FIA Data Review

Jennifer Truong

9/13/2020

Observing Unique Species

Conifer species we are focusing on for our GP:

| Scientific Name	Common Name	Code
Pinus ponderosa	Ponderosa pine	PIPO
Pinus jeffreyi	Jeffery pine	PIJE
Pinus coulteri	Coulter pine	PICO3
Pinus lambertiana	Sugar pine	PILA
Pseudotsuga macrocarpa	Big cone douglas fir	PSMA
Abies concolor	White fir	ABCO
Calocedrus decurrens	Incense cedar	CADE
Pinus contorta ssp. murrayana	Lodgepole pine	PICO/PICOM

Tree Size Classes

Diameter base height in cm; classes determined from Figure 19 (pg 106 hard-copy and 116 digital) in Safford and Stevens 2017

Use variable DBHI and convert from inches to cm

- 5 - 20 cm
- 20 - 40 cm
- 40 - 60 cm
- 60 - 80 cm
- 80 - 100 cm
- 100 - 120 cm
- 120 - 140 cm
- > 140 cm

ANF Data Analysis

ANF Data Collection Dates
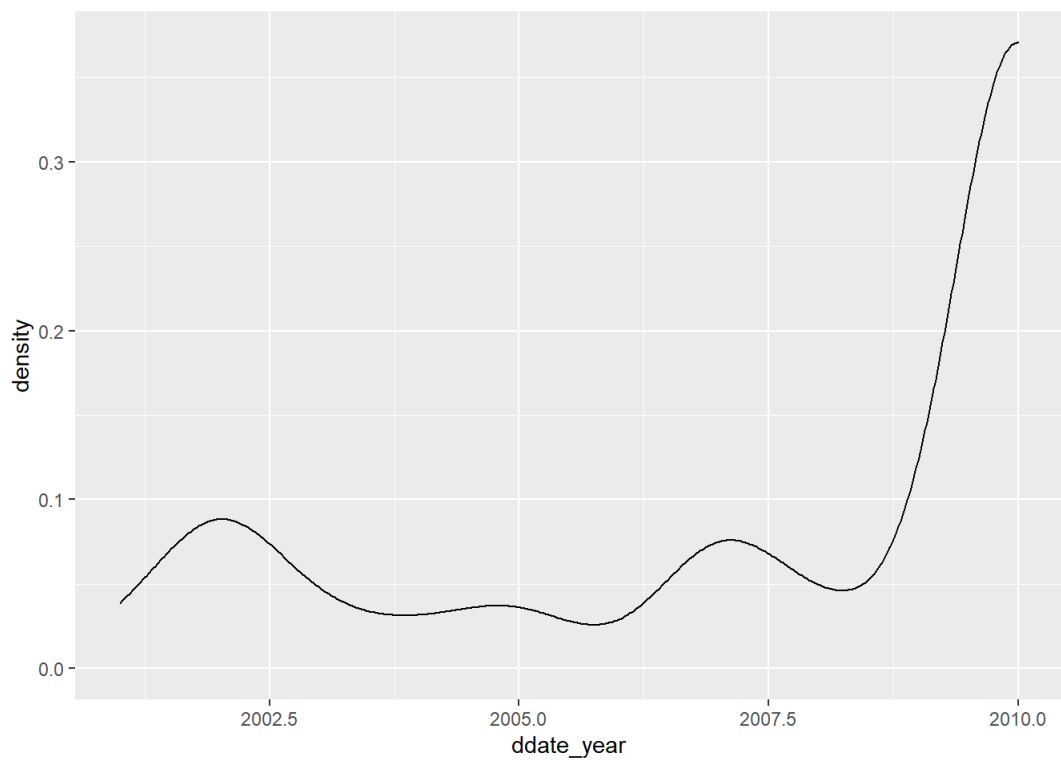
ANF Conifer Count

species	n
ABCO	108
CADE27	21
PICO	24
PICO3	10
PIJE	152
PILA	59
PIPO	2
PSMA	90
QUKE	1

ANF Trees per Plot

plot	species	conifer_n	total_n	pct
001	ABCO	17	51	33.33
001	PIJE	1	51	1.96
001	PILA	33	51	64.71
013	PSMA	2	2	100.00
017	PSMA	10	10	100.00
018	ABCO	1	8	12.50
018	CADE27	2	8	25.00
018	PIJE	5	8	62.50

plot	species	conifer_n	total_n	pct
020	CADE27	1	1	100.00
030	PICO3	1	11	9.09
030	PSMA	10	11	90.91
033	PIJE	7	8	87.50
033	PILA	1	8	12.50
034	ABCO	1	16	6.25
034	PIJE	12	16	75.00
034	PILA	3	16	18.75
040	PICO3	1	1	100.00
041	PIJE	2	2	100.00
044	PSMA	3	3	100.00
052	PICO3	1	2	50.00
052	PIPO	1	2	50.00
081	QUKE	1	1	100.00
105	PIJE	3	14	21.43
105	PSMA	11	14	78.57
106	ABCO	22	28	78.57
106	PIJE	6	28	21.43
114	PIJE	2	2	100.00
116	PICO3	3	3	100.00
118	PSMA	3	3	100.00
119	ABCO	1	14	7.14
119	PIJE	13	14	92.86
121	PIJE	21	21	100.00
124	ABCO	2	12	16.67
124	PIJE	9	12	75.00
124	PILA	1	12	8.33
125	ABCO	1	20	5.00
125	PIJE	1	20	5.00
125	PILA	6	20	30.00
125	PSMA	12	20	60.00
126	ABCO	3	5	60.00
126	PILA	1	5	20.00
126	PIPO	1	5	20.00

plot	species	conifer_n	total_n	pct
128	ABCO	3	5	60.00
128	PILA	2	5	40.00
129	PSMA	6	6	100.00
131	ABCO	8	15	53.33
131	CADE27	2	15	13.33
131	PIJE	1	15	6.67
131	PILA	4	15	26.67
134	PSMA	1	1	100.00
136	PSMA	1	1	100.00
142	PSMA	1	1	100.00
152	ABCO	24	27	88.89
152	PIJE	3	27	11.11
153	ABCO	4	30	13.33
153	CADE27	13	30	43.33
153	PILA	4	30	13.33
153	PSMA	9	30	30.00
154	PIJE	11	11	100.00
158	PICO3	4	15	26.67
158	PIJE	11	15	73.33
173	ABCO	1	17	5.88
173	CADE27	2	17	11.76
173	PILA	1	17	5.88
173	PSMA	13	17	76.47
183	ABCO	5	12	41.67
183	PIJE	4	12	33.33
183	PILA	3	12	25.00
189	PSMA	1	1	100.00
192	ABCO	8	33	24.24
192	PICO	24	33	72.73
192	PIJE	1	33	3.03
195	PSMA	6	6	100.00
196	PIJE	19	19	100.00
197	ABCO	7	28	25.00

plot	species	conifer_n	total_n	pct
197	CADE27	1	28	3.57
197	PIJE	20	28	71.43
615	PSMA	1	1	100.00

