

# POTR

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```
POTR <- read.csv("/Users/sarahcarter/Downloads/POTR Seedling Data -  
Sheet1.csv")  
#str(POTR)  
POTR_site <- read.csv("/Users/sarahcarter/Downloads/POTR SITE DATA -  
Sheet1.csv")  
#str(POTR_site)  
REGEN <- read.csv("/Users/sarahcarter/Downloads/ALL REGEN -  
Sheet1.csv")
```

```
#rename variables because they are confusing  
POTR$site.name <- POTR$SITE.NAME  
POTR$site.Number <- POTR$SITE..  
POTR$height <- POTR$Height..cm.
```

#merging site and seedling data

```
compiled <- merge(POTR, POTR_site, by.x = "SITE..", by.y =  
"Site.Number")  
#compiled
```

#packages

```
#install.packages("ggplot2")  
library(dplyr)
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

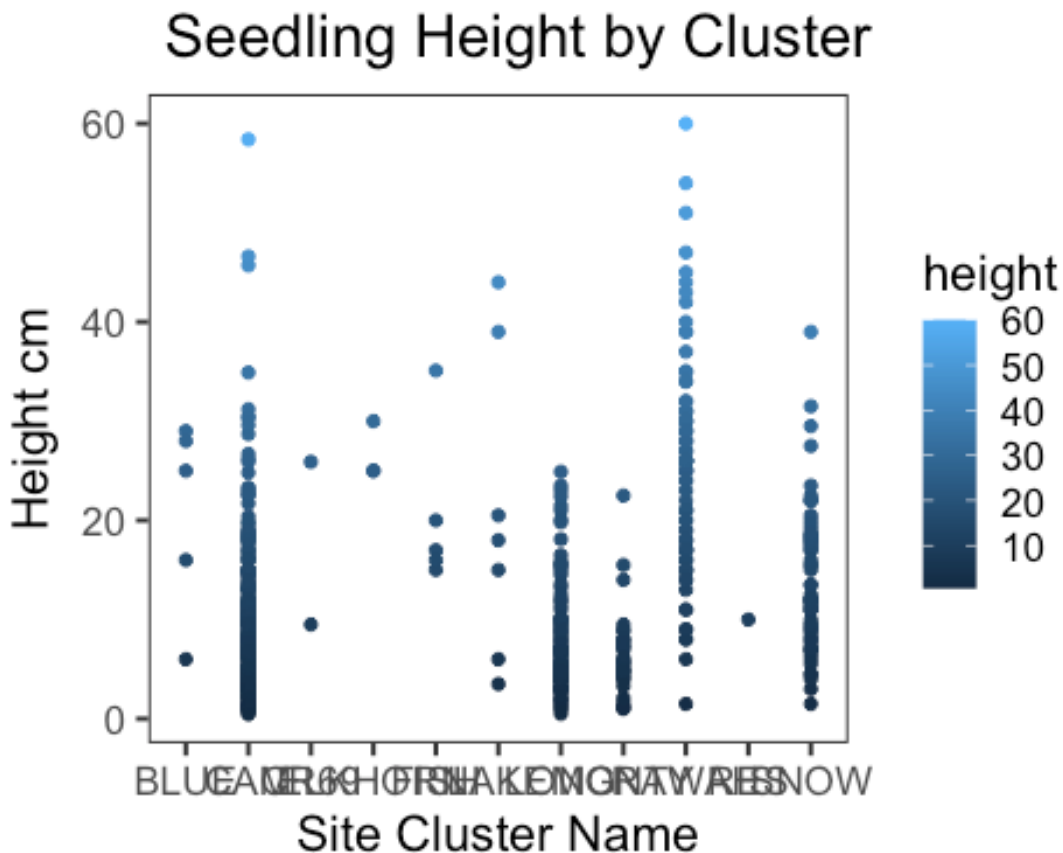
```
##
```

```
##      intersect, setdiff, setequal, union
```

```
library(tidyr)
library(ggplot2)

#dotplot height by cluster
ggplot(compiled,aes(x=site.name,y=height, col = height)) +
  geom_point() +
    xlab("Site Cluster Name") +
    ylab(expression(paste("Height cm")))) +
    theme_bw(base_size = 16) + theme(panel.grid.major =
element_blank(), panel.grid.minor = element_blank()) + ggtitle("
Seedling Height by Cluster")

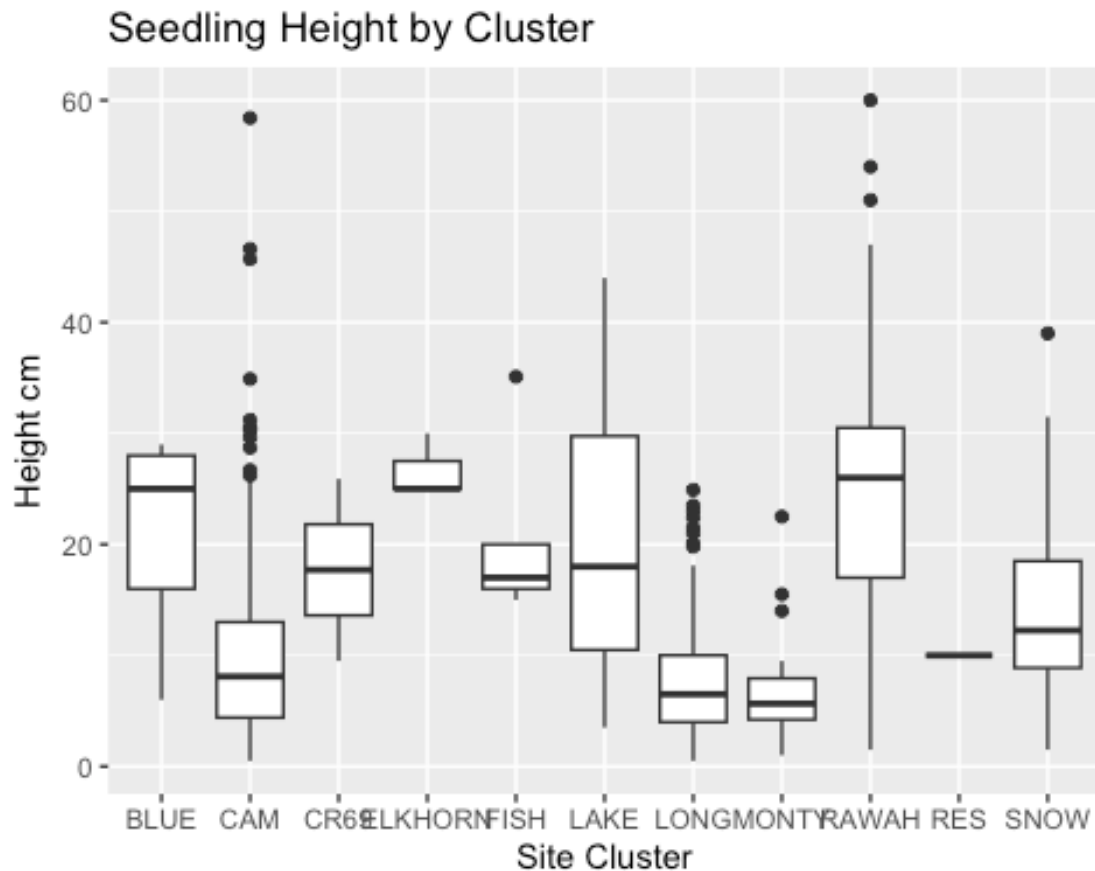
## Warning: Removed 13 rows containing missing values
(`geom_point()`).
```



```
#boxplot height by cluster
ggplot(POTR, aes(x=site.name, y=height)) +
```

```
geom_boxplot() +
xlab("Site Cluster") +
ylab(expression(paste("Height cm")))+
ggtitle("Seedling Height by Cluster")
```

```
## Warning: Removed 13 rows containing non-finite values
(`stat_boxplot()`).
```



```
#histogram counts
```

```
count <- count(compiled, site.name)
count
```

```
##   site.name  n
## 1    BLUE    7
## 2     CAM 250
## 3    CR69    4
```

```
## 4      ELKHORN    3
## 5        FISH    8
## 6        LAKE    8
## 7        LONG  101
## 8      MONTY    32
## 9      RAWAH   84
## 10       RES     4
## 11      SNOW   60
```

