**2014 Port Gamble seed vs wild**

P-value across all loci

(Fisher's method)

-----------------------------------------------------

Locus P-Value

------------- --------

Olur10 0.23431

Olur11 0.08533

Olur12 0.3782

Olur13 6e-05

Olur15 9e-05

Olur17 0.78623

Olur18 0.00423

All: Chi2= 59.2552 (df= 14), P-value= 1.58415e-07

Normal ending.

SS

**2014 South Sound seed vs wild**

P-value across all loci

(Fisher's method)

-----------------------------------------------------

Locus P-Value

------------- --------

Olur10 0.00589

Olur11 0.08276

Olur12 0.08509

Olur13 0.33546

Olur15 0.40096

Olur17 0.01866

Olur18 0.11308

All: Chi2= 36.5151 (df= 14), P-value= 0.000873228

Normal ending.

**2010 Budd Inlet seed vs wild**

P-value across all loci

(Fisher's method)

-----------------------------------------------------

Locus P-Value

------------- --------

Olur10 0.12648

Olur11 0.30144

Olur12 0.05675

Olur13 0.52318

Olur15 0.41777

Olur17 0.00216

Olur18 0.00256

All: Chi2= 39.524 (df= 14), P-value= 0.000302562

Normal ending.

**2011 Budd Inlet seed vs wild**

P-value across all loci

(Fisher's method)

-----------------------------------------------------

Locus P-Value

------------- --------

Olur10 0.00663

Olur11 0.22946

Olur12 0.01095

Olur13 0.01624

Olur15 0.00054

Olur17 0.00011

Olur18 0.09468

All: Chi2= 68.2382 (df= 14), P-value= 4.01679e-09

Normal ending.

**Commercially produced seed vs wild—south sound**

P-value across all loci

(Fisher's method)

-----------------------------------------------------

Locus P-Value

------------- --------

Olur10 0.64492

Olur11 0.11704

Olur12 0.13112

Olur13 0.79403

Olur15 0.19717

Olur17 0.77288

Olur18 0.71293

All: Chi2= 14.1317 (df= 14), P-value= 0.439948

**2016 Fidalgo Bay seed vs wild**

P-value across all loci

(Fisher's method)

-----------------------------------------------------

Locus P-Value

------------- --------

Olur10 0.32784

Olur11 0.54191

Olur12 0.67662

Olur13 0.08560

Olur15 0.06505

Olur17 unusable

Olur18 unusable

Olur19 0.15165

All: Chi2= 18.39076 (df= 12), P-value= 0.104331

Normal ending.

Gene diversity per locus and population :

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Locus** | **2010 seed** | **Budd**  **Wild** | **2011 seed** | **2011 Comm.** | **Port Gamble seed 2014** | **Port Gamble wild** | **South sound seed 2014** | **South sound wild** | **Fidalgo Bay seed 2016** | **Fidalgo Bay wild 2017** |
| Olur10 | 0.922 | 0.938 | 0.925 | 0.947 | 0.933 | 0.935 | 0.929 | 0.935 |  |  |
| Olur11 | 0.800 | 0.779 | 0.734 | 0.789 | 0.787 | 0.749 | 0.787 | 0.759 |  |  |
| Olur12 | 0.827 | 0.837 | 0.823 | 0.831 | 0.829 | 0.836 | 0.846 | 0.830 |  |  |
| Olur13 | 0.930 | 0.926 | 0.923 | 0.932 | 0.923 | 0.933 | 0.932 | 0.937 |  |  |
| Olur15 | 0.930 | 0.924 | 0.922 | 0.932 | 0.922 | 0.933 | 0.933 | 0.937 |  |  |
| Olur17 | 0.925 | 0.938 | 0.923 | 0.931 | 0.917 | 0.928 | 0.930 | 0.934 | - | - |
| Olur18 | 0.903 | 0.936 | 0.918 | 0.921 | 0.916 | 0.931 | 0.927 | 0.924 | - | - |
| Olur19 | - | - | - | - | - | - | - | - |  |  |

Number of alleles sampled :