ANF by Tree size class

Size Class (cm)	Count
0-5	12
5-20	32
20-40	82
40-60	61
60-80	157
80-100	90
100-120	27
120-140	4
>140	2

Size Class (cm)	Species	Count
0-5	ABCO	3
0-5	PICO	2
0-5	PIJE	4
0-5	PILA	2
0-5	QUKE	1
5-20	ABCO	10
5-20	CADE27	3
5-20	PICO	4
5-20	PIJE	12
5-20	PILA	1
5-20	PSMA	2
20-40	ABCO	18
20-40	CADE27	3
20-40	PICO	4
20-40	PICO3	1
20-40	PIJE	26
20-40	PILA	6
20-40	PIPO	1

Size Class (cm)	Species	Count
20-40	PSMA	23
40-60	ABCO	21
40-60	PICO	2
40-60	PICO3	4
40-60	PIJE	20
40-60	PILA	3
40-60	PSMA	11
60-80	ABCO	36
60-80	CADE27	8
60-80	PICO	6
60-80	PICO3	4
60-80	PIJE	50
60-80	PILA	17
60-80	PSMA	36
80-100	ABCO	13
80-100	CADE27	2
80-100	PICO	5
80-100	PICO3	1
80-100	PIJE	31
80-100	PILA	21
80-100	PIPO	1
80-100	PSMA	16
100-120	ABCO	5
100-120	CADE27	3
100-120	PICO	1
100-120	PIJE	8
100-120	PILA	8
100-120	PSMA	2
120-140	ABCO	1
120-140	CADE27	1
120-140	PIJE	1
120-140	PILA	1
>140	ABCO	1
>140	CADE27	1

ANF Missing Data

variable	n_miss	pct_miss
dist	1812	100.00
comp	1812	100.00
stan	1812	100.00
hist	1812	100.00
hsdt	1812	100.00
dacc	1812	100.00
ctcd	1812	100.00
agcd	1812	100.00
srcd	1812	100.00
tpcd	1812	100.00
mrfl	1812	100.00
optc	1812	100.00
ldcl	1701	93.87
mist	1670	92.16
strc	1665	91.89
sdcl	1544	85.21
defe	1433	79.08
trid	1326	73.18
posi	769	42.44
ecot	503	27.76
ftyp	434	23.95
r5tc	390	21.52
species	323	17.83
gfrm	323	17.83
lfrm	323	17.83
lvdd	323	17.83
forest	0	0.00
plan	0	0.00
stra	0	0.00
splt	0	0.00
plot	0	0.00
ddate_month	0	0.00
ddate_year	0	0.00

variable	n_miss	pct_miss
invt	0	0.00
site	0	0.00
aspc	0	0.00
slop	0	0.00
elev	0	0.00
poin	0	0.00
tree	0	0.00
tcnt	0	0.00
fact	0	0.00
crow	0	0.00
dbhi	0	0.00
diht	0	0.00
heig	0	0.00
ages	0	0.00
gro1	0	0.00
gro2	0	0.00
hgro	0	0.00
dbhp	0	0.00
paht	0	0.00
prht	0	0.00
basa	0	0.00
ntpa	0	0.00
bag2	0	0.00
pclu	0	0.00
psta	0	0.00
pstr	0	0.00
cstr	0	0.00
meas	0	0.00
inds	0	0.00
crwi	0	0.00
crln	0	0.00
cullrough	0	0.00
cullfld	0	0.00
gis_link	0	0.00

variable	n_miss	pct_miss
project_name	0	0.00
fld_id	0	0.00

CNF Data Analysis

CNF Data Collection Dates
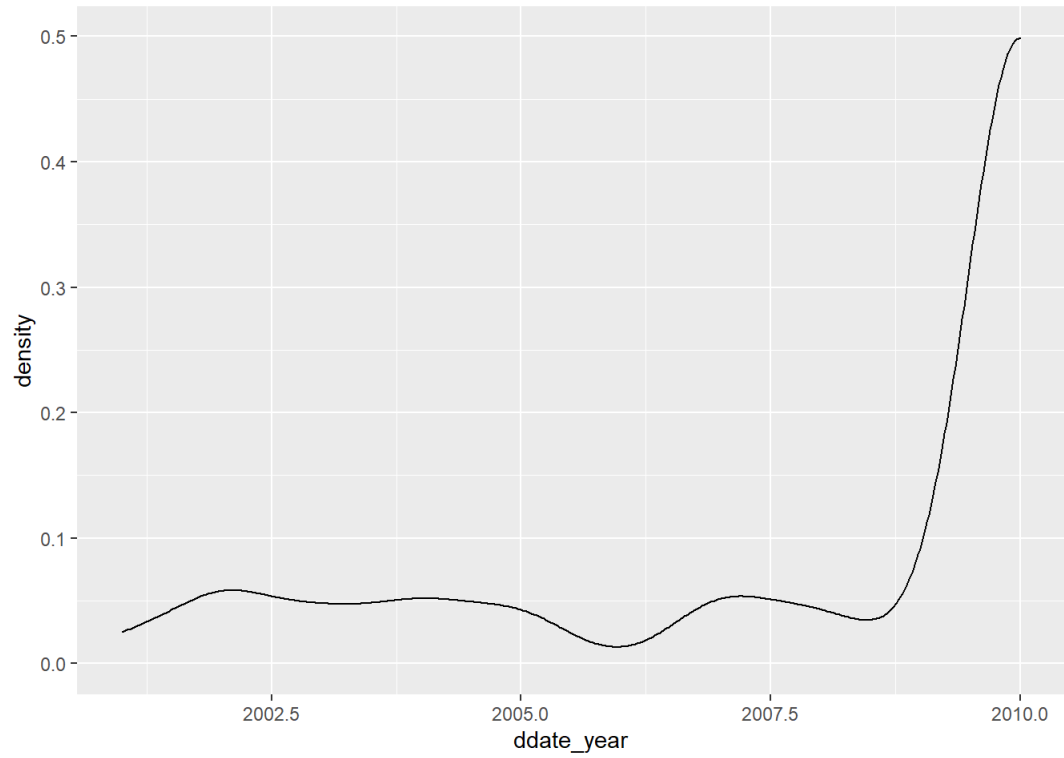
CNF Conifer Count