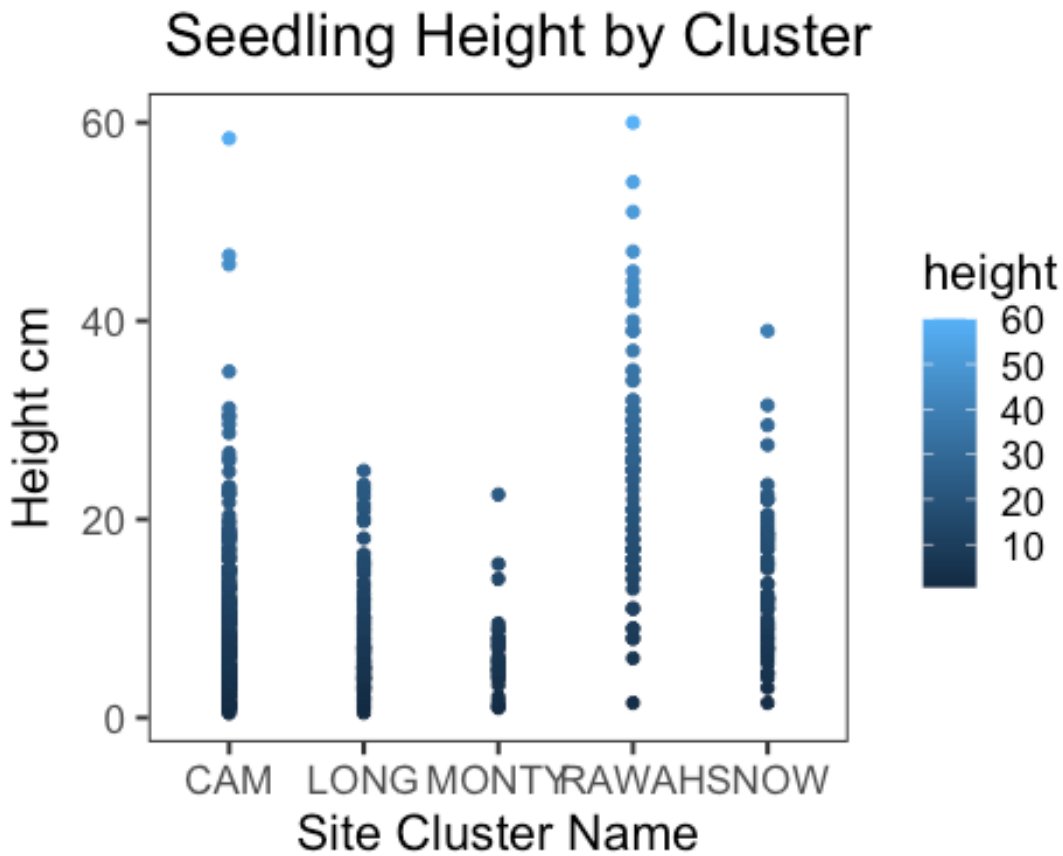
```
#filter for seedling density
```

```
dense <- compiled %>% filter(SITE.NAME == "CAM" | SITE.NAME == "LONG" |
SITE.NAME == "MONTY" | SITE.NAME == "RAWAH" | SITE.NAME == "SNOW")
```

```
#height by cluster for dense clusters
```

```
ggplot(dense, aes(x=site.name, y=height, col = height)) + geom_point() +
  xlab("Site Cluster Name") +
  ylab(expression(paste("Height cm")) +
  theme_bw(base_size = 16) + theme(panel.grid.major =
element_blank(), panel.grid.minor = element_blank()) + ggtitle("
Seedling Height by Cluster")
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```



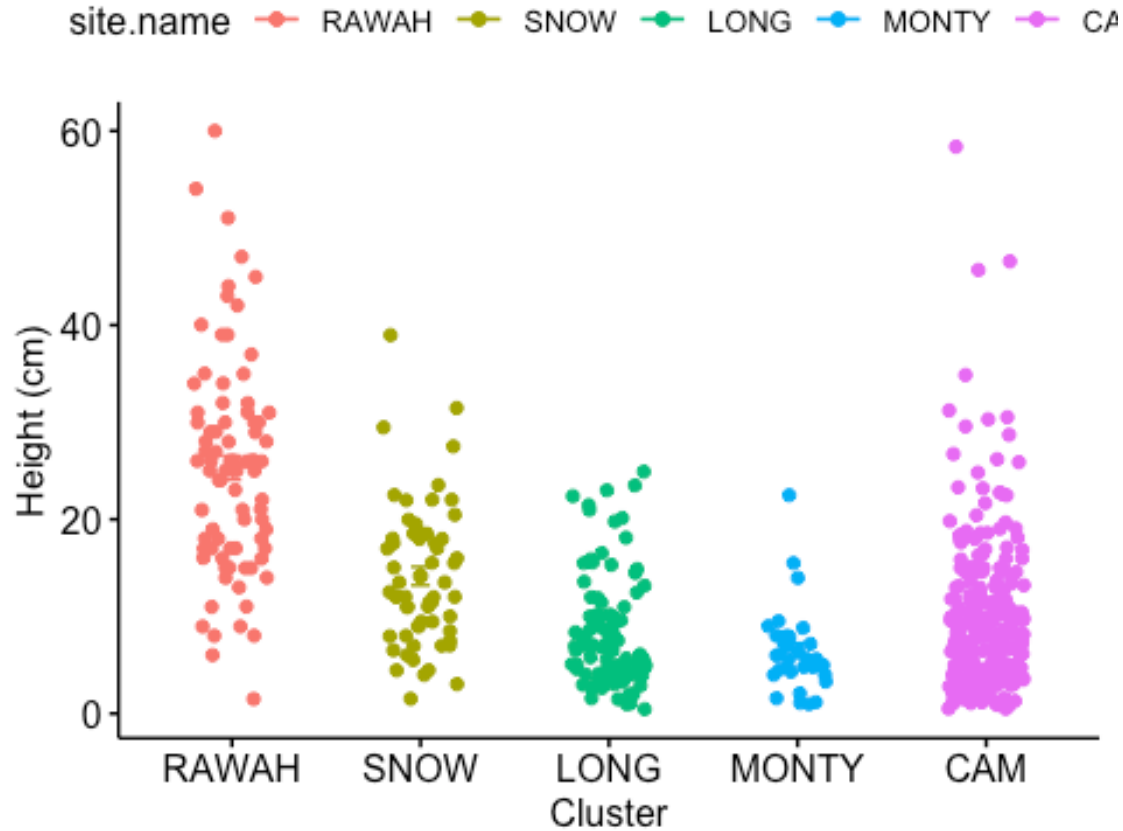
#Mean plots

```
library("ggpubr")
ggline(dense, x = "site.name", y = "Height..cm.", color = "site.name",
add = c("mean_se", "jitter"), ylab = "Height (cm)", xlab = "Cluster",
labcol = "CLuster")

## Warning: Removed 2 rows containing non-finite values
(`stat_summary()`).

## Warning: Removed 2 rows containing missing values (`geom_point()`).

## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
```



#height means by cluster

```
tapply(compiled$Height..cm., compiled$SITE.NAME, summary)
```

```
## $BLUE
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##       6.0   16.0   25.0   20.8   28.0   29.0     2
##
## $CAM
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##       0.500   4.400   8.100   9.883  13.000  58.400     1
##
## $CR69
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##       9.5   13.6   17.7   17.7   21.8   25.9     2
##
```

```
## $ELKHORN
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      25.00   25.00   25.00   26.67   27.50   30.00
##
## $FISH
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##      15.00   16.00   17.00   20.62   20.00   35.10      3
##
## $LAKE
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##      3.50   10.50   18.00   20.86   29.75   44.00      1
##
## $LONG
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.500   4.000   6.500   8.074   10.000   24.900
##
## $MONTY
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1.000   4.225   5.650   6.494   7.925   22.500
##
## $RAWAH
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##      1.50   17.00   26.00   25.31   30.50   60.00      1
##
## $RES
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##      10      10      10      10      10      10      3
##
## $SNOW
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1.500   8.875   12.250   14.167   18.500   39.000
```

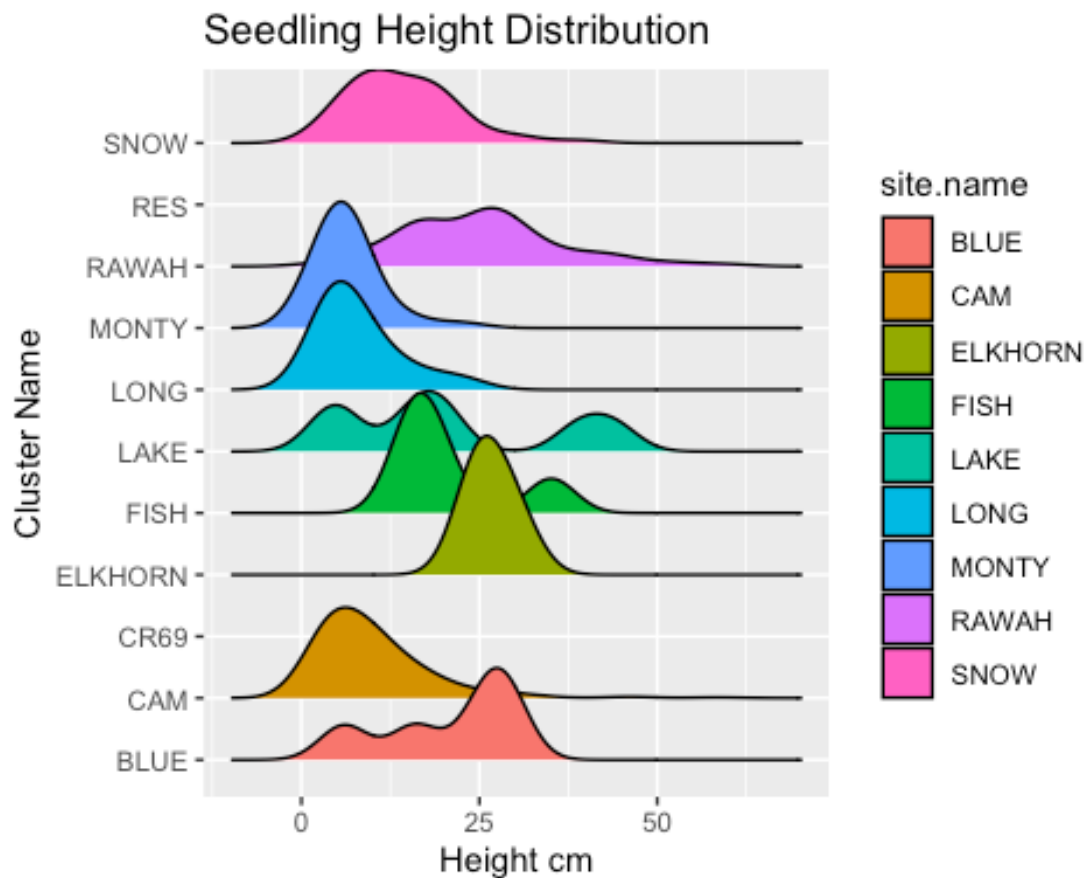
Another random interesting plot type:

```
#install.packages("ggribes")
library(ggribes)
#ridgeplot
ggplot(POTR, aes(x = height, y = site.name, fill=site.name)) +
  geom_density_ridges() +
  xlab("Height cm") +
```

```
ylab(expression(paste("Cluster Name")))+
ggtitle("Seedling Height Distribution")
```

```
## Picking joint bandwidth of 3.4
```

```
## Warning: Removed 13 rows containing non-finite values
## (`stat_density_ridges()`).
```



```
#data filtering for tests
```

```
library(dplyr)
```

```
#by cluster only
```

```
snow <- compiled %>% filter(SITE.NAME == "SNOW")
```

```
res <- compiled %>% filter(SITE.NAME == "RES")
```

```
rawah <- compiled %>% filter(SITE.NAME == "RAWAH")
```

```
monty <- compiled %>% filter(SITE.NAME == "MONTY")
```



```

long <- compiled %>% filter(SITE.NAME == "LONG")
lake <- compiled %>% filter(SITE.NAME == "LAKE")
fish <- compiled %>% filter(SITE.NAME == "FISH")
elkhorn <- compiled %>% filter(SITE.NAME == "ELKHORN")
cr69 <- compiled %>% filter(SITE.NAME == "CR69")
cam <- compiled %>% filter(SITE.NAME == "CAM")
blue <- compiled %>% filter(SITE.NAME == "BLUE")

#by substrate
ash <- compiled %>% filter(Substrate == "A" | Substrate == "A/B" |
Substrate == "A/L" | Substrate == "A/M")
bryophyte <- compiled %>% filter(Substrate == "B" | Substrate == "B/A" |
Substrate == "B/L" | Substrate == "B/M")
litter <- compiled %>% filter(Substrate == "L" | Substrate == "L/A" |
Substrate == "L/B" | Substrate == "L/M")
mineral <- compiled %>% filter(Substrate == "M" | Substrate == "M/A" |
Substrate == "M/B" | Substrate == "M/L")
rock <- compiled %>% filter(Substrate == "R")
wood <- compiled %>% filter(Substrate == "W")

#by small topo
cc <- compiled %>% filter(Small.Topo == "CC")
cv <- compiled %>% filter(Small.Topo == "CV")
f <- compiled %>% filter(Small.Topo == "F")
s <- compiled %>% filter(Small.Topo == "S")

#by large topo
CC <- compiled %>% filter(Large.Topo == "CC")
CV <- compiled %>% filter(Large.Topo == "CV")
F <- compiled %>% filter(Large.Topo == "F")
S <- compiled %>% filter(Large.Topo == "S")

#by elevation groups
high <- compiled %>% filter(Elevation > "3064")
moderate <- compiled %>% filter(between(Elevation, 2713,3064))
low <- compiled %>% filter(Elevation < "2713")

#by large CWD
Lcwdp <- compiled %>% filter(Large.CWD == "1")
Lcwda <- compiled %>% filter(Large.CWD == "0")

```

```
#by small CWD
```

```
Scwdp <- compiled %>% filter(Small.CWD == "1")
```

```
Scwda <- compiled %>% filter(Small.CWD == "0")
```

```
#seedling count variable
```

```
seedling_count_site <- count(compiled, compiled$SITE..)
```

```
seedling_count_cluster <- count(compiled, compiled$SITE.NAME)
```

```
#method of deciding relative site elevation groups
```

```
#median(POTR_site$Elevation)
```

```
#min(POTR_site$Elevation)
```

```
#max(POTR_site$Elevation)
```

```
#summary(POTR_site$Elevation)
```

```
#substrate tallies and chi-sq
```

```
count(ash)
```

```
##      n
```

```
## 1 224
```

```
count(bryophyte)
```

```
##      n
```

```
## 1 256
```

```
count(litter)
```

```
##      n
```

```
## 1 8
```

```
count(mineral)
```

```
##      n
```

```
## 1 55
```

```
count(rock)
```

```
##      n
```

```
## 1 0
```

```
count(wood)
```

```
##      n
## 1 4

substrate_counts = c(224, 256, 8, 55, 0, 4)
#chisq.test(substrate_counts, correct = F)
```

