SECOND ANNUAL
INTERNATIONAL SCIENTIFIC WORKSHOP

SAMPLING FOR POPULATION GENOMICS AND
THE INTEGRATED GENOMIC LANDSCAPE MAP

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Darryl Edwards, Tyler Watson, Matt Ferguson
Integrated Sampling, Pre- and Post-2007 Flight
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17 landscapes ➔ 2-5 stands ➔ 12-24 pines/stand ➔ coupled samples
Integrated Sampling, Pre- and Post-2007 Flight

17 landscapes → 2-5 stands → 12-24 pines/stand → coupled samples
Integrated Sampling, Pre- and Post-2007 Flight

- **Pines**
  - 473 attacked pines
  - 570 unattacked pines

- **MPB**
  - 3283 MPB larvae and adults

- **MPB Fungal Associates**
  - 5033 fungal isolates
  - 500 single spore isolate
Additional sampling for individual organisms
Additional sampling for individual organisms

**Pines**
- 473 attacked pines
- 570 unattacked pines
- 500 pines from outside MPB zone

**MPB**
- 3283 MPB larvae and adults
- 1610 MPB sampled independently of pines & fungi

**MPB Fungal Associates**
- 5033 fungal isolates
- 500 single spore isolates
- Additional samples from other studies
Sample Database

Mountain Pine Beetle

Welcome Dominik

Field Sample

Roll over the row and click to view and edit a field sample

Total Records: 4382; records/page: 10.0

<table>
<thead>
<tr>
<th>Code</th>
<th>Landscape &amp; Stand</th>
<th>Field Tree</th>
<th>Field Collection</th>
<th>Individual</th>
<th>Gallery</th>
<th>Collecting Date</th>
<th>Collecting People</th>
<th>Processed Date</th>
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Planned additional sampling in regions of outbreak expansion to add a temporal component to the IGLM