species	n
ABCO	1
CADE27	6
PICO3	13
PIJE	41
PSMA	19
QUKE	53

CNF Trees per Plot

plot	species	conifer_n	total_n	pct
057	PICO3	1	1	100.00
065	QUKE	10	10	100.00
069	PSMA	9	9	100.00
073	CADE27	1	7	14.29
073	PICO3	3	7	42.86

plot	species	conifer_n	total_n	pct
073	QUKE	3	7	42.86
075	PICO3	6	9	66.67
075	PSMA	1	9	11.11
075	QUKE	2	9	22.22
085	ABCO	1	19	5.26
085	CADE27	4	19	21.05
085	PICO3	1	19	5.26
085	QUKE	13	19	68.42
086	CADE27	1	14	7.14
086	PICO3	1	14	7.14
086	PIJE	4	14	28.57
086	QUKE	8	14	57.14
090	PIJE	12	14	85.71
090	QUKE	2	14	14.29
091	PICO3	1	5	20.00
091	QUKE	4	5	80.00
110	PSMA	1	1	100.00
113	PIJE	13	16	81.25
113	QUKE	3	16	18.75
120	PSMA	5	5	100.00
122	PSMA	3	3	100.00
128	PIJE	12	20	60.00
128	QUKE	8	20	40.00

CNF by Tree size class

Size Class (cm)	Count
0-5	5
5-20	17
20-40	34
40-60	26
60-80	34
80-100	11
100-120	5
120-140	1

Size Class (cm)	Species	Count
0-5	PIJE	1
0-5	QUKE	4
5-20	PICO3	2
5-20	PIJE	2
5-20	QUKE	13
20-40	CADE27	3
20-40	PICO3	2
20-40	PIJE	15
20-40	PSMA	2
20-40	QUKE	12
40-60	ABCO	1
40-60	CADE27	1
40-60	PICO3	7
40-60	PIJE	8
40-60	PSMA	5
40-60	QUKE	4
60-80	CADE27	1
60-80	PICO3	1
60-80	PIJE	12
60-80	PSMA	4
60-80	QUKE	16
80-100	CADE27	1
80-100	PICO3	1
80-100	PIJE	3
80-100	PSMA	4
80-100	QUKE	2
100-120	PSMA	3
100-120	QUKE	2
120-140	PSMA	1

CNF Missing Data

variable	n_miss	pct_miss
dist	843	100.00
comp	843	100.00

variable	n_miss	pct_miss
stan	843	100.00
hist	843	100.00
hsdt	843	100.00
dacc	843	100.00
ctcd	843	100.00
agcd	843	100.00
srcd	843	100.00
tpcd	843	100.00
mrfl	843	100.00
optc	843	100.00
strc	801	95.02
ldcl	786	93.24
mist	785	93.12
sdcl	760	90.15
defe	703	83.39
trid	624	74.02
posi	435	51.60
ftyp	318	37.72
r5tc	295	34.99
ecot	280	33.21
species	261	30.96
gfrm	261	30.96
lfrm	261	30.96
lvdd	261	30.96
forest	0	0.00
plan	0	0.00
stra	0	0.00
splt	0	0.00
plot	0	0.00
ddate_month	0	0.00
ddate_year	0	0.00
invt	0	0.00
site	0	0.00
aspc	0	0.00

variable	n_miss	pct_miss
slop	0	0.00
elev	0	0.00
poin	0	0.00
tree	0	0.00
tcnt	0	0.00
fact	0	0.00
crow	0	0.00
dbhi	0	0.00
diht	0	0.00
heig	0	0.00
ages	0	0.00
gro1	0	0.00
gro2	0	0.00
hgro	0	0.00
dbhp	0	0.00
paht	0	0.00
prht	0	0.00
basa	0	0.00
ntpa	0	0.00
bag2	0	0.00
pclu	0	0.00
psta	0	0.00
pstr	0	0.00
cstr	0	0.00
meas	0	0.00
inds	0	0.00
crwi	0	0.00
crln	0	0.00
cullrough	0	0.00
cullfld	0	0.00
gis_link	0	0.00
project_name	0	0.00
fld_id	0	0.00

LPF Data Analysis

LPF Data Collection Dates
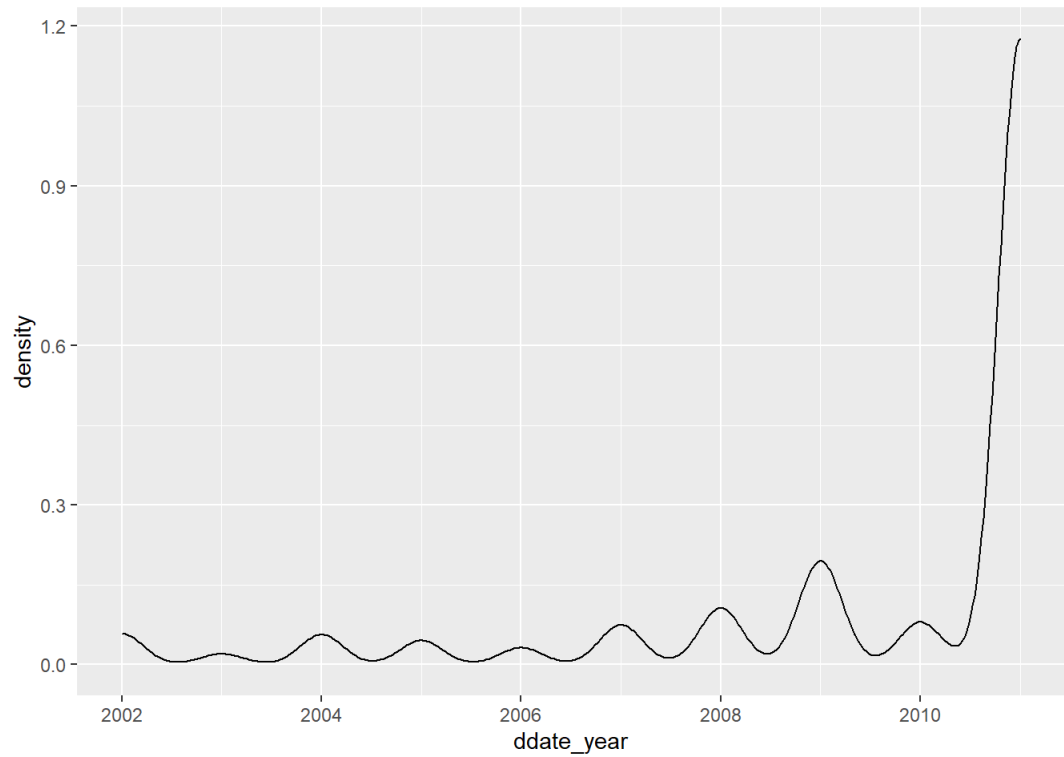
LPF Conifer Count