```
#topo
```

```
cc
```

```
##      SITE.. seedling SITE.NAME Transect Subplot Height..cm.
Substrate Small.Topo
## 1      5      7      LAKE      A    14-16      20.5
M      CC
## 2      6      8      LAKE      A      2-4      44.0
M      CC
## 3      6     10      LAKE      A    14-16       6.0
A      CC
## 4      7     14      RAWAH      A      0-2      27.0      B/
M      CC
## 5      7     20      RAWAH      A      0-2      26.0      B/
M      CC
## 6      7     22      RAWAH      A      0-2      17.0      B/
M      CC
## 7      7     23      RAWAH      A      0-2      28.0      B/
M      CC
## 8      7     24      RAWAH      A      0-2      28.0      B/
M      CC
## 9      7     25      RAWAH      A      0-2      44.0      B/
M      CC
## 10     7     26      RAWAH      A      0-2      15.0
M      CC
## 11     7     27      RAWAH      A      0-2      42.0
M      CC
## 12     7     33      RAWAH      B    16-18      19.0
A      CC
## 13     7     34      RAWAH      B    16-18      18.0
A      CC
## 14     7     35      RAWAH      B    16-18      11.0
A      CC
## 15     7     43      RAWAH      B    36-38      27.0
M      CC
## 16     7     49      RAWAH      B    40-42      26.0
```

A	CC						
## 17	7	51	RAWAH	B	42-44	29.0	
M	CC						
## 18	7	52	RAWAH	B	42-44	18.0	B/
M	CC						
## 19	7	53	RAWAH	B	42-44	17.0	B/
M	CC						
## 20	7	54	RAWAH	B	42-44	18.0	B/
M	CC						
## 21	7	55	RAWAH	B	42-44	15.0	B/
M	CC						
## 22	7	56	RAWAH	B	42-44	25.0	B/
M	CC						
## 23	7	57	RAWAH	B	42-44	39.0	B/
M	CC						
## 24	7	58	RAWAH	B	42-44	28.0	B/
M	CC						
## 25	7	59	RAWAH	B	42-44	35.0	
M	CC						
## 26	7	66	RAWAH	B	42-44	25.0	B/
M	CC						
## 27	7	72	RAWAH	B	42-44	26.0	
B	CC						
## 28	7	78	RAWAH	B	44-46	45.0	B/
M	CC						
## 29	7	82	RAWAH	B	46-48	8.0	
M	CC						
## 30	7	85	RAWAH	B	46-48	47.0	
M	CC						
## 31	7	86	RAWAH	B	46-48	32.0	
M	CC						
## 32	11	97	BLUE	A	26-28	25.0	A/
M	CC						
## 33	14	102	RES	B	16-18	10.0	
M	CC						
## 34	17	105	RAWAH	B	40-42	6.0	
M	CC						
## 35	19	107	RAWAH	A	0-2	14.0	
A	CC						
## 36	19	108	RAWAH	A	0-2	1.5	
A	CC						
## 37	20	117	SNOW	A	2-4	20.0	A/

B	CC						
## 38	20	127	SNOW	A	4-6	18.0	
B	CC						
## 39	20	138	SNOW	B	16-18	15.5	
A	CC						
## 40	20	142	SNOW	B	18-20	20.5	
A	CC						
## 41	20	143	SNOW	B	18-20	18.5	A/
B	CC						
## 42	20	144	SNOW	B	18-20	5.5	
A	CC						
## 43	20	145	SNOW	B	18-20	11.5	
A	CC						
## 44	20	146	SNOW	B	18-20	11.0	
A	CC						
## 45	20	147	SNOW	B	18-20	8.0	
A	CC						
## 46	20	149	SNOW	B	18-20	1.5	
A	CC						
## 47	20	151	SNOW	B	18-20	22.5	
A	CC						
## 48	20	153	SNOW	B	18-20	17.5	
A	CC						
## 49	20	154	SNOW	B	18-20	17.5	
A	CC						
## 50	20	158	SNOW	B	18-20	23.5	
B	CC						
## 51	20	159	SNOW	B	18-20	18.5	A/
B	CC						
## 52	20	160	SNOW	B	18-20	9.5	
A	CC						
## 53	20	167	SNOW	B	20-22	29.5	
A	CC						
## 54	20	168	SNOW	B	50-52	4.5	
A	CC						
## 55	21	169	LONG	A	24-26	23.5	
A	CC						
## 56	21	171	LONG	A	48-50	21.0	A/
B	CC						
## 57	21	173	LONG	A	48-50	10.0	
A	CC						
## 58	21	174	LONG	A	48-50	5.0	

B	CC						
## 59	21	175	LONG	A	48-50	14.5	A/
L	CC						
## 60	21	176	LONG	B	20-22	7.0	A/
L	CC						
## 61	23	179	MONTY	A	32-34	9.0	
A	CC						
## 62	23	180	MONTY	A	32-34	7.9	
A	CC						
## 63	23	188	MONTY	A	34-36	5.5	
A	CC						
## 64	23	189	MONTY	A	34-36	6.9	
A	CC						
## 65	23	190	MONTY	A	34-36	1.1	
A	CC						
## 66	23	196	MONTY	A	34-36	4.0	
A	CC						
## 67	23	204	MONTY	A	36-38	4.8	
A	CC						
## 68	23	205	MONTY	A	36-38	5.0	
A	CC						
## 69	24	208	MONTY	B	16-18	6.1	A/
L	CC						
## 70	25	211	LONG	A	2-4	6.8	
L	CC						
## 71	25	212	LONG	A	4-6	8.1	A/
L	CC						
## 72	25	214	LONG	A	6-8	6.0	
B	CC						
## 73	25	215	LONG	A	6-8	2.6	
B	CC						
## 74	25	216	LONG	A	6-8	3.0	
B	CC						
## 75	25	217	LONG	A	6-8	5.0	
B	CC						
## 76	25	222	LONG	A	6-8	9.6	
B	CC						
## 77	25	223	LONG	A	6-8	7.9	
B	CC						
## 78	25	225	LONG	A	6-8	8.6	
B	CC						
## 79	25	227	LONG	A	6-8	5.0	

B	CC						
## 80	25	229	LONG	A	6-8	3.1	
B	CC						
## 81	25	232	LONG	A	8-10	7.1	
M	CC						
## 82	25	234	LONG	A	8-10	7.9	A/
B	CC						
## 83	25	236	LONG	A	8-10	5.8	
B	CC						
## 84	25	238	LONG	A	8-10	3.2	
M	CC						
## 85	25	243	LONG	A	12-14	2.0	
A	CC						
## 86	25	248	LONG	A	12-14	4.0	
B	CC						
## 87	25	249	LONG	A	12-14	8.4	
B	CC						
## 88	25	250	LONG	A	12-14	3.9	
B	CC						
## 89	25	251	LONG	A	12-14	3.5	
M	CC						
## 90	25	261	LONG	A	16-18	4.0	A/
B	CC						
## 91	25	262	LONG	A	16-18	4.0	A/
B	CC						
## 92	26	271	LONG	A	24-26	11.4	
A	CC						
## 93	26	283	LONG	B	40-42	23.0	A/
B	CC						
## 94	26	284	LONG	B	40-42	12.5	
A	CC						
## 95	26	285	LONG	B	40-42	5.0	
A	CC						
## 96	27	292	LONG	B	0-2	10.2	A/
B	CC						
## 97	28	304	FISH	B	44-46	17.0	
A	CC						
## 98	34	313	CAM	A	18-20	1.1	
M	CC						
## 99	34	314	CAM	A	20-22	0.9	
A	CC						
## 100	34	315	CAM	A	30-32	0.5	

A	CC							
## 101	34	316	CAM	A	30-32	13.1		
A	CC							
## 102	34	317	CAM	A	30-32	16.3		
A	CC							
## 103	34	318	CAM	A	30-32	34.9		
A	CC							
## 104	34	321	CAM	A	34-36	26.7		
A	CC							
## 105	34	322	CAM	A	36-38	2.2		
A	CC							
## 106	34	323	CAM	A	40-42	2.1		
A	CC							
## 107	34	324	CAM	A	40-42	3.3		
A	CC							
## 108	34	325	CAM	A	40-42	4.8		
A	CC							
## 109	34	326	CAM	A	40-42	4.7	A/	
L	CC							
## 110	34	327	CAM	A	42-44	4.3	A/	
L	CC							
## 111	34	328	CAM	A	42-44	1.3	A/	
L	CC							
## 112	34	330	CAM	A	42-44	4.4		
A	CC							
## 113	34	332	CAM	A	46-48	2.4	A/	
L	CC							
## 114	34	334	CAM	A	48-50	0.8	A/	
L	CC							
## 115	34	338	CAM	B	14-16	1.6		
A	CC							
## 116	34	339	CAM	B	20-22	3.7		
A	CC							
## 117	34	340	CAM	B	38-40	1.5	A/	
L	CC							
## 118	35	342	CAM	A	14-16	31.2		
A	CC							
## 119	35	343	CAM	B	2-4	16.4		
A	CC							
## 120	35	346	CAM	B	14-16	4.4	B/	
M	CC							
## 121	35	347	CAM	B	14-16	10.4	A/	



B	CC						
## 122	36	352	CAM	A	8-10	18.8	
A	CC						
## 123	36	353	CAM	A	24-26	18.0	
A	CC						
## 124	36	357	CAM	A	40-42	5.4	
M	CC						
## 125	36	358	CAM	A	42-44	5.1	
B	CC						
## 126	36	361	CAM	A	42-44	13.2	
B	CC						
## 127	36	362	CAM	A	44-46	6.4	B/
M	CC						
## 128	36	363	CAM	A	46-48	2.3	
M	CC						
## 129	36	364	CAM	A	48-50	18.1	B/
M	CC						
## 130	36	365	CAM	A	48-50	13.1	B/
M	CC						
## 131	36	366	CAM	A	48-50	1.4	B/
M	CC						
## 132	36	367	CAM	A	48-50	8.7	B/
M	CC						
## 133	36	371	CAM	B	34-36	4.8	
B	CC						
## 134	36	372	CAM	B	34-36	2.9	
B	CC						
## 135	36	374	CAM	B	36-38	16.9	
B	CC						
## 136	36	375	CAM	B	36-38	13.0	B/
L	CC						
## 137	36	376	CAM	B	36-38	10.5	
B	CC						
## 138	36	380	CAM	B	36-38	20.4	
A	CC						
## 139	36	387	CAM	B	40-42	18.6	
B	CC						
## 140	36	388	CAM	B	40-42	15.9	
B	CC						
## 141	36	390	CAM	B	38-40	3.7	
B	CC						
## 142	36	391	CAM	B	42-44	6.1	A/

B	CC					
## 143	36	393	CAM	B	42-44	11.0
B	CC					
## 144	36	394	CAM	B	42-44	13.4
B	CC					
## 145	36	400	CAM	B	42-44	11.0
A	CC					
## 146	36	402	CAM	B	48-50	19.8
A	CC					
## 147	38	406	CAM	A	4-6	4.1
B	CC					
## 148	38	407	CAM	A	4-6	4.9
B	CC					
## 149	38	412	CAM	A	4-6	9.1
B	CC					
## 150	38	413	CAM	A	4-6	3.5
B	CC					
## 151	38	414	CAM	A	10-12	10.4
B	CC					
## 152	38	419	CAM	A	12-14	3.8
B	CC					
## 153	38	423	CAM	A	12-14	7.6
B	CC					
## 154	38	424	CAM	A	12-14	5.2
B	CC					
## 155	38	429	CAM	A	16-18	8.4
B	CC					
## 156	38	430	CAM	A	16-18	18.3
B	CC					
## 157	38	431	CAM	A	16-18	6.1
B	CC					
## 158	38	432	CAM	A	16-18	4.2
B	CC					
## 159	38	434	CAM	A	16-18	8.2
B	CC					
## 160	38	441	CAM	A	20-22	3.6
B	CC					
## 161	38	442	CAM	A	20-22	7.2
B	CC					
## 162	38	444	CAM	A	22-24	15.0
B	CC					
## 163	38	449	CAM	A	22-24	4.2

B	CC					
## 164	38	450	CAM	A	22-24	3.1
A	CC					
## 165	38	452	CAM	A	22-24	7.5
B	CC					
## 166	38	454	CAM	A	22-24	9.6
A	CC					
## 167	38	465	CAM	A	32-34	6.5
B	CC					
## 168	38	468	CAM	A	34-36	9.8
B	CC					
## 169	38	470	CAM	A	34-36	7.5
B	CC					
## 170	38	472	CAM	A	34-36	16.9
B	CC					
## 171	38	474	CAM	A	34-36	15.0
B	CC					
## 172	38	481	CAM	A	34-36	16.0
B	CC					
## 173	38	483	CAM	A	42-44	4.6
B	CC					
## 174	38	487	CAM	A	48-50	5.1
B	CC					
## 175	38	488	CAM	A	48-50	4.0
B	CC					
## 176	38	493	CAM	B	4-6	17.9
A	CC					
## 177	38	494	CAM	B	6-8	7.1
A	CC					
## 178	38	501	CAM	B	20-22	7.3
B	CC					
## 179	38	516	CAM	B	32-34	46.6
B	CC					
## 180	38	517	CAM	B	34-36	14.3
B	CC					
