

Identification					
Project#	Species	Client ( <a href="#">KEY</a> )	Project Date	Sample Size	Objective
187	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	2005	575 indiv.	Determine the efficacy of supplemental mass pollination methods in a seed orchard.
183	<i>Chamaecyparis lawsoniana</i> (Port-Orford Cedar, POC)	USDA FS - R6	2004	32 indiv.	Identify that seedlings are the progeny of the parent of record, and (2) that the ramets of the parents are genetically identical.
182	<i>Populus nigra</i> <i>Populus deltoides</i> <i>Populus nigra</i> X <i>Populus deltoides</i>	Private	2004	384 indiv.	Polymix breeding with paternity analysis in poplar
170	<i>Erythronium quinaultense</i> <i>E. montanum</i> <i>E. revolutum</i>	USDA FS - R6	2004	44 indiv.	Identify species/ploidy analysis
169	<i>Populus deltoides</i> X <i>P. trichocarpa</i> <i>P. trichocarpa</i> X <i>P. nigra</i>	USDA FS - R6	2004	7 indiv.	DNA fingerprint
168	<i>Pinus virginiana</i> (Virginia pine), <i>Pinus echinata</i> (Shortleaf pine)	USDA FS - R8 /IFG	2004-2005	40 indiv.	Species identification
162	<i>Populus trichocarpa</i> <i>Populus nigra</i> <i>Populus deltoides</i>	Private	2003	96 indiv.	paternity/marker development
161	<i>Chamaecyparis lawsoniana</i> (Port-Orford Cedar, POC)	USDA FS - R6	2003	50 indiv.	Identify parental material and crosses used to test for a major gene type of inheritance for resistance to <i>Phytophthora lateralis</i>
154	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	2003	3 indiv.	Identify clones
148	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	2003	575 indiv.	Determine the efficacy of supplemental mass pollination methods in a seed orchard.
146	<i>Chamaecyparis lawsoniana</i> (Port-Orford Cedar, POC)	USDA FS - R6	2002	19 indiv.	Identify ramets of clones
145	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	2002	5 indiv.	Identify clones
131	<i>Chamaecyparis lawsoniana</i> (Port-Orford Cedar, POC)	USDA FS - R6	2002	31 indiv.	Identify ramets and offspring
129	American Holly ( <i>Ilex opaca</i> ) Canadian Hemlock ( <i>Tsuga canadensis</i> ) Tulip Poplars ( <i>Liriodendron tulipifera</i> ) White Ash ( <i>Fraxinus americana</i> ) White Mulberry ( <i>Morus alba</i> )	Private	2002	15 indiv.	Identify clones and supply DNA fingerprints
127	<i>Pinus taeda</i> (loblolly pine)	USDA FS IFG -R5	2002	12 indiv.	Identify segregating alleles for CAD
123	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	2001	399 meg/ embryo pairs	identify contamination

122	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	2001	16 indiv.	identify clone/contamination
112	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	2001	44 indiv.	identify clone/contamination
103	<i>Pinus ponderosa</i> (ponderosa pine)	USDA FS RMRS -R1	2001- 2003	928 indiv.	characterize the genetic diversity in seed sources to identify offsite plantings
102	<i>Chamaecyparis lawsoniana</i> (Port-Orford Cedar, POC) <i>Chamaecyparis obtusa</i> <i>Chamaecyparis nootkatensis</i> (Alaskan Yellow Cedar, AYC) <i>Chamaecyparis thyoides</i>	USDA FS PNW -R6	2001- 2002	52 indiv.	Verify hybrids between species
97	<i>Chamaecyparis lawsoniana</i> (Port Orford Cedar), <i>Chamaecyparis nootkatensis</i> (Alaska Yellow Cedar), <i>Chamaecyparis</i> <i>obtusata</i> , <i>Chamaecyparis thyoides</i> , <i>Cupressus macrocarpa</i> (Monterey cypress), <i>Cupressus torulosa</i> , <i>Leyland</i> <i>cypress</i> , and hybrids	BLM/USDA FS - R6	2001	70 indiv.	Species/ramet/hybrid identification
96	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	200	10 indiv.	Ramet identification
94	<i>Pseudotsuga menziesii</i> (Douglas-fir)	Private	2000	5 indiv., 6 seedlots	Assess pollen contamination.
86/87/88	<i>Chamaecyparis lawsoniana</i> (Port Orford Cedar) <i>Chamaecyparis nootkatensis</i> (Alaska Yellow Cedar)	BLM/USDA FS - R6	1999	53 indiv.	Identify species and hybrids
82	<i>Pinus ponderosa</i> (ponderosa pine)	USDA FS - R1	1999	33 seedlots	Seed source identification, characterize diversity in seed production area
81	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1999	4 seedlots	Seedlot purity identification
77	<i>Sisyrinchium spp.</i>	USDA FS - R6	1999	26 indiv.	Hybrid identification
71	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R5	1998	2 indiv.	Ramet identification
70	<i>Pinus ponderosa</i> (ponderosa pine)	USDA FS - R1	1998	256 indiv.	Seed source identification
69	<i>Pinus jeffreyi</i> / <i>P. ponderosa</i> (Jeffrey / ponderosa pines)	USDA FS - PSW	1997	32 indiv.	Species identification
66	<i>Pinus taeda</i> (loblolly pine)	USDA FS - SRS	1997	61 seedlots	Estimate% pollen contamination in controlled cross treatments
60	<i>Pinus elliotii</i> x <i>P. palustris</i> (slash / longleaf pines)	USDA FS - R8/ SRS	1997	30 indiv.	Identify hybrid individuals
57	<i>Pinus virginiana</i> (Virginia pine)	USDA FS - SRS	1996	3 indiv.	Clonal identification
51	<i>Pinus taeda</i> (loblolly pine)	USDA FS - SRS	1995	3 seedlots	Male parent identification