species	n
ABCO	135
CADE27	32
PICO3	80
PIJE	548
PILA	73
PIPO	23
PSMA	243
QUKE	84

LPF Trees per Plot

plot	species	conifer_n	total_n	pct
3	PIPO	1	1	100.00
15	QUKE	1	1	100.00
34	PICO3	1	1	100.00
36	PICO3	5	5	100.00
39	PICO3	3	3	100.00
74	PICO3	1	1	100.00

plot	species	conifer_n	total_n	pct
108	PIJE	39	39	100.00
115	PSMA	10	10	100.00
134	PSMA	1	1	100.00
136	PICO3	4	4	100.00
137	PICO3	22	22	100.00
138	PICO3	2	3	66.67
138	PILA	1	3	33.33
142	PICO3	7	7	100.00
145	PIJE	5	19	26.32
145	QUKE	14	19	73.68
148	PIJE	1	1	100.00
149	PILA	1	2	50.00
149	PSMA	1	2	50.00
162	PSMA	9	9	100.00
163	PSMA	5	5	100.00
164	PIJE	2	5	40.00
164	PILA	1	5	20.00
164	PSMA	2	5	40.00
165	PIJE	14	14	100.00
167	PSMA	1	1	100.00
169	PIJE	1	1	100.00
171	PSMA	3	3	100.00
232	ABCO	2	3	66.67
232	PIJE	1	3	33.33
234	PIJE	1	1	100.00
235	ABCO	11	16	68.75
235	PIJE	5	16	31.25
236	ABCO	2	6	33.33
236	PIJE	2	6	33.33
236	PILA	2	6	33.33
237	PIJE	32	32	100.00
239	PSMA	6	6	100.00
242	QUKE	6	6	100.00
243	QUKE	4	4	100.00

plot	species	conifer_n	total_n	pct
245	PIPO	1	16	6.25
245	QUKE	15	16	93.75
248	PIPO	9	9	100.00
251	CADE27	1	1	100.00
270	PICO3	3	3	100.00
273	PICO3	3	3	100.00
275	PSMA	21	21	100.00
276	PSMA	3	3	100.00
277	PSMA	15	15	100.00
278	PIJE	3	3	100.00
279	PSMA	9	9	100.00
280	ABCO	2	4	50.00
280	PIJE	2	4	50.00
281	ABCO	4	9	44.44
281	PIJE	2	9	22.22
281	PILA	3	9	33.33
283	ABCO	1	4	25.00
283	PIJE	3	4	75.00
285	PIJE	34	36	94.44
285	QUKE	2	36	5.56
287	PIJE	1	1	100.00
288	PIJE	21	21	100.00
289	ABCO	10	33	30.30
289	PIJE	23	33	69.70
291	PIJE	42	42	100.00
292	PIJE	12	12	100.00
296	PSMA	12	12	100.00
302	ABCO	5	20	25.00
302	PIJE	7	20	35.00
302	PILA	4	20	20.00
302	PSMA	4	20	20.00
303	CADE27	8	24	33.33
303	PIJE	8	24	33.33
303	PILA	8	24	33.33

plot	species	conifer_n	total_n	pct
309	PIJE	1	21	4.76
309	PILA	10	21	47.62
309	PSMA	10	21	47.62
310	PIJE	23	32	71.88
310	PILA	1	32	3.12
310	QUKE	8	32	25.00
311	PIJE	1	10	10.00
311	PILA	2	10	20.00
311	PIPO	2	10	20.00
311	PSMA	4	10	40.00
311	QUKE	1	10	10.00
313	PIJE	6	10	60.00
313	PILA	1	10	10.00
313	PSMA	3	10	30.00
317	PSMA	3	3	100.00
320	PICO3	1	17	5.88
320	PSMA	13	17	76.47
320	QUKE	3	17	17.65
327	QUKE	1	1	100.00
328	QUKE	7	7	100.00
330	QUKE	3	3	100.00
336	PICO3	4	8	50.00
336	PIPO	1	8	12.50
336	QUKE	3	8	37.50
346	PICO3	2	2	100.00
350	PICO3	1	1	100.00
361	PICO3	2	2	100.00
391	PICO3	4	4	100.00
399	PSMA	3	3	100.00
400	PSMA	7	7	100.00
402	CADE27	3	3	100.00
405	PSMA	1	1	100.00
406	PSMA	2	2	100.00
417	ABCO	15	17	88.24

plot	species	conifer_n	total_n	pct
417	PIJE	2	17	11.76
418	PIJE	23	23	100.00
419	PIJE	4	4	100.00
432	ABCO	1	6	16.67
432	PIJE	5	6	83.33
433	ABCO	4	19	21.05
433	CADE27	2	19	10.53
433	PILA	7	19	36.84
433	PIPO	3	19	15.79
433	PSMA	3	19	15.79
434	ABCO	2	26	7.69
434	PIJE	11	26	42.31
434	PILA	13	26	50.00
439	PIJE	2	2	100.00
440	PIJE	2	2	100.00
444	PIJE	9	9	100.00
448	PSMA	3	3	100.00
451	PIJE	27	27	100.00
459	PILA	1	6	16.67
459	PSMA	5	6	83.33
460	PSMA	7	7	100.00
602	PICO3	1	1	100.00
615	PIPO	1	1	100.00
640	ABCO	5	9	55.56
640	PIJE	4	9	44.44
645	ABCO	57	57	100.00
651	PIJE	20	20	100.00
660	PICO3	3	9	33.33
660	PSMA	6	9	66.67
670	PSMA	2	2	100.00
707	PSMA	1	1	100.00
710	PSMA	12	12	100.00
719	PSMA	4	4	100.00
721	CADE27	7	26	26.92