## 181	38	532	CAM	B	38-40	6.4
B	CC					
## 182	38	533	CAM	B	38-40	7.0
B	CC					
## 183	38	543	CAM	B	42-44	6.1
B	CC					
## 184	38	545	CAM	B	42-44	11.5

B	CC						
## 185	38	548	CAM	B	42-44	3.7	
B	CC						
## 186	38	553	CAM	B	44-46	3.9	
B	CC						
## 187	38	554	CAM	B	44-46	7.0	
B	CC						
## 188	38	555	CAM	B	44-46	5.1	
B	CC						
## 189	38	556	CAM	B	46-48	3.1	
B	CC						
## 190	38	558	CAM	B	50-52	11.8	A/
B	CC						
## 191	38	559	CAM	B	50-52	3.4	
A	CC						
## 192	38	561	CAM	B	50-52	6.5	
A	CC						
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	CC	0	0	51	0	0	
LAKE							
## 2	F	0	0	51	0	0	
LAKE							
## 3	F	1	0	51	0	0	
LAKE							
## 4	S	0	0	51	0	1	
RAWAH							
## 5	S	0	0	51	0	0	
RAWAH							
## 6	S	0	0	51	0	0	
RAWAH							
## 7	CC	0	0	51	0	0	
RAWAH							
## 8	CC	0	0	51	0	0	
RAWAH							
## 9	CC	0	0	51	0	0	
RAWAH							
## 10	CC	0	0	51	0	0	
RAWAH							
## 11	CC	0	0	51	0	1	
RAWAH							
## 12	CC	0	0	51	0	0	

RAWAH						
## 13	CC	0	0	51	0	0
RAWAH						
## 14	CC	0	0	51	0	0
RAWAH						
## 15	F	0	0	51	0	0
RAWAH						
## 16	F	1	0	51	0	0
RAWAH						
## 17	CC	0	1	51	0	0
RAWAH						
## 18	CC	1	0	51	0	0
RAWAH						
## 19	CC	1	0	51	0	0
RAWAH						
## 20	CC	1	0	51	0	0
RAWAH						
## 21	CC	1	0	51	0	0
RAWAH						
## 22	CC	1	0	51	0	0
RAWAH						
## 23	CC	1	0	51	0	0
RAWAH						
## 24	CC	1	0	51	0	0
RAWAH						
## 25	CC	1	0	51	0	0
RAWAH						
## 26	CC	1	0	51	0	1
RAWAH						
## 27	S	0	1	51	0	0
RAWAH						
## 28	S	1	0	51	0	0
RAWAH						
## 29	F	1	0	51	0	1
RAWAH						
## 30	F	0	0	51	0	0
RAWAH						
## 31	F	0	0	51	0	0
RAWAH						
## 32	CV	1	1	51	0	0
BLUE						
## 33	S	1	1	51	0	0

RES						
## 34	S	0	0	30	0	0
RAWAH						
## 35	F	1	0	51	0	0
RAWAH						
## 36	CC	1	0	51	0	0
RAWAH						
## 37	CC	1	0	51	0	0
SNOW						
## 38	CC	0	0	51	0	0
SNOW						
## 39	CC	1	1	51	0	0
SNOW						
## 40	S	1	0	51	0	0
SNOW						
## 41	S	1	0	51	0	0
SNOW						
## 42	S	1	0	51	0	0
SNOW						
## 43	S	0	0	51	0	1
SNOW						
## 44	S	0	0	51	0	1
SNOW						
## 45	S	0	0	51	0	1
SNOW						
## 46	S	0	0	51	0	0
SNOW						
## 47	S	0	0	51	0	1
SNOW						
## 48	S	0	0	51	0	1
SNOW						
## 49	S	0	0	51	0	1
SNOW						
## 50	S	0	0	51	0	1
SNOW						
## 51	CC	0	0	51	0	1
SNOW						
## 52	F	1	1	51	0	1
SNOW						
## 53	S	1	0	51	0	1
SNOW						
## 54	CC	1	0	51	0	0

SNOW						
## 55	CC	1	1	51	0	0
LONG						
## 56	F	1	0	51	0	1
LONG						
## 57	CC	1	0	51	0	0
LONG						
## 58	CC	0	1	51	0	0
LONG						
## 59	F	1	0	51	0	0
LONG						
## 60	CC	1	1	40	0	0
LONG						
## 61	CC	0	1	51	0	0
MONTY						
## 62	CC	0	0	51	0	1
MONTY						
## 63	CC	0	0	51	0	0
MONTY						
## 64	CC	0	0	51	0	0
MONTY						
## 65	CC	0	0	51	0	0
MONTY						
## 66	S	1	0	51	0	0
MONTY						
## 67	S	1	0	51	0	0
MONTY						
## 68	S	1	0	51	0	0
MONTY						
## 69	S	0	1	51	0	0
MONTY						
## 70	F	0	1	51	0	0
LONG						
## 71	F	0	1	51	0	0
LONG						
## 72	F	0	0	51	0	0
LONG						
## 73	F	0	0	51	0	0
LONG						
## 74	F	0	0	51	0	0
LONG						
## 75	F	0	0	51	0	0

LONG						
## 76	CC	0	0	51	0	0
LONG						
## 77	CC	0	0	51	0	0
LONG						
## 78	CC	0	1	51	0	0
LONG						
## 79	F	0	0	51	0	0
LONG						
## 80	F	0	0	51	0	0
LONG						
## 81	CC	1	0	51	0	0
LONG						
## 82	F	0	1	51	0	0
LONG						
## 83	CC	1	0	51	0	0
LONG						
## 84	F	1	0	51	0	0
LONG						
## 85	CC	0	1	51	0	0
LONG						
## 86	F	0	0	51	0	0
LONG						
## 87	CV	0	0	51	0	0
LONG						
## 88	CC	1	0	51	0	0
LONG						
## 89	CC	0	0	51	0	0
LONG						
## 90	CC	1	0	51	0	0
LONG						
## 91	CC	1	0	51	0	0
LONG						
## 92	CC	1	0	51	0	1
LONG						
## 93	CC	1	1	51	0	0
LONG						
## 94	CC	1	1	51	0	0
LONG						
## 95	CC	1	1	51	0	0
LONG						
## 96	S	0	0	51	0	0



LONG						
## 97	CC	0	0	19	0	0
FISH						
## 98	F	0	0	51	0	0
CAM						
## 99	S	0	1	51	0	0
CAM						
## 100	S	0	0	51	0	0
CAM						
## 101	S	0	0	51	0	0
CAM						
## 102	S	0	0	51	0	0
CAM						
## 103	S	0	0	51	0	0
CAM						
## 104	CC	0	0	51	0	0
CAM						
## 105	CC	1	0	51	0	0
CAM						
## 106	S	0	0	51	0	0
CAM						
## 107	S	0	0	51	0	0
CAM						
## 108	S	0	0	51	0	0
CAM						
## 109	S	0	1	51	0	0
CAM						
## 110	CC	1	0	51	0	0
CAM						
## 111	CC	1	0	51	0	0
CAM						
## 112	CC	1	0	51	0	0
CAM						
## 113	S	0	1	51	0	0
CAM						
## 114	CC	0	1	51	0	0
CAM						
## 115	CC	1	0	51	0	0
CAM						
## 116	S	1	0	51	0	0
CAM						
## 117	S	0	0	51	0	0

CAM						
## 118	CC	0	0	51	0	0
CAM						
## 119	S	1	1	51	0	0
CAM						
## 120	CV	1	0	51	0	0
CAM						
## 121	CV	1	0	51	0	0
CAM						
## 122	S	1	0	51	0	0
CAM						
## 123	CV	1	0	51	0	0
CAM						
## 124	S	0	1	51	0	0
CAM						
## 125	F	0	1	51	0	0
CAM						
## 126	S	0	0	51	0	0
CAM						
## 127	CC	1	1	51	0	0
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## 128	CC	0	0	51	0	0
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## 129	CC	0	0	51	0	1
CAM						
## 130	CC	1	0	51	0	0
CAM						
## 131	CC	1	0	51	0	0
CAM						
## 132	S	0	0	51	0	0
CAM						
## 133	CC	1	0	51	0	0
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## 134	CC	1	0	51	0	0
CAM						
## 135	CC	1	0	51	0	0
CAM						
## 136	F	1	0	51	0	0
CAM						
## 137	F	1	0	51	0	1
CAM						
## 138	CC	0	0	51	0	1

CAM						
## 139	S	1	0	51	0	1
CAM						
## 140	S	1	0	51	0	1
CAM						
## 141	CC	0	0	51	0	0
CAM						
## 142	S	0	1	51	0	0
CAM						
## 143	CC	1	0	51	0	0
CAM						
## 144	CC	1	0	51	0	0
CAM						
## 145	CC	1	0	51	0	0
CAM						
## 146	CC	1	0	51	0	0
CAM						
## 147	S	0	0	51	0	0
CAM						
## 148	CC	0	0	51	0	0
CAM						
## 149	CC	0	0	51	0	0
CAM						
## 150	F	1	0	51	0	0
CAM						
## 151	CC	0	0	51	0	0
CAM						
## 152	S	0	0	51	0	0
CAM						
## 153	CC	1	0	51	0	0
CAM						
## 154	CC	1	0	51	0	0
CAM						
## 155	F	0	0	51	0	1
CAM						
## 156	F	0	0	51	0	0
CAM						
## 157	F	0	0	51	0	1
CAM						
## 158	CC	0	0	51	0	0
CAM						
## 159	CC	1	0	51	0	0

CAM						
## 160	CC	1	0	51	0	0
CAM						
## 161	S	1	0	51	0	0
CAM						
## 162	CC	1	0	51	0	0
CAM						
## 163	S	0	0	51	0	0
CAM						
## 164	S	0	0	51	0	0
CAM						
## 165	S	1	0	51	0	0
CAM						
## 166	S	1	0	51	0	0
CAM						
## 167	S	1	0	51	0	0
CAM						
## 168	F	1	0	51	0	0
CAM						
## 169	F	1	0	51	0	0
CAM						
## 170	F	1	0	51	0	0
CAM						
## 171	S	0	0	51	0	0
CAM						
## 172	F	0	0	51	0	0
CAM						
## 173	F	0	0	51	0	0
CAM						
## 174	F	0	0	51	0	0
CAM						
## 175	CC	0	0	51	0	0
CAM						
## 176	CC	0	0	51	0	0
CAM						
## 177	S	1	0	51	0	0
CAM						
## 178	CC	1	0	51	0	0
CAM						
## 179	CC	1	0	51	0	0
CAM						
## 180	CV	0	0	51	0	0

CAM						
## 181	CV	0	0	51	0	0
CAM						
## 182	CV	0	0	51	0	0
CAM						
## 183	S	0	0	51	0	0
CAM						
## 184	S	0	0	51	0	0
CAM						
## 185	S	0	0	51	0	0
CAM						
## 186	S	0	0	51	0	0
CAM						
## 187	S	0	0	51	0	0
CAM						
## 188	S	0	0	51	0	0
CAM						
## 189	S	0	0	51	0	0
CAM						
## 190	CC	0	0	51	0	0
CAM						
## 191	S	0	0	51	0	0
CAM						
## 192	CC	0	0	51	0	0

CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
Elevation	Slope					
## 1	5	20.5	LAKE	427646.0	4494147	
2825	-5					
## 2	6	44.0	LAKE	427647.0	4493988	
2835	-6					
## 3	6	6.0	LAKE	427647.0	4493988	
2835	-6					
## 4	7	27.0	RAWAH	427082.0	4499706	
2710	-7					
## 5	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 6	7	17.0	RAWAH	427082.0	4499706	
2710	-7					
## 7	7	28.0	RAWAH	427082.0	4499706	
2710	-7					
## 8	7	28.0	RAWAH	427082.0	4499706	

2710	-7					
## 9		7	44.0	RAWAH	427082.0	4499706
2710	-7					
## 10		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 11		7	42.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	11.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	27.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 18		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 19		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 20		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	39.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 27		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 28		7	45.0	RAWAH	427082.0	4499706
2710	-7					
## 29		7	8.0	RAWAH	427082.0	4499706

2710	-7					
## 30		7	47.0	RAWAH	427082.0	4499706
2710	-7					
## 31		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 32		11	25.0	BLUE	427118.0	4493949
2901	-10					
## 33		14	10.0	RES	426126.0	4490180
3040	-7					
## 34		17	6.0	RAWAH	426806.8	4499771
2715	-6					
## 35		19	14.0	RAWAH	427155.5	4498773
2751	-10					
## 36		19	1.5	RAWAH	427155.5	4498773
2751	-10					
## 37		20	20.0	SNOW	426996.6	4492304
2959	-10					