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Locus** | **2010 seed** | **Budd wild** | **2011 seed** | **2011 Comm.** | **Port Gamble seed 2014** | **Port Gamble wild** | **South sound seed 2014** | **South sound wild** | **Fidalgo Bay seed 2016** | **Fidalgo Bay wild 2017** |
| Olur10 | 26 | 24 | 27 | 30 | 24 | 30 | 29 | 29 |  |  |
| Olur11 | 10 | 12 | 10 | 13 | 15 | 13 | 12 | 12 |  |  |
| Olur12 | 15 | 12 | 15 | 12 | 13 | 14 | 13 | 12 |  |  |
| Olur13 | 18 | 19 | 19 | 20 | 20 | 18 | 20 | 18 |  |  |
| Olur15 | 19 | 18 | 19 | 20 | 20 | 18 | 20 | 18 |  |  |
| Olur17 | 20 | 22 | 19 | 21 | 21 | 25 | 22 | 23 | - | - |
| Olur18 | 26 | 27 | 25 | 27 | 28 | 27 | 26 | 30 | - | - |
| Olur19 | - | - | - | - | - | - | - | - |  |  |

Allelic Richness per locus and population (based on min number)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2010 seed**  **(87)** | **Budd wild**  **(87)** | **2011 seed (87)** | **2011 Comm (87)** | **Port Gamble seed (90)** | **Port Gamble wild (90)** | **South sound seed (94)** | **South sound wild (94)** | **Fidalgo Bay seed 2016** | **Fidalgo Bay wild 2017** |
| Olur10 | 24.546 | 23.866 | 25.320 | 29.609 | 24.000 | 29.322 | 28.750 | 28.743 |  |  |
| Olur11 | 9.917 | 11.910 | 9.446 | 12.802 | 14.830 | 12.635 | 11.958 | 11.927 |  |  |
| Olur12 | 13.265 | 11.977 | 13.339 | 11.943 | 12.966 | 13.726 | 12.876 | 11.990 |  |  |
| Olur13 | 17.519 | 18.954 | 18.125 | 19.910 | 19.967 | 17.999 | 19.989 | 18.000 |  |  |
| Olur15 | 18.137 | 17.955 | 18.125 | 19.867 | 19.871 | 17.999 | 19.989 | 18.000 |  |  |
| Olur17 | 19.081 | 22.000 | 17.837 | 20.802 | 20.868 | 24.280 | 21.906 | 22.741 | - | - |
| Olur18 | 22.297 | 26.729 | 22.645 | 26.214 | 28.000 | 26.261 | 26.000 | 29.616 | - | - |
| Olur19 | - | - | - | - | - | - | - | - |  |  |

FSTAT results

|  |  |  |  |
| --- | --- | --- | --- |
| **Group** | **Fst** | **95% CI** | **Variance component** |
| 2010 | 0.003 | 0.001-0.004 | 0.016 |
| 2011 | 0.004 | 0.002-0.006 | 0.025 |
| Commercial 2011 | 0 | -0.001-0.002 | 0 |
| Port Gamble 2014 | 0.004 | 0.001-0.007 | 0.027 |
| South Sound 2014 | 0.002 | 0-0.002 | 0.014 |

Jost’s D’

|  |  |
| --- | --- |
| **Group** | **D’** |
| 2010 | 0 |
| 2011 | 0.03 |
| Commercial 2011 | 0 |
| Port Gamble 2014 | 0 |
| South Sound 2014 | 0 |

Relatedness

South Sound

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Group** |  | **Wang** | **LynchLi** | **LynchRd** | **Ritland** | **QuellerGt** |
| Seed | Mean | -0.0004 | -0.00631 | -0.00255 | -0.00343 | -0.00516 |
| n=4656 | Variance | 0.02045 | 0.02125 | 0.01021 | 0.00997 | 0.01969 |
|  |  |  |  |  |  |  |
| Wild | Mean | -0.00287 | -0.00131 | -0.00322 | -0.00296 | -0.0006 |
| n=4950 | Variance | 0.01799 | 0.01924 | 0.00903 | 0.00802 | 0.01846 |

Port Gamble

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Group** |  | **Wang** | **LynchLi** | **LynchRd** | **Ritland** | **QuellerGt** |
| Seed | Mean | 0.00902 | 0.00523 | -0.00104 | -0.00209 | 0.00181 |
| n=4371 | Variance | 0.02432 | 0.02463 | 0.01145 | 0.00818 | 0.02302 |
|  |  |  |  |  |  |  |
| Wild | Mean | -0.00648 | -0.00463 | -0.00313 | -0.00255 | -0.00319 |
| n=4950 | Variance | 0.01942 | 0.01998 | 0.00903 | 0.00743 | 0.01923 |