plot	species	conifer_n	total_n	pct
721	PIJE	9	26	34.62
721	PILA	7	26	26.92
721	QUKE	3	26	11.54
722	CADE27	3	13	23.08
722	PIJE	3	13	23.08
722	PILA	5	13	38.46
722	PSMA	2	13	15.38
723	PIJE	14	14	100.00
725	ABCO	6	24	25.00
725	PIJE	15	24	62.50
725	PILA	3	24	12.50
726	PIJE	12	12	100.00
728	QUKE	11	11	100.00
731	PSMA	1	1	100.00
732	CADE27	6	14	42.86
732	PIJE	7	14	50.00
732	PILA	1	14	7.14
734	PSMA	11	11	100.00
737	PIJE	13	13	100.00
740	PSMA	5	5	100.00
742	PIJE	1	1	100.00
749	CADE27	2	2	100.00
751	PILA	1	13	7.69
751	PIPO	5	13	38.46
751	PSMA	7	13	53.85
753	PSMA	3	3	100.00
757	PSMA	6	6	100.00
759	PSMA	2	2	100.00
760	PSMA	7	7	100.00
761	PSMA	2	2	100.00
767	PSMA	2	2	100.00
772	PIJE	3	3	100.00
777	PIJE	2	2	100.00
779	PIJE	9	9	100.00

plot	species	conifer_n	total_n	pct
782	PIJE	15	15	100.00
793	ABCO	2	31	6.45
793	PIJE	29	31	93.55
794	PIJE	11	11	100.00
797	ABCO	5	10	50.00
797	PIJE	4	10	40.00
797	PILA	1	10	10.00
801	PSMA	1	1	100.00
803	ABCO	1	1	100.00
804	PSMA	3	3	100.00
809	PICO3	4	4	100.00
817	PICO3	1	1	100.00
835	PICO3	5	5	100.00
844	PICO3	1	1	100.00
850	QUKE	2	2	100.00

LPF Tree Size Class

Size Class (cm)	Count
0-5	31
5-20	137
20-40	281
40-60	177
60-80	321
80-100	188
100-120	60
120-140	15
>140	8

Size Class (cm)	Species	Count
0-5	ABCO	5
0-5	PICO3	5
0-5	PIJE	13
0-5	PILA	3
0-5	PSMA	2
0-5	QUKE	3

Size Class (cm)	Species	Count
5-20	ABCO	14
5-20	CADE27	2
5-20	PICO3	11
5-20	PIJE	58
5-20	PILA	15
5-20	PIPO	1
5-20	PSMA	14
5-20	QUKE	22
20-40	ABCO	31
20-40	CADE27	3
20-40	PICO3	20
20-40	PIJE	146
20-40	PILA	19
20-40	PIPO	1
20-40	PSMA	34
20-40	QUKE	27
40-60	ABCO	18
40-60	CADE27	7
40-60	PICO3	19
40-60	PIJE	82
40-60	PILA	9
40-60	PSMA	28
40-60	QUKE	14
60-80	ABCO	37
60-80	CADE27	12
60-80	PICO3	20
60-80	PIJE	143
60-80	PILA	10
60-80	PIPO	8
60-80	PSMA	77
60-80	QUKE	14
80-100	ABCO	18
80-100	CADE27	8
80-100	PICO3	5

Size Class (cm)	Species	Count
80-100	PIJE	76
80-100	PILA	10
80-100	PIPO	6
80-100	PSMA	62
80-100	QUKE	3
100-120	ABCO	7
100-120	PIJE	27
100-120	PILA	5
100-120	PIPO	4
100-120	PSMA	17
120-140	ABCO	4
120-140	PIJE	2
120-140	PILA	1
120-140	PIPO	3
120-140	PSMA	4
120-140	QUKE	1
>140	ABCO	1
>140	PIJE	1
>140	PILA	1
>140	PSMA	5

LPF Missing Data

variable	n_miss	pct_miss
dist	9285	100.00
comp	9285	100.00
stan	9285	100.00
hist	9285	100.00
hsdt	9285	100.00
dacc	9285	100.00
ctcd	9285	100.00
agcd	9285	100.00
srcd	9285	100.00
tpcd	9285	100.00
mrfl	9285	100.00

variable	n_miss	pct_miss
optc	9285	100.00
trid	9104	98.05
ldcl	9032	97.28
strc	8862	95.44
mist	8817	94.96
sdcl	7760	83.58
defe	7507	80.85
ecot	7286	78.47
posi	3128	33.69
r5tc	1350	14.54
ftyp	1095	11.79
species	842	9.07
gfrm	842	9.07
lfrm	842	9.07
lvdd	842	9.07
forest	0	0.00
plan	0	0.00
stra	0	0.00
splt	0	0.00
plot	0	0.00
ddate_month	0	0.00
ddate_year	0	0.00
invt	0	0.00
site	0	0.00
aspc	0	0.00
slop	0	0.00
elev	0	0.00
poin	0	0.00
tree	0	0.00
tcnt	0	0.00
fact	0	0.00
crow	0	0.00
dbhi	0	0.00
diht	0	0.00

variable	n_miss	pct_miss
heig	0	0.00
ages	0	0.00
gro1	0	0.00
gro2	0	0.00
hgro	0	0.00
dbhp	0	0.00
paht	0	0.00
prht	0	0.00
basa	0	0.00
ntpa	0	0.00
bag2	0	0.00
pclu	0	0.00
psta	0	0.00
pstr	0	0.00
cstr	0	0.00
meas	0	0.00
inds	0	0.00
crwi	0	0.00
crln	0	0.00
cullrough	0	0.00
cullfld	0	0.00
gis_link	0	0.00
project_name	0	0.00
fld_id	0	0.00

