*N* = 148) |  | (*N* =  34) | (*N* = 1310) | (*N* = 520) | (*N* =  19) |
| P F M | P F M | P F M | P F M | P F M | M/F F/M | M/F F/M | M/F F/M | P F M | M/F F/M | P F M | P F M | P F M | P F M |
| Reintro. | 813 | 23 2 10 | 3 3 4 | 0 0 0 | 157 28 20 | 90 26 30 | 17 102 | 1 0 | 0 1 | 26 18 10 | 0 1 | 0 1 2 | 57 7 9 | 5 4 3 | 0 0 1 | 661 (81%) |
| Carcass | 6 | 0 0 0 | 0 0 0 | 0 0 0 | 0 1 1 | 0 0 0 | 0 0 | 0 0 | 0 0 | 0 1 0 | 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 3 (50%) |
| ***Total*** | ***819*** | ***23 2 10*** | ***3 3 4*** | ***0 0 0*** | ***157 29 21*** | ***90 26 30*** | ***17 102*** | ***1 0*** | ***0 1*** | ***26 19 10*** | ***0 1*** | ***0 1 2*** | ***57 7 9*** | ***5 4 3*** | ***0 0 1*** | ***664 (81%)*** |

1. 2020

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Offspring |  |  |  |  | | Parents | | | | | | | | | | | | | |
|  |  |  | | 2015 | | | | | | | | 2016 | | | 2017 | | |  |
|  |  | Outplant | | Reintro. Above | | Outplant/ Reintro. Above | Outplant/ Carcass | Reintro. Above/ Carcass | Reintro. Below | Reintro Below / Carcass | Carcass | Outplant | Reintro. | Carcass | Outplant | Reintro. | Carcass |  |
| Sample type | *N* | (*N* =  1042) | | (*N* =  431) | |  |  |  | (*N* = 148) |  | (*N* =  34) | (*N* = 1310) | (*N* = 520) | (*N* =  19) | (*N* = 1604) | (N = 505) | (*N* = 14) | Assigned (%) |
| P F M | | P F M | | M/F F/M | M/F F/M | M/F F/M | P F M | M/F F/M | P F M | P F M | P F M | P F M | P F M | P F M | P F M |  |
| Reintro | 1593 | 55 21 19 | | 34 13 11 | | 8 48 | 0 0 | 0 2 | 1 1 3 | 0 0 | 0 0 0 | 983 75 43 | 67 22 17 | 0 3 1 | 7 1 1 | 7 3 3 | 0 0 0 | 1449 (91%) |