

Eucalyptus ID numbers

- ▶ accessions: A20001–A30000
 - ▶ *E. marginata* A20001–A25000
 - ▶ *E. melliodora* A25001–A30000
- ▶ plants: P30001–P40000
 - ▶ *E. marginata* P30001–P35000
 - ▶ *E. melliodora* P35001–P40000
- ▶ samples: S40001–S50000
 - ▶ *E. marginata* S40001–S45000
 - ▶ *E. melliodora* S45001–S50000
- ▶ experiments
 - ▶ BVZ0057 & BVZ0058 (*E. melliodora* germination)
 - ▶ BVZ0059 & BVZ0060 (*E. melliodora* growth)
 - ▶ (previous experiment 21, with plants 5301–5459)

Sample List–*E. melliodora*

- ▶ *** leaf tissue from provenance trials ***
- ▶ *** adult leaf tissue from Linda ***
- ▶ seedlings (seeds from Linda/ATSC, Tricia grew)
- ▶ adult leaves from Jan 2015 collecting trip
- ▶ old half plate of adult trees from Linda
- ▶ samples collected by Nicholas
- ▶ Amanda's collection

Provenance Trials—*E. melliodora*

- ▶ leaf samples from trees from provenance trials
 - ▶ 20 provenances
 - ▶ 2 sites
 - ▶ 12 replicates of provenance per site
- ▶ SampleIDs = S45911 – S46390
- ▶ sequenced with GBS (PstI)
- ▶ 5 plates, sequenced in 1 lane, twice on the NextSeq
 - ▶ LaneNames=Emel_prov_rep1, Emel_prov_rep2
 - ▶ LaneNumber=L00006, L00007
- ▶ XXX samples for analysis
 - ▶ 480 samples total
 - ▶ XXX failed during sequencing

Leaves from Linda's Populations—*E. melliodora*

- ▶ leaf samples from mature trees across the range
 - ▶ 39 populations, 3-10 trees per population (most have 10)
 - ▶ one population is geographic outlier (WA)
 - ▶ all 10 of 1 population misidentified
 - ▶ 8 of 10 of another population misidentified
- ▶ SampleIDs = S45001 – S45379
- ▶ sequenced with GBS (PstI)
- ▶ 4 plates, sequenced in 1 lane
 - ▶ LaneName=Emel_lb1234
 - ▶ LaneNumber=L00002
- ▶ XXX samples for analysis
 - ▶ 379 samples total
 - ▶ 11 samples failed during sequencing
 - ▶ 19 samples likely not yellowbox

Tricia's seedlings—*E. melliodora*

- ▶ seedlings grown in glasshouse
- ▶ seeds mostly from Linda's Populations
- ▶ SampleIDs = S45380 – S45910
- ▶ sequenced with GBS (PstI)
- ▶ 6 plates, sequenced in 2 lanes
 - ▶ LaneNames=Emel_lb003AB_Brachy, Emel_lb56910
 - ▶ LaneNumbers=L00004, L00005
- ▶ 531 samples total
- ▶ each lane had different size selection
- ▶ two plates had substantial (10%) contamination

miscellaneous samples—*E. melliodora*

- ▶ NSW Jan 2015 collecting trip
 - ▶ gps coordinates, some seed
 - ▶ not confident in species IDs
- ▶ other collections
 - ▶ samples from Linda
 - ▶ samples from Nicholas
 - ▶ samples from Amanda

Project List–E. marginata

- ▶ leaf tissue from climatic transects
- ▶ leaf tissue from provenance trials

WA Climate Transects–*E. marginata*

- ▶ leaf samples from transects across climate gradients
 - ▶ 5 transects
 - ▶ 10 multiple sample sites on transects
- ▶ SampleIDs = S40162 – S40447
- ▶ sequenced with GBS (PstI)
- ▶ 3 plates, sequenced in 1 lane (with brachy)
 - ▶ LaneName=Emarg_trans345_Brachy
 - ▶ LaneNumber=L00003
- ▶ XXX samples for analysis
 - ▶ 286 samples total
 - ▶ XXX failed during sequencing
 - ▶ XXX were not *E. marginata*
 - ▶ XX technical replicates

Provenance Trial Collections—*E. marginata*

- ▶ leaf samples from provenance trials
- ▶ sampleIDs = S40001 – S40161
- ▶ sequenced with GBS (PstI)
- ▶ 2 plates, in 1 lane (with *alongifolia*)
 - ▶ LaneName=Emarg_prov12_Alone
 - ▶ LaneNumber=L00001
- ▶ 161 samples
 - ▶ do not have provenance information