BDF Data Analysis
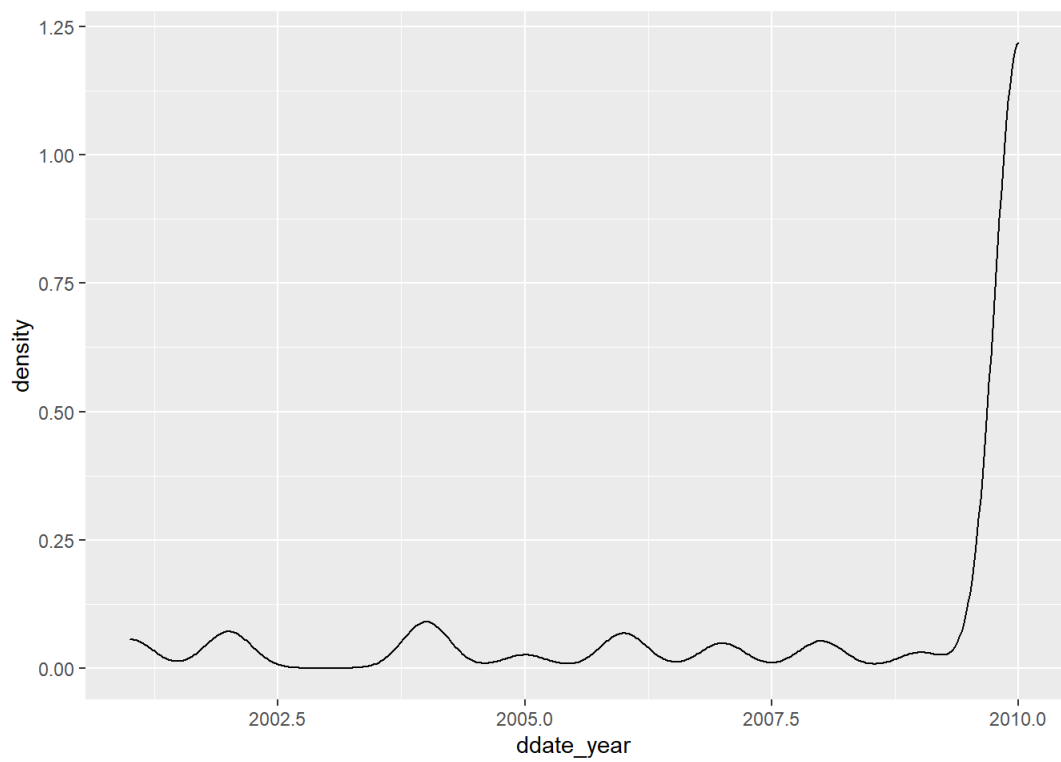
BDF Conifer Count

species	n
ABCO	910
CADE27	171
PICO	207
PICO3	137
PIJE	579
PILA	187
PIPO	59
PSMA	62

BDF Trees per Plot

plot	species	conifer_n	total_n	pct
006	PICO3	11	11	100.00
011	PICO3	5	9	55.56
011	QUKE	4	9	44.44
018	PIJE	2	4	50.00
018	PILA	2	4	50.00
021	PICO3	7	7	100.00
024	ABCO	3	23	13.04
024	PIJE	14	23	60.87
024	PILA	6	23	26.09

plot	species	conifer_n	total_n	pct
025	PIJE	1	1	100.00
027	ABCO	9	18	50.00
027	PICO	6	18	33.33
027	PIJE	3	18	16.67
028	ABCO	5	16	31.25
028	PIJE	11	16	68.75
029	ABCO	35	48	72.92
029	PIJE	13	48	27.08
030	ABCO	23	27	85.19
030	PIJE	4	27	14.81
033	ABCO	48	66	72.73
033	CADE27	7	66	10.61
033	PIJE	4	66	6.06
033	PILA	3	66	4.55
033	QUKE	4	66	6.06
034	ABCO	22	39	56.41
034	PIJE	1	39	2.56
034	PILA	16	39	41.03
036	ABCO	15	30	50.00
036	PICO3	3	30	10.00
036	PIJE	3	30	10.00
036	PILA	9	30	30.00
038	PSMA	1	1	100.00
039	PICO	28	28	100.00
040	ABCO	10	17	58.82
040	PIJE	6	17	35.29
040	PILA	1	17	5.88
041	PILA	1	8	12.50
041	PSMA	7	8	87.50
045	ABCO	9	31	29.03
045	PIJE	6	31	19.35
045	QUKE	16	31	51.61
046	ABCO	14	35	40.00
046	PICO3	1	35	2.86

plot	species	conifer_n	total_n	pct
046	PIJE	4	35	11.43
046	PILA	2	35	5.71
046	QUKE	14	35	40.00
050	PICO3	1	3	33.33
050	PSMA	2	3	66.67
060	ABCO	14	44	31.82
060	PIJE	29	44	65.91
060	QUKE	1	44	2.27
061	PIJE	14	14	100.00
065	CADE27	1	15	6.67
065	PICO3	11	15	73.33
065	PIJE	2	15	13.33
065	QUKE	1	15	6.67
070	PIJE	3	14	21.43
070	PIPO	5	14	35.71
070	QUKE	6	14	42.86
071	PIJE	1	1	100.00
078	PIJE	5	5	100.00
080	PIPO	4	13	30.77
080	PSMA	9	13	69.23
082	ABCO	3	11	27.27
082	PIJE	8	11	72.73
083	ABCO	3	3	100.00
084	QUKE	1	1	100.00
085	PICO3	2	2	100.00
087	PIJE	1	1	100.00
088	PIJE	10	10	100.00
090	ABCO	1	12	8.33
090	CADE27	2	12	16.67
090	PICO3	9	12	75.00
092	ABCO	1	11	9.09
092	PIJE	2	11	18.18
092	PILA	8	11	72.73

plot	species	conifer_n	total_n	pct
093	ABCO	41	53	77.36
093	PIJE	12	53	22.64
094	ABCO	6	24	25.00
094	CADE27	2	24	8.33
094	PIJE	15	24	62.50
094	PILA	1	24	4.17
095	ABCO	2	6	33.33
095	PICO3	4	6	66.67
097	ABCO	62	76	81.58
097	PIJE	1	76	1.32
097	PILA	13	76	17.11
099	ABCO	1	37	2.70
099	CADE27	23	37	62.16
099	PICO3	4	37	10.81
099	QUKE	9	37	24.32
101	ABCO	3	13	23.08
101	CADE27	7	13	53.85
101	PICO3	2	13	15.38
101	PILA	1	13	7.69
102	ABCO	5	10	50.00
102	PIJE	3	10	30.00
102	PILA	2	10	20.00
103	ABCO	23	38	60.53
103	PIJE	5	38	13.16
103	PILA	10	38	26.32
105	ABCO	21	31	67.74
105	PIPO	10	31	32.26
107	PICO	23	23	100.00
109	ABCO	11	31	35.48
109	PIJE	20	31	64.52
110	PIJE	21	21	100.00
111	ABCO	7	22	31.82
111	PIJE	15	22	68.18
113	ABCO	22	59	37.29