## 38		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 39		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 40		20	20.5	SNOW	426996.6	4492304
2959	-10					
## 41		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 42		20	5.5	SNOW	426996.6	4492304
2959	-10					
## 43		20	11.5	SNOW	426996.6	4492304
2959	-10					
## 44		20	11.0	SNOW	426996.6	4492304
2959	-10					
## 45		20	8.0	SNOW	426996.6	4492304
2959	-10					
## 46		20	1.5	SNOW	426996.6	4492304
2959	-10					
## 47		20	22.5	SNOW	426996.6	4492304
2959	-10					
## 48		20	17.5	SNOW	426996.6	4492304
2959	-10					
## 49		20	17.5	SNOW	426996.6	4492304
2959	-10					
## 50		20	23.5	SNOW	426996.6	4492304

2959	-10					
## 51		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 52		20	9.5	SNOW	426996.6	4492304
2959	-10					
## 53		20	29.5	SNOW	426996.6	4492304
2959	-10					
## 54		20	4.5	SNOW	426996.6	4492304
2959	-10					
## 55		21	23.5	LONG	429815.3	4490511
3029	-1					
## 56		21	21.0	LONG	429815.3	4490511
3029	-1					
## 57		21	10.0	LONG	429815.3	4490511
3029	-1					
## 58		21	5.0	LONG	429815.3	4490511
3029	-1					
## 59		21	14.5	LONG	429815.3	4490511
3029	-1					
## 60		21	7.0	LONG	429815.3	4490511
3029	-1					
## 61		23	9.0	MONTY	424655.0	4489019
3259	-13					
## 62		23	7.9	MONTY	424655.0	4489019
3259	-13					
## 63		23	5.5	MONTY	424655.0	4489019
3259	-13					
## 64		23	6.9	MONTY	424655.0	4489019
3259	-13					
## 65		23	1.1	MONTY	424655.0	4489019
3259	-13					
## 66		23	4.0	MONTY	424655.0	4489019
3259	-13					
## 67		23	4.8	MONTY	424655.0	4489019
3259	-13					
## 68		23	5.0	MONTY	424655.0	4489019
3259	-13					
## 69		24	6.1	MONTY	424640.0	4488778
3199	-12					
## 70		25	6.8	LONG	431465.0	4490417
3068	-7					
## 71		25	8.1	LONG	431465.0	4490417



3068	-7					
## 72		25	6.0	LONG	431465.0	4490417
3068	-7					
## 73		25	2.6	LONG	431465.0	4490417
3068	-7					
## 74		25	3.0	LONG	431465.0	4490417
3068	-7					
## 75		25	5.0	LONG	431465.0	4490417
3068	-7					
## 76		25	9.6	LONG	431465.0	4490417
3068	-7					
## 77		25	7.9	LONG	431465.0	4490417
3068	-7					
## 78		25	8.6	LONG	431465.0	4490417
3068	-7					
## 79		25	5.0	LONG	431465.0	4490417
3068	-7					
## 80		25	3.1	LONG	431465.0	4490417
3068	-7					
## 81		25	7.1	LONG	431465.0	4490417
3068	-7					
## 82		25	7.9	LONG	431465.0	4490417
3068	-7					
## 83		25	5.8	LONG	431465.0	4490417
3068	-7					
## 84		25	3.2	LONG	431465.0	4490417
3068	-7					
## 85		25	2.0	LONG	431465.0	4490417
3068	-7					
## 86		25	4.0	LONG	431465.0	4490417
3068	-7					
## 87		25	8.4	LONG	431465.0	4490417
3068	-7					
## 88		25	3.9	LONG	431465.0	4490417
3068	-7					
## 89		25	3.5	LONG	431465.0	4490417
3068	-7					
## 90		25	4.0	LONG	431465.0	4490417
3068	-7					
## 91		25	4.0	LONG	431465.0	4490417
3068	-7					
## 92		26	11.4	LONG	431200.0	4490450

3099	-48					
## 93		26	23.0	LONG	431200.0	4490450
3099	-48					
## 94		26	12.5	LONG	431200.0	4490450
3099	-48					
## 95		26	5.0	LONG	431200.0	4490450
3099	-48					
## 96		27	10.2	LONG	430929.0	4490476
3090	-11					
## 97		28	17.0	FISH	454709.0	4496418
2571	-5					
## 98		34	1.1	CAM	434425.0	4485996
3106	-9					
## 99		34	0.9	CAM	434425.0	4485996
3106	-9					
## 100		34	0.5	CAM	434425.0	4485996
3106	-9					
## 101		34	13.1	CAM	434425.0	4485996
3106	-9					
## 102		34	16.3	CAM	434425.0	4485996
3106	-9					
## 103		34	34.9	CAM	434425.0	4485996
3106	-9					
## 104		34	26.7	CAM	434425.0	4485996
3106	-9					
## 105		34	2.2	CAM	434425.0	4485996
3106	-9					
## 106		34	2.1	CAM	434425.0	4485996
3106	-9					
## 107		34	3.3	CAM	434425.0	4485996
3106	-9					
## 108		34	4.8	CAM	434425.0	4485996
3106	-9					
## 109		34	4.7	CAM	434425.0	4485996
3106	-9					
## 110		34	4.3	CAM	434425.0	4485996
3106	-9					
## 111		34	1.3	CAM	434425.0	4485996
3106	-9					
## 112		34	4.4	CAM	434425.0	4485996
3106	-9					
## 113		34	2.4	CAM	434425.0	4485996

3106	-9					
## 114		34	0.8	CAM	434425.0	4485996
3106	-9					
## 115		34	1.6	CAM	434425.0	4485996
3106	-9					
## 116		34	3.7	CAM	434425.0	4485996
3106	-9					
## 117		34	1.5	CAM	434425.0	4485996
3106	-9					
## 118		35	31.2	CAM	434642.0	4485999
3093	-5					
## 119		35	16.4	CAM	434642.0	4485999
3093	-5					
## 120		35	4.4	CAM	434642.0	4485999
3093	-5					
## 121		35	10.4	CAM	434642.0	4485999
3093	-5					
## 122		36	18.8	CAM	434021.0	4485004
3020	-10					
## 123		36	18.0	CAM	434021.0	4485004
3020	-10					
## 124		36	5.4	CAM	434021.0	4485004
3020	-10					
## 125		36	5.1	CAM	434021.0	4485004
3020	-10					
## 126		36	13.2	CAM	434021.0	4485004
3020	-10					
## 127		36	6.4	CAM	434021.0	4485004
3020	-10					
## 128		36	2.3	CAM	434021.0	4485004
3020	-10					
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3020	-10					
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3020	-10					
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3020	-10					
## 132		36	8.7	CAM	434021.0	4485004
3020	-10					
## 133		36	4.8	CAM	434021.0	4485004
3020	-10					
## 134		36	2.9	CAM	434021.0	4485004

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## 144		36	13.4	CAM	434021.0	4485004
3020	-10					
## 145		36	11.0	CAM	434021.0	4485004
3020	-10					
## 146		36	19.8	CAM	434021.0	4485004
3020	-10					
## 147		38	4.1	CAM	434173.0	4486246
3154	-4					
## 148		38	4.9	CAM	434173.0	4486246
3154	-4					
## 149		38	9.1	CAM	434173.0	4486246
3154	-4					
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3154	-4					
## 151		38	10.4	CAM	434173.0	4486246
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## 152		38	3.8	CAM	434173.0	4486246
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## 153		38	7.6	CAM	434173.0	4486246
3154	-4					
## 154		38	5.2	CAM	434173.0	4486246
3154	-4					
## 155		38	8.4	CAM	434173.0	4486246

3154	-4					
## 156		38	18.3	CAM	434173.0	4486246
3154	-4					
## 157		38	6.1	CAM	434173.0	4486246
3154	-4					
## 158		38	4.2	CAM	434173.0	4486246
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## 159		38	8.2	CAM	434173.0	4486246
3154	-4					
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3154	-4					
## 161		38	7.2	CAM	434173.0	4486246
3154	-4					
## 162		38	15.0	CAM	434173.0	4486246
3154	-4					
## 163		38	4.2	CAM	434173.0	4486246
3154	-4					
## 164		38	3.1	CAM	434173.0	4486246
3154	-4					
## 165		38	7.5	CAM	434173.0	4486246
3154	-4					
## 166		38	9.6	CAM	434173.0	4486246
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## 167		38	6.5	CAM	434173.0	4486246
3154	-4					
## 168		38	9.8	CAM	434173.0	4486246
3154	-4					
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## 172		38	16.0	CAM	434173.0	4486246
3154	-4					
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3154	-4					
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## 176		38	17.9	CAM	434173.0	4486246

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3154	-4					
## 178		38	7.3	CAM	434173.0	4486246
3154	-4					
## 179		38	46.6	CAM	434173.0	4486246
3154	-4					
## 180		38	14.3	CAM	434173.0	4486246
3154	-4					
## 181		38	6.4	CAM	434173.0	4486246
3154	-4					
## 182		38	7.0	CAM	434173.0	4486246
3154	-4					
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## 184		38	11.5	CAM	434173.0	4486246
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## 185		38	3.7	CAM	434173.0	4486246
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3154	-4					
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3154	-4					
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3154	-4					
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3154	-4					
## 190		38	11.8	CAM	434173.0	4486246
3154	-4					
## 191		38	3.4	CAM	434173.0	4486246
3154	-4					
## 192		38	6.5	CAM	434173.0	4486246
3154	-4					
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
Transect.B						
## 1	75		CC			75
165						
## 2	173		CC			18
108						
## 3	173		CC			18
108						
## 4	30		F			252

162				
## 5	30		F	252
162				
## 6	30		F	252
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## 7	30		F	252
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## 8	30		F	252
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## 9	30		F	252
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## 10	30		F	252
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## 11	30		F	252
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## 12	30		F	252