49	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1995	6 seedlots	Clonal identification
48	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1995	2 seedlots	Seedlot identification
41	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1995	3 indiv.	Ramet identification
38	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R6	1994	373 ramets 5 seedlots	Determine seedlot contamination
37	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1994	6 indiv.	SPBR seedlot identification
35	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1993	6 indiv.	Ramet identification
33	<i>Pinus elliotii</i> (slash pine)	USDA FS - PSW	1994	12 indiv.	Parental identification
32	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R6	1994	2 indiv.	Clonal identification
31	<i>Pinus ponderosa</i> (ponderosa pine)	USDA FS - R5	1993	32 indiv.	Graft identification
28	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R5	1993	4 indiv.	Clonal identification
26	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1992	3 indiv.	Seedlot identification
24	<i>Pinus ponderosa</i> (ponderosa pine), <i>Pinus washoensis</i> (Washoe pine)	USDA FS - R5	1993	15 indiv.	Species identification
22	<i>Pinus banksiana</i> (Jack pine)	USDA FS - R9	1991-92	11 indiv.	Determine seed origin
21	<i>Pinus taeda</i> (loblolly pine)	USDA FS - R8	1991-94	360 clones 523 ramets	Clonal identification
19	<i>Pinus palustris</i> (longleaf pine)	USDA FS - R8	1991	12 indiv.	Ramet identification
18	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R6	1990	22 ramet	Ramet identification
17	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R6	1990-91	35 clones	Ramet identification
14	<i>Larix occidentalis</i> (western larch)	USDA FS - R6	1990	4 seedlots	Seedlot identification
12	<i>Pinus taeda</i> (loblolly pine)	USDA FS - R8	1990	3 seedlots	Clonal identification
11	<i>Pinus taeda</i> (loblolly pine)	USDA FS - R8	1989	4 indiv.	Clonal identification
10	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1989	2 seedlots	Seedlot identification

9	<i>Pinus monticola</i> (western white pine)	USDA FS - R1	1989	67 seedlots	Clonal identification
8	<i>Pinus taeda</i> (loblolly pine)	USDA FS - R8	1989	26 seedlots	Identify contamination in a controlled cross
7	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R6	1989	63 seedlots	Identification of controlled crosses
6	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R6	1989	3 seedlots	Seedlot identification
4	<i>Pinus lambertiana</i> (sugar pine)	USDA FS - R5	1988-89	4 indiv.	Seedlot identification
3	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R6	1989	39 seedlots	Clonal identification
2	<i>Pseudotsuga menziesii</i> (Douglas-fir)	BLM	1989	29 indiv.	Identify ramets, clones, and parents
1	<i>Pseudotsuga menziesii</i> (Douglas-fir)	USDA FS - R6	1989	64 indiv	Distinguish clones from rootstock

## Key

### Agency

USDA FS	USDA Forest Service
R1	Region: Montana, northern Idaho, N. Dakota
R4	Region: Nevada, southern Idaho, Utah
R5	Region: California
R6	Region: Oregon and Washington
R8	Region: southeastern USA
R9	Region: northeastern USA
R10	Region: Alaska
SRS	Southern Research Station
PSW	Pacific Southwest Research Station
CDF	California Department of Forestry
BLM	Bureau of Land Management
USFWS	US Fish and Wildlife Service
CalTrans	California Department of Transportation
private	private company or University