plot	species	conifer_n	total_n	pct
113	PIJE	37	59	62.71
114	ABCO	6	10	60.00
114	PIJE	1	10	10.00
114	PILA	3	10	30.00
115	ABCO	9	18	50.00
115	PIPO	9	18	50.00
118	PIJE	8	20	40.00
118	QUKE	12	20	60.00
120	PICO	46	46	100.00
121	ABCO	20	36	55.56
121	PIJE	4	36	11.11
121	PILA	8	36	22.22
121	PIPO	3	36	8.33
121	QUKE	1	36	2.78
123	PICO3	6	14	42.86
123	PSMA	2	14	14.29
123	QUKE	6	14	42.86
124	ABCO	1	7	14.29
124	PICO3	6	7	85.71
125	ABCO	13	26	50.00
125	PIJE	13	26	50.00
128	ABCO	17	29	58.62
128	CADE27	11	29	37.93
128	PILA	1	29	3.45
129	ABCO	10	11	90.91
129	PILA	1	11	9.09
132	PICO3	1	2	50.00
132	PSMA	1	2	50.00
133	ABCO	4	39	10.26
133	CADE27	32	39	82.05
133	PSMA	3	39	7.69
134	ABCO	6	16	37.50
134	PIJE	8	16	50.00
134	PILA	2	16	12.50

plot	species	conifer_n	total_n	pct
136	ABCO	7	18	38.89
136	PIJE	11	18	61.11
137	ABCO	2	7	28.57
137	PIJE	5	7	71.43
138	ABCO	23	36	63.89
138	PICO	11	36	30.56
138	PILA	2	36	5.56
139	ABCO	2	29	6.90
139	PICO	25	29	86.21
139	PILA	2	29	6.90
141	PSMA	13	13	100.00
144	ABCO	1	7	14.29
144	CADE27	1	7	14.29
144	PICO3	3	7	42.86
144	PSMA	2	7	28.57
146	ABCO	8	24	33.33
146	CADE27	5	24	20.83
146	PILA	3	24	12.50
146	QUKE	8	24	33.33
147	ABCO	27	41	65.85
147	CADE27	1	41	2.44
147	PIJE	2	41	4.88
147	PILA	4	41	9.76
147	QUKE	7	41	17.07
148	ABCO	24	63	38.10
148	PILA	4	63	6.35
148	QUKE	35	63	55.56
155	ABCO	9	24	37.50
155	CADE27	8	24	33.33
155	PILA	7	24	29.17
157	ABCO	1	7	14.29
157	PIJE	6	7	85.71
158	ABCO	1	7	14.29
158	PIJE	6	7	85.71

plot	species	conifer_n	total_n	pct
159	PIJE	1	1	100.00
160	ABCO	2	23	8.70
160	CADE27	1	23	4.35
160	PIJE	13	23	56.52
160	QUKE	7	23	30.43
161	ABCO	1	18	5.56
161	PIJE	9	18	50.00
161	QUKE	8	18	44.44
162	ABCO	1	8	12.50
162	PIJE	4	8	50.00
162	PILA	3	8	37.50
164	ABCO	16	22	72.73
164	PIJE	4	22	18.18
164	QUKE	2	22	9.09
165	CADE27	1	3	33.33
165	PIJE	2	3	66.67
169	ABCO	2	11	18.18
169	PICO3	4	11	36.36
169	PIJE	3	11	27.27
169	PILA	2	11	18.18
170	PICO3	1	6	16.67
170	PIJE	4	6	66.67
170	PILA	1	6	16.67
172	ABCO	7	20	35.00
172	CADE27	2	20	10.00
172	PIJE	7	20	35.00
172	PILA	1	20	5.00
172	QUKE	3	20	15.00
174	PICO3	2	2	100.00
177	PIJE	5	5	100.00
179	CADE27	6	6	100.00
180	ABCO	2	17	11.76
180	PILA	7	17	41.18
180	PSMA	5	17	29.41

plot	species	conifer_n	total_n	pct
180	QUKE	3	17	17.65
186	CADE27	1	2	50.00
186	PSMA	1	2	50.00
189	PIJE	3	3	100.00
190	PICO3	6	6	100.00
191	PICO3	1	1	100.00
202	PIJE	3	3	100.00
203	PIJE	3	3	100.00
208	PICO	6	6	100.00
211	PICO3	3	9	33.33
211	PIJE	5	9	55.56
211	PILA	1	9	11.11
213	PIJE	14	14	100.00
215	PICO3	2	2	100.00
301	ABCO	19	35	54.29
301	PIJE	8	35	22.86
301	PILA	8	35	22.86
302	PICO	7	7	100.00
304	ABCO	14	19	73.68
304	PIJE	2	19	10.53
304	PILA	3	19	15.79
305	PIJE	1	1	100.00
306	PIJE	18	18	100.00
308	PIJE	14	36	38.89
308	QUKE	22	36	61.11
309	ABCO	29	50	58.00
309	PIJE	7	50	14.00
309	QUKE	14	50	28.00
310	ABCO	10	17	58.82
310	PICO3	1	17	5.88
310	PILA	4	17	23.53
310	PSMA	2	17	11.76
312	ABCO	17	40	42.50
312	PIJE	12	40	30.00