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## 13	30		F	252
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## 14	30		F	252
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## 15	30		F	252
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## 18	30		F	252
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## 19	30		F	252
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## 20	30		F	252
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## 21	30		F	252
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## 23	30		F	252
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## 24	30		F	252
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## 25	30		F	252

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## 26	30		F	252
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## 27	30		F	252
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## 28	30		F	252
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## 29	30		F	252
162				
## 30	30		F	252
162				
## 31	30		F	252
162				
## 32	92		F	290
20				
## 33	342		F	276
186				
## 34	108		F/S	142
228				
## 35	84		F/S	356
264				
## 36	84		F/S	356
264				
## 37	12		CV	228
312				
## 38	12		CV	228
312				
## 39	12		CV	228
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## 40	12		CV	228
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## 41	12		CV	228
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## 42	12		CV	228
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## 43	12		CV	228
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## 44	12		CV	228
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## 45	12		CV	228
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## 46	12		CV	228



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## 47	12	CV	228
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## 54	12	CV	228
312			
## 55	298	CC	288
210			
## 56	298	CC	288
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## 57	298	CC	288
210			
## 58	298	CC	288
210			
## 59	298	CC	288
210			
## 60	298	CC	288
210			
## 61	194	F/S	46
316			
## 62	194	F/S	46
316			
## 63	194	F/S	46
316			
## 64	194	F/S	46
316			
## 65	194	F/S	46
316			
## 66	194	F/S	46
316			
## 67	194	F/S	46

316			
## 68	194	F/S	46
316			
## 69	160	F/S	184
90			
## 70	130	F	222
310			
## 71	130	F	222
310			
## 72	130	F	222
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## 73	130	F	222
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## 74	130	F	222
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## 75	130	F	222
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## 85	130	F	222
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## 86	130	F	222
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## 87	130	F	222
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## 88	130	F	222

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## 89	130	F	222
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## 90	130	F	222
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## 91	130	F	222
310			
## 92	240	CC	210
120			
## 93	240	CC	210
120			
## 94	240	CC	210
120			
## 95	240	CC	210
120			
## 96	120	S	280
110			
## 97	286	CC	106
190			
## 98	194	F/S	274
180			
## 99	194	F/S	274
180			
## 100	194	F/S	274
180			
## 101	194	F/S	274
180			
## 102	194	F/S	274
180			
## 103	194	F/S	274
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## 104	194	F/S	274
180			
## 105	194	F/S	274
180			
## 106	194	F/S	274
180			
## 107	194	F/S	274
180			
## 108	194	F/S	274
180			
## 109	194	F/S	274

180			
## 110	194	F/S	274
180			
## 111	194	F/S	274
180			
## 112	194	F/S	274
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## 113	194	F/S	274
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## 114	194	F/S	274
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## 115	194	F/S	274
180			
## 116	194	F/S	274
180			
## 117	194	F/S	274
180			
## 118	90	CC	72
164			
## 119	90	CC	72
164			
## 120	90	CC	72
164			
## 121	90	CC	72
164			
## 122	216	F/S	166
74			
## 123	216	F/S	166
74			
## 124	216	F/S	166
74			
## 125	216	F/S	166
74			
## 126	216	F/S	166
74			
## 127	216	F/S	166
74			
## 128	216	F/S	166
74			
## 129	216	F/S	166
74			
## 130	216	F/S	166

74				
##	131	216	F/S	166
74				
##	132	216	F/S	166
74				
##	133	216	F/S	166
74				
##	134	216	F/S	166
74				
##	135	216	F/S	166
74				
##	136	216	F/S	166
74				
##	137	216	F/S	166
74				
##	138	216	F/S	166
74				
##	139	216	F/S	166
74				
##	140	216	F/S	166
74				
##	141	216	F/S	166
74				
##	142	216	F/S	166
74				
##	143	216	F/S	166
74				
##	144	216	F/S	166
74				
##	145	216	F/S	166
74				
##	146	216	F/S	166
74				
##	147	190	F/S	56
142				
##	148	190	F/S	56
142				
##	149	190	F/S	56
142				
##	150	190	F/S	56
142				
##	151	190	F/S	56

142				
## 152	190	F/S		56
142				
## 153	190	F/S		56
142				
## 154	190	F/S		56
142				
## 155	190	F/S		56
142				
## 156	190	F/S		56
142				
## 157	190	F/S		56
142				
## 158	190	F/S		56
142				
## 159	190	F/S		56
142				
## 160	190	F/S		56
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142				
## 163	190	F/S		56
142				
## 164	190	F/S		56
142				
## 165	190	F/S		56
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## 166	190	F/S		56
142				
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142				
## 172	190	F/S		56

142				
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142				
## 174	190	F/S		56
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## 175	190	F/S		56
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## 176	190	F/S		56
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## 179	190	F/S		56
142				
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142				
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142				
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142				
## 184	190	F/S		56
142				
## 185	190	F/S		56
142				
## 186	190	F/S		56
142				
## 187	190	F/S		56
142				
## 188	190	F/S		56
142				
## 189	190	F/S		56
142				
## 190	190	F/S		56
142				
## 191	190	F/S		56
142				
## 192	190	F/S		56
142				

##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen
## 1	51	51.0
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## 97	51	5.4
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## 189	51	51.0
## 190	51	51.0
## 191	51	51.0
## 192	51	51.0

cv

##	SITE..	seedling	SITE.NAME	Transect	Subplot	Height..cm.	Substrate
## 1	7	41	RAWAH	B	34-36	13.0	A
CV							
## 2	7	42	RAWAH	B	34-36	29.0	A

CV							
## 3	7	60	RAWAH	B	42-44	11.0	B
CV							
## 4	7	61	RAWAH	B	42-44	15.0	B
CV							
## 5	7	62	RAWAH	B	42-44	8.0	B
CV							
## 6	7	88	RAWAH	B	48-50	17.0	M
CV							
## 7	7	89	RAWAH	B	48-50	26.0	M
CV							
## 8	7	90	RAWAH	B	48-50	32.0	M
CV							
## 9	20	118	SNOW	A	2-4	22.0	A/B
CV							
## 10	20	123	SNOW	A	4-6	9.0	A/B
CV							
## 11	20	124	SNOW	A	4-6	9.5	A
CV							
## 12	20	125	SNOW	A	4-6	11.0	A
CV							
## 13	20	132	SNOW	B	10-12	4.5	B
CV							
## 14	20	134	SNOW	B	10-12	15.0	B/M
CV							
## 15	20	156	SNOW	B	18-20	7.5	B
CV							
## 16	20	157	SNOW	B	18-20	12.0	B
CV							
## 17	20	161	SNOW	B	18-20	13.5	A
CV							
## 18	20	163	SNOW	B	18-20	31.5	A
CV							
## 19	20	165	SNOW	B	20-22	22.0	A
CV							
## 20	23	181	MONTY	A	32-34	8.8	A
CV							
## 21	23	182	MONTY	A	32-34	8.0	A
CV							
## 22	23	183	MONTY	A	32-34	15.5	A
CV							
## 23	23	184	MONTY	A	32-34	6.0	A

CV								
##	24	23	185	MONTY	A	32-34	14.0	A
CV								
##	25	23	193	MONTY	A	34-36	4.3	A/L
CV								
##	26	23	194	MONTY	A	34-36	4.6	A/L
CV								
##	27	23	195	MONTY	A	34-36	5.0	A/L
CV								
##	28	23	197	MONTY	A	34-36	4.0	A
CV								
##	29	23	198	MONTY	A	36-38	5.6	A
CV								
##	30	23	199	MONTY	A	36-38	7.2	A
CV								
##	31	23	201	MONTY	A	36-38	7.4	A
CV								
##	32	25	213	LONG	A	6-8	6.1	B
CV								
##	33	25	224	LONG	A	6-8	3.0	B
CV								
##	34	25	226	LONG	A	6-8	5.3	B
CV								
##	35	25	228	LONG	A	6-8	10.2	B
CV								
##	36	25	235	LONG	A	8-10	4.6	B
CV								
##	37	25	237	LONG	A	8-10	7.1	M
CV								
##	38	26	274	LONG	A	26-28	5.7	B
CV								
##	39	27	295	LONG	B	0-2	14.9	B
CV								
##	40	34	319	CAM	A	32-34	1.2	A
CV								
##	41	34	337	CAM	B	12-14	30.5	A/L
CV								
##	42	35	345	CAM	B	4-6	24.8	A/B
CV								
##	43	36	355	CAM	A	30-32	4.1	A/W
CV								