plot	species	conifer_n	total_n	pct
312	PILA	1	40	2.50
312	QUKE	10	40	25.00
313	ABCO	6	61	9.84
313	CADE27	32	61	52.46
313	PIJE	4	61	6.56
313	PILA	1	61	1.64
313	PSMA	1	61	1.64
313	QUKE	17	61	27.87
314	PICO3	1	10	10.00
314	PILA	4	10	40.00
314	QUKE	5	10	50.00
315	CADE27	2	21	9.52
315	PICO3	5	21	23.81
315	QUKE	14	21	66.67
316	PSMA	10	10	100.00
317	PICO3	8	22	36.36
317	PIJE	3	22	13.64
317	QUKE	11	22	50.00
318	ABCO	1	35	2.86
318	CADE27	6	35	17.14
318	PIJE	22	35	62.86
318	PILA	6	35	17.14
319	ABCO	23	55	41.82
319	CADE27	1	55	1.82
319	PIJE	14	55	25.45
319	QUKE	17	55	30.91
320	ABCO	47	68	69.12
320	PILA	7	68	10.29
320	PIPO	6	68	8.82
320	QUKE	8	68	11.76
321	ABCO	6	30	20.00
321	PIJE	9	30	30.00
321	QUKE	15	30	50.00
322	ABCO	5	29	17.24

plot	species	conifer_n	total_n	pct
322	CADE27	6	29	20.69
322	PILA	2	29	6.90
322	PSMA	3	29	10.34
322	QUKE	13	29	44.83
323	ABCO	2	28	7.14
323	PICO3	8	28	28.57
323	QUKE	18	28	64.29
324	ABCO	19	44	43.18
324	CADE27	3	44	6.82
324	PIJE	2	44	4.55
324	PILA	7	44	15.91
324	QUKE	13	44	29.55
325	CADE27	1	5	20.00
325	PICO3	4	5	80.00
327	ABCO	3	21	14.29
327	PICO	18	21	85.71
330	ABCO	23	40	57.50
330	PICO	15	40	37.50
330	PIJE	2	40	5.00
331	ABCO	5	15	33.33
331	PIJE	10	15	66.67
332	ABCO	15	19	78.95
332	PIJE	1	19	5.26
332	PILA	3	19	15.79
333	PIJE	19	19	100.00
334	PICO3	12	12	100.00
609	CADE27	9	38	23.68
609	PILA	1	38	2.63
609	PIPO	22	38	57.89
609	QUKE	6	38	15.79
619	PICO	22	22	100.00
620	PIJE	10	10	100.00
621	ABCO	25	38	65.79
621	PILA	13	38	34.21

plot	species	conifer_n	total_n	pct
624	PICO3	3	4	75.00
624	PIJE	1	4	25.00

BDF Tree Size Class

Size Class (cm)	Count
0-5	101
5-20	449
20-40	683
40-60	343
60-80	636
80-100	299
100-120	94
120-140	30
>140	8

Size Class (cm)	Species	Count
0-5	ABCO	42
0-5	CADE27	10
0-5	PICO	5
0-5	PICO3	3
0-5	PIJE	7
0-5	PILA	12
0-5	PIPO	1
0-5	QUKE	21
5-20	ABCO	166
5-20	CADE27	29
5-20	PICO	12
5-20	PICO3	13
5-20	PIJE	74
5-20	PILA	16
5-20	PIPO	4
5-20	PSMA	8
5-20	QUKE	127
20-40	ABCO	255
20-40	CADE27	39

Size Class (cm)	Species	Count
20-40	PICO	27
20-40	PICO3	36
20-40	PIJE	116
20-40	PILA	37
20-40	PIPO	17
20-40	PSMA	8
20-40	QUKE	148
40-60	ABCO	114
40-60	CADE27	21
40-60	PICO	38
40-60	PICO3	33
40-60	PIJE	84
40-60	PILA	23
40-60	PIPO	2
40-60	PSMA	10
40-60	QUKE	18
60-80	ABCO	199
60-80	CADE27	31
60-80	PICO	93
60-80	PICO3	37
60-80	PIJE	172
60-80	PILA	48
60-80	PIPO	22
60-80	PSMA	19
60-80	QUKE	15
80-100	ABCO	90
80-100	CADE27	21
80-100	PICO	24
80-100	PICO3	15
80-100	PIJE	96
80-100	PILA	33
80-100	PIPO	9
80-100	PSMA	9
80-100	QUKE	2

Size Class (cm)	Species	Count
100-120	ABCO	31
100-120	CADE27	12
100-120	PICO	5
100-120	PIJE	23
100-120	PILA	12
100-120	PIPO	3
100-120	PSMA	8
120-140	ABCO	12
120-140	CADE27	4
120-140	PICO	2
120-140	PIJE	6
120-140	PILA	5
120-140	PIPO	1
>140	ABCO	1
>140	CADE27	4
>140	PICO	1
>140	PIJE	1
>140	PILA	1

BDF Missing Data

variable	n_miss	pct_miss
dist	5662	100.00
comp	5662	100.00
stan	5662	100.00
strc	5662	100.00
hist	5662	100.00
hsdt	5662	100.00
dacc	5662	100.00
ctcd	5662	100.00
agcd	5662	100.00
srcd	5662	100.00
tpcd	5662	100.00
mrfl	5662	100.00
optc	5662	100.00

variable	n_miss	pct_miss
ldcl	5199	91.82
mist	4995	88.22
trid	4829	85.29
sdcl	4614	81.49
defe	4151	73.31
ecot	3762	66.44
posi	1991	35.16
ftyp	705	12.45
r5tc	480	8.48
species	242	4.27
gfrm	242	4.27
lfrm	242	4.27
lvdd	242	4.27
forest	0	0.00
plan	0	0.00
stra	0	0.00
splt	0	0.00
plot	0	0.00
ddate_month	0	0.00
ddate_year	0	0.00
invt	0	0.00
site	0	0.00
aspc	0	0.00
slop	0	0.00
elev	0	0.00
poin	0	0.00
tree	0	0.00
tcnt	0	0.00
fact	0	0.00
crow	0	0.00
dbhi	0	0.00
diht	0	0.00
heig	0	0.00
ages	0	0.00

variable	n_miss	pct_miss
gro1	0	0.00
gro2	0	0.00
hgro	0	0.00
dbhp	0	0.00
paht	0	0.00
prht	0	0.00
basa	0	0.00
ntpa	0	0.00
bag2	0	0.00
pclu	0	0.00
psta	0	0.00
pstr	0	0.00
cstr	0	0.00
meas	0	0.00
inds	0	0.00
crwi	0	0.00
crln	0	0.00
cullrough	0	0.00
cullfld	0	0.00
gis_link	0	0.00
project_name	0	0.00
fld_id	0	0.00

Summary of NA Statistics

nf_name	nf_na	nf_complete	nf_na_pct
ANF	34471	90557	27.57
CNF	16947	41220	29.14
LPF	178729	461936	27.90
BDF	105300	285378	26.95