##	44	36	359	CAM	A	42-44	2.9	B

CV								
## 45	36	368	CAM	A	48-50	8.5	B/M	
CV								
## 46	36	373	CAM	B	34-36	13.8	B	
CV								
## 47	36	378	CAM	B	36-38	29.6	B	
CV								
## 48	38	405	CAM	A	0-2	18.6	A/B	
CV								
## 49	38	421	CAM	A	12-14	5.5	B	
CV								
## 50	38	428	CAM	A	14-16	4.7	B	
CV								
## 51	38	455	CAM	A	26-28	1.9	A	
CV								
## 52	38	457	CAM	A	32-34	9.6	B	
CV								
## 53	38	459	CAM	A	32-34	19.1	B	
CV								
## 54	38	467	CAM	A	32-34	6.3	B	
CV								
## 55	38	519	CAM	B	34-36	25.9	B	
CV								
## 56	38	541	CAM	B	42-44	8.1	B	
CV								
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	site.name	
## 1	S	1	0	51	0	0		
RAWAH								
## 2	S	1	0	51	0	0		
RAWAH								
## 3	CV	0	0	51	0	0		
RAWAH								
## 4	CV	0	0	51	0	0		
RAWAH								
## 5	CV	0	0	51	0	0		
RAWAH								
## 6	F	0	1	51	0	1		
RAWAH								
## 7	F	0	1	51	0	0		
RAWAH								
## 8	CV	0	0	51	0	0		

RAWAH							
## 9	CC	1	0	51	0	1	
SNOW							
## 10	CC	0	0	51	0	0	
SNOW							
## 11	CC	0	0	51	0	1	
SNOW							
## 12	CC	0	0	51	0	0	
SNOW							
## 13	S	0	1	51	0	0	
SNOW							
## 14	CC	1	1	51	0	0	
SNOW							
## 15	S	0	0	51	0	1	
SNOW							
## 16	S	0	0	51	0	1	
SNOW							
## 17	S	1	0	51	0	1	
SNOW							
## 18	S	1	0	51	0	1	
SNOW							
## 19	S	0	0	51	0	1	
SNOW							
## 20	CC	0	1	51	0	1	
MONTY							
## 21	CC	0	0	51	0	1	
MONTY							
## 22	F	1	1	51	0	0	
MONTY							
## 23	CC	0	0	51	0	1	
MONTY							
## 24	CC	0	0	51	0	1	
MONTY							
## 25	CC	0	0	51	0	1	
MONTY							
## 26	S	0	0	51	0	0	
MONTY							
## 27	S	0	0	51	0	0	
MONTY							
## 28	S	1	0	51	0	0	
MONTY							
## 29	CC	0	0	51	0	1	



MONTY						
## 30	CC	0	0	51	0	1
MONTY						
## 31	CC	1	0	51	0	0
MONTY						
## 32	F	0	1	51	0	0
LONG						
## 33	CC	0	1	51	0	0
LONG						
## 34	F	0	0	51	0	0
LONG						
## 35	CC	0	0	51	0	0
LONG						
## 36	F	0	0	51	0	0
LONG						
## 37	F	0	0	51	0	0
LONG						
## 38	CC	0	0	51	0	0
LONG						
## 39	S	0	0	51	0	1
LONG						
## 40	S	1	1	51	0	0
CAM						
## 41	S	0	0	51	0	0
CAM						
## 42	CC	0	1	51	0	1
CAM						
## 43	CV	0	0	51	0	0
CAM						
## 44	F	0	1	51	0	0
CAM						
## 45	S	1	0	51	0	0
CAM						
## 46	CV	1	0	51	0	0
CAM						
## 47	F	1	0	51	0	0
CAM						
## 48	F	1	0	51	0	0
CAM						
## 49	S	0	0	51	0	0
CAM						
## 50	CC	1	0	51	0	0

CAM						
## 51	S	0	0	51	0	0
CAM						
## 52	S	1	0	51	0	0
CAM						
## 53	CV	0	0	51	0	0
CAM						
## 54	S	1	0	51	0	0
CAM						
## 55	S	0	1	51	0	0
CAM						
## 56	S	0	0	51	0	0
CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
	Elevation	Slope				
## 1	7	13.0	RAWAH	427082.0	4499706	
2710	-7					
## 2	7	29.0	RAWAH	427082.0	4499706	
2710	-7					
## 3	7	11.0	RAWAH	427082.0	4499706	
2710	-7					
## 4	7	15.0	RAWAH	427082.0	4499706	
2710	-7					
## 5	7	8.0	RAWAH	427082.0	4499706	
2710	-7					
## 6	7	17.0	RAWAH	427082.0	4499706	
2710	-7					
## 7	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 8	7	32.0	RAWAH	427082.0	4499706	
2710	-7					
## 9	20	22.0	SNOW	426996.6	4492304	
2959	-10					
## 10	20	9.0	SNOW	426996.6	4492304	
2959	-10					
## 11	20	9.5	SNOW	426996.6	4492304	
2959	-10					
## 12	20	11.0	SNOW	426996.6	4492304	
2959	-10					
## 13	20	4.5	SNOW	426996.6	4492304	
2959	-10					
## 14	20	15.0	SNOW	426996.6	4492304	

2959	-10					
## 15		20	7.5	SNOW	426996.6	4492304
2959	-10					
## 16		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 17		20	13.5	SNOW	426996.6	4492304
2959	-10					
## 18		20	31.5	SNOW	426996.6	4492304
2959	-10					
## 19		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 20		23	8.8	MONTY	424655.0	4489019
3259	-13					
## 21		23	8.0	MONTY	424655.0	4489019
3259	-13					
## 22		23	15.5	MONTY	424655.0	4489019
3259	-13					
## 23		23	6.0	MONTY	424655.0	4489019
3259	-13					
## 24		23	14.0	MONTY	424655.0	4489019
3259	-13					
## 25		23	4.3	MONTY	424655.0	4489019
3259	-13					
## 26		23	4.6	MONTY	424655.0	4489019
3259	-13					
## 27		23	5.0	MONTY	424655.0	4489019
3259	-13					
## 28		23	4.0	MONTY	424655.0	4489019
3259	-13					
## 29		23	5.6	MONTY	424655.0	4489019
3259	-13					
## 30		23	7.2	MONTY	424655.0	4489019
3259	-13					
## 31		23	7.4	MONTY	424655.0	4489019
3259	-13					
## 32		25	6.1	LONG	431465.0	4490417
3068	-7					
## 33		25	3.0	LONG	431465.0	4490417
3068	-7					
## 34		25	5.3	LONG	431465.0	4490417
3068	-7					
## 35		25	10.2	LONG	431465.0	4490417

3068	-7					
## 36		25	4.6	LONG	431465.0	4490417
3068	-7					
## 37		25	7.1	LONG	431465.0	4490417
3068	-7					
## 38		26	5.7	LONG	431200.0	4490450
3099	-48					
## 39		27	14.9	LONG	430929.0	4490476
3090	-11					
## 40		34	1.2	CAM	434425.0	4485996
3106	-9					
## 41		34	30.5	CAM	434425.0	4485996
3106	-9					
## 42		35	24.8	CAM	434642.0	4485999
3093	-5					
## 43		36	4.1	CAM	434021.0	4485004
3020	-10					
## 44		36	2.9	CAM	434021.0	4485004
3020	-10					
## 45		36	8.5	CAM	434021.0	4485004
3020	-10					
## 46		36	13.8	CAM	434021.0	4485004
3020	-10					
## 47		36	29.6	CAM	434021.0	4485004
3020	-10					
## 48		38	18.6	CAM	434173.0	4486246
3154	-4					
## 49		38	5.5	CAM	434173.0	4486246
3154	-4					
## 50		38	4.7	CAM	434173.0	4486246
3154	-4					
## 51		38	1.9	CAM	434173.0	4486246
3154	-4					
## 52		38	9.6	CAM	434173.0	4486246
3154	-4					
## 53		38	19.1	CAM	434173.0	4486246
3154	-4					
## 54		38	6.3	CAM	434173.0	4486246
3154	-4					
## 55		38	25.9	CAM	434173.0	4486246
3154	-4					
## 56		38	8.1	CAM	434173.0	4486246

3154	-4		
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.
Transect.B			
## 1	30	F	252
162			
## 2	30	F	252
162			
## 3	30	F	252
162			
## 4	30	F	252
162			
## 5	30	F	252
162			
## 6	30	F	252
162			
## 7	30	F	252
162			
## 8	30	F	252
162			
## 9	12	CV	228
312			
## 10	12	CV	228
312			
## 11	12	CV	228
312			
## 12	12	CV	228
312			
## 13	12	CV	228
312			
## 14	12	CV	228
312			
## 15	12	CV	228
312			
## 16	12	CV	228
312			
## 17	12	CV	228
312			
## 18	12	CV	228
312			
## 19	12	CV	228
312			
## 20	194	F/S	46

316			
## 21	194	F/S	46
316			
## 22	194	F/S	46
316			
## 23	194	F/S	46
316			
## 24	194	F/S	46
316			
## 25	194	F/S	46
316			
## 26	194	F/S	46
316			
## 27	194	F/S	46
316			
## 28	194	F/S	46
316			
## 29	194	F/S	46
316			
## 30	194	F/S	46
316			
## 31	194	F/S	46
316			
## 32	130	F	222
310			
## 33	130	F	222
310			
## 34	130	F	222
310			
## 35	130	F	222
310			
## 36	130	F	222
310			
## 37	130	F	222
310			
## 38	240	CC	210
120			
## 39	120	S	280
110			
## 40	194	F/S	274
180			
## 41	194	F/S	274

180			
## 42	90	CC	72
164			
## 43	216	F/S	166
74			
## 44	216	F/S	166
74			
## 45	216	F/S	166
74			
## 46	216	F/S	166
74			
## 47	216	F/S	166
74			
## 48	190	F/S	56
142			
## 49	190	F/S	56
142			
## 50	190	F/S	56
142			
## 51	190	F/S	56
142			
## 52	190	F/S	56
142			
## 53	190	F/S	56
142			
## 54	190	F/S	56
142			
## 55	190	F/S	56
142			
## 56	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	25	
## 2	51	25	
## 3	51	25	
## 4	51	25	
## 5	51	25	
## 6	51	25	
## 7	51	25	
## 8	51	25	
## 9	51	51	

## 10	51	51
## 11	51	51
## 12	51	51
## 13	51	51
## 14	51	51
## 15	51	51
## 16	51	51
## 17	51	51
## 18	51	51
## 19	51	51
## 20	51	51
## 21	51	51
## 22	51	51
## 23	51	51
## 24	51	51
## 25	51	51
## 26	51	51
## 27	51	51
## 28	51	51
## 29	51	51
## 30	51	51
## 31	51	51
## 32	51	51
## 33	51	51
## 34	51	51
## 35	51	51
## 36	51	51
## 37	51	51
## 38	51	51
## 39	51	51
## 40	51	51
## 41	51	51
## 42	51	51
## 43	51	51
## 44	51	51
## 45	51	51
## 46	51	51
## 47	51	51
## 48	51	51
## 49	51	51



## 50	51	51
## 51	51	51
## 52	51	51
## 53	51	51
## 54	51	51
## 55	51	51
## 56	51	51

s

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.	
Substrate	Small.Topo					
## 1	6	12	LAKE	A	16-18	39.0
M	S					
## 2	7	18	RAWAH	A	0-2	17.0 B/
M	S					
## 3	7	19	RAWAH	A	0-2	31.0 B/
M	S					
## 4	7	21	RAWAH	A	0-2	16.0 B/
M	S					
## 5	7	40	RAWAH	B	34-36	23.0
A	S					
## 6	7	63	RAWAH	B	42-44	30.0
W	S					
## 7	7	64	RAWAH	B	42-44	30.0
W	S					
## 8	7	65	RAWAH	B	42-44	39.0
W	S					
## 9	7	73	RAWAH	B	42-44	16.0 B/
M	S					
## 10	7	74	RAWAH	B	42-44	20.0
M	S					
## 11	7	76	RAWAH	B	44-46	34.0 B/
M	S					
## 12	7	77	RAWAH	B	44-46	60.0 B/
M	S					
## 13	7	83	RAWAH	B	46-48	43.0
M	S					
## 14	7	84	RAWAH	B	46-48	15.0
M	S					
## 15	8	91	RAWAH	A	0-2	9.0
M	S					

## 16	11	96	BLUE	A	20-22	29.0	A/
M	S						
## 17	12	98	BLUE	A	0-2	28.0	
M	S						
## 18	12	99	BLUE	A	0-2	16.0	
M	S						
## 19	12	100	BLUE	A	0-2	6.0	
M	S						
## 20	20	109	SNOW	A	2-4	39.0	A/
B	S						
## 21	20	110	SNOW	A	2-4	19.0	A/
B	S						
## 22	20	111	SNOW	A	2-4	3.0	A/
B	S						
## 23	20	113	SNOW	A	2-4	7.0	A/
B	S						
## 24	20	119	SNOW	A	4-6	6.0	
M	S						
## 25	20	120	SNOW	A	4-6	12.0	A/
B	S						
## 26	20	121	SNOW	A	4-6	7.0	A/
B	S						
## 27	20	122	SNOW	A	4-6	8.0	A/
B	S						
## 28	20	126	SNOW	A	4-6	11.0	
B	S						
## 29	20	128	SNOW	A	4-6	12.0	A/
B	S						
## 30	20	129	SNOW	A	4-6	9.0	
B	S						
## 31	20	130	SNOW	A	4-6	8.5	A/
B	S						
## 32	20	148	SNOW	B	18-20	13.5	
A	S						
## 33	20	150	SNOW	B	18-20	16.0	
A	S						
## 34	20	152	SNOW	B	18-20	12.5	
A	S						
## 35	20	155	SNOW	B	18-20	11.5	
A	S						
## 36	20	162	SNOW	B	18-20	18.0	
A	S						

## 37	20	164	SNOW	B	20-22	19.5	
M	S						
## 38	20	166	SNOW	B	20-22	18.5	
A	S						
## 39	21	172	LONG	A	48-50	5.0	A/
B	S						
## 40	22	177	MONTY	B	10-12	22.5	
A	S						
## 41	23	178	MONTY	A	32-34	9.5	
A	S						
## 42	23	187	MONTY	A	34-36	1.0	
A	S						
## 43	23	191	MONTY	A	34-36	1.2	
A	S						
## 44	23	192	MONTY	A	34-36	1.6	
A	S						
## 45	23	200	MONTY	A	36-38	5.7	
A	S						
## 46	23	203	MONTY	A	36-38	3.3	
A	S						
## 47	23	206	MONTY	A	38-40	7.4	
A	S						
## 48	25	230	LONG	A	6-8	5.1	
B	S						
## 49	25	231	LONG	A	6-8	4.1	
B	S						
## 50	25	233	LONG	A	8-10	13.6	
M	S						
## 51	25	241	LONG	A	12-14	11.9	A/
B	S						
## 52	25	242	LONG	A	12-14	6.8	A/
B	S						
## 53	25	244	LONG	A	12-14	5.0	
B	S						
## 54	25	246	LONG	A	12-14	24.9	
B	S						
## 55	25	247	LONG	A	12-14	3.9	
B	S						
## 56	25	252	LONG	A	12-14	9.9	
M	S						
## 57	25	255	LONG	A	14-16	7.5	
B	S						

## 58	25	257	LONG	A	16-18	9.0	
B	S						
## 59	25	259	LONG	A	16-18	12.0	
B	S						
## 60	25	260	LONG	A	16-18	10.0	B/
M	S						
## 61	25	263	LONG	A	16-18	3.0	A/
B	S						
## 62	25	264	LONG	A	16-18	2.0	A/
B	S						
## 63	25	265	LONG	A	20-22	6.5	
A	S						
## 64	25	267	LONG	B	36-38	7.0	
M	S						
## 65	25	269	LONG	B	36-38	9.5	
M	S						
## 66	26	270	LONG	A	16-18	18.1	B/
M	S						
## 67	26	272	LONG	A	24-26	13.2	
A	S						
## 68	26	280	LONG	A	36-38	1.1	
A	S						
## 69	26	282	LONG	B	0-2	16.5	
A	S						
## 70	27	287	LONG	A	0-2	20.1	
B	S						
## 71	27	291	LONG	B	0-2	9.0	A/
B	S						
## 72	27	293	LONG	B	0-2	22.4	
A	S						
## 73	27	294	LONG	B	0-2	4.4	
B	S						
## 74	27	296	LONG	B	0-2	5.1	
B	S						
## 75	27	297	LONG	B	32-34	4.6	
A	S						
## 76	27	298	LONG	B	34-36	15.5	
A	S						
## 77	30	307	FISH	B	44-46	35.1	
L	S						
## 78	33	310	CR69	A	42-44	9.5	
M	S						

## 79	34	312	CAM	A	14-16	15.0	
A	S						
## 80	34	320	CAM	A	34-36	4.0	
A	S						
## 81	34	331	CAM	A	44-46	6.1	
A	S						
## 82	34	341	CAM	B	40-42	3.4	
A	S						
## 83	36	350	CAM	A	6-8	28.7	
A	S						
## 84	36	360	CAM	A	42-44	9.9	
B	S						
## 85	36	369	CAM	B	34-36	6.0	
B	S						
## 86	36	370	CAM	B	34-36	6.6	
B	S						
## 87	36	384	CAM	B	36-38	13.3	
A	S						
## 88	36	385	CAM	B	36-38	3.4	
B	S						
## 89	36	386	CAM	B	36-38	3.6	
B	S						
## 90	36	389	CAM	B	40-42	11.5	
A	S						
## 91	36	392	CAM	B	42-44	12.4	
B	S						
## 92	36	395	CAM	B	42-44	10.8	
A	S						
## 93	36	396	CAM	B	42-44	18.2	A/
B	S						
## 94	36	397	CAM	B	42-44	14.6	
B	S						
## 95	36	398	CAM	B	42-44	15.1	A/
B	S						
## 96	36	399	CAM	B	42-44	4.4	
A	S						
## 97	36	401	CAM	B	42-44	3.1	
B	S						
## 98	38	408	CAM	A	4-6	7.9	
B	S						
## 99	38	410	CAM	A	4-6	4.7	
B	S						

## 100	38	411	CAM	A	4-6	17.1	
B	S						
## 101	38	415	CAM	A	10-12	6.3	
B	S						
## 102	38	417	CAM	A	10-12	10.3	
B	S						
## 103	38	418	CAM	A	10-12	5.2	
B	S						
## 104	38	420	CAM	A	12-14	4.6	
B	S						
## 105	38	422	CAM	A	12-14	6.2	
B	S						
## 106	38	433	CAM	A	16-18	10.5	
B	S						
## 107	38	436	CAM	A	16-18	5.3	
B	S						
## 108	38	438	CAM	A	16-18	5.2	
B	S						
## 109	38	439	CAM	A	20-22	45.7	
B	S						
## 110	38	443	CAM	A	20-22	5.2	
B	S						
## 111	38	445	CAM	A	22-24	12.0	
B	S						
## 112	38	446	CAM	A	22-24	9.6	
B	S						
## 113	38	447	CAM	A	22-24	9.4	A/
B	S						
## 114	38	448	CAM	A	22-24	8.3	
A	S						
## 115	38	451	CAM	A	22-24	8.1	A/
B	S						
## 116	38	453	CAM	A	22-24	2.0	A/
B	S						
## 117	38	456	CAM	A	26-28	26.2	
A	S						
## 118	38	460	CAM	A	32-34	8.2	
B	S						
## 119	38	461	CAM	A	32-34	10.6	
B	S						
## 120	38	462	CAM	A	32-34	9.9	
B	S						

## 121	38	464	CAM	A	32-34	3.0	
B	S						
## 122	38	466	CAM	A	32-34	11.4	
B	S						
## 123	38	473	CAM	A	34-36	13.0	
B	S						
## 124	38	475	CAM	A	34-36	12.2	
B	S						
## 125	38	482	CAM	A	36-38	18.4	
B	S						
## 126	38	489	CAM	A	48-50	6.9	
B	S						
## 127	38	491	CAM	B	4-6	6.7	
A	S						
## 128	38	492	CAM	B	4-6	14.7	
B	S						
## 129	38	495	CAM	B	18-20	16.0	
L	S						
## 130	38	496	CAM	B	20-22	8.5	
B	S						
## 131	38	497	CAM	B	20-22	11.5	
B	S						
## 132	38	499	CAM	B	20-22	10.3	
B	S						
## 133	38	502	CAM	B	20-22	10.8	
B	S						
## 134	38	503	CAM	B	20-22	11.7	
B	S						
## 135	38	504	CAM	B	20-22	10.0	
B	S						
## 136	38	507	CAM	B	28-30	8.7	
B	S						
## 137	38	509	CAM	B	28-30	6.9	
B	S						
## 138	38	513	CAM	B	28-30	14.6	A/
B	S						
## 139	38	518	CAM	B	34-36	12.1	
B	S						
## 140	38	521	CAM	B	34-36	23.3	
B	S						
## 141	38	522	CAM	B	34-36	22.8	
B	S						





## 8	S	1	0	51.0	0	1
RAWAH						
## 9	S	0	0	51.0	0	0
RAWAH						
## 10	CC	0	0	51.0	0	0
RAWAH						
## 11	S	1	0	51.0	0	1
RAWAH						
## 12	CC	1	0	51.0	0	0
RAWAH						
## 13	F	1	0	51.0	0	0
RAWAH						
## 14	F	1	0	51.0	0	0
RAWAH						
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RAWAH						
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BLUE						
## 17	S	1	0	51.0	0	0
BLUE						
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BLUE						
## 19	S	1	0	51.0	0	0
BLUE						
## 20	CC	1	1	51.0	0	0
SNOW						
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SNOW						
## 22	CC	1	1	51.0	0	0
SNOW						
## 23	CC	1	1	51.0	0	1
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SNOW						
## 26	CC	0	0	51.0	0	1
SNOW						
## 27	CC	0	0	51.0	0	1
SNOW						
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SNOW						

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SNOW						
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SNOW						
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SNOW						
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SNOW						
## 35	S	0	0	51.0	0	1
SNOW						
## 36	S	0	0	51.0	0	1
SNOW						
## 37	S	0	0	51.0	0	1
SNOW						
## 38	S	1	0	51.0	0	1
SNOW						
## 39	CC	1	0	51.0	0	0
LONG						
## 40	S	1	0	51.0	0	0
MONTY						
## 41	CV	0	0	51.0	0	0
MONTY						
## 42	CC	0	0	51.0	0	0
MONTY						
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MONTY						
## 44	CC	0	0	51.0	0	0
MONTY						
## 45	CV	0	0	51.0	0	0
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MONTY						
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MONTY						
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LONG						

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LONG						
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LONG						
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## 57	CV	0	0	51.0	0	0
LONG						
## 58	CC	1	0	51.0	0	0
LONG						
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LONG						
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LONG						
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LONG						
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LONG						
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LONG						
## 64	F	0	0	51.0	0	0
LONG						
## 65	S	0	0	51.0	0	0
LONG						
## 66	CC	1	1	51.0	0	0
LONG						
## 67	F	0	0	51.0	0	0
LONG						
## 68	CC	0	0	51.0	0	0
LONG						
## 69	S	0	0	51.0	0	0
LONG						
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LONG						

## 71	S	0	0	51.0	0	0
LONG						
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LONG						
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LONG						
## 74	S	1	0	51.0	0	0
LONG						
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LONG						
## 76	CC	1	0	51.0	0	1
LONG						
## 77	S	0	0	51.0	1	0
FISH						
## 78	S	0	0	0.1	0	0
CR69						
## 79	S	1	0	51.0	0	0
CAM						
## 80	S	0	0	51.0	0	0
CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
## 137	CC	0	0	51.0	0	0
CAM						
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CAM						
## 139	S	1	0	51.0	0	0
CAM						
## 140	S	1	0	51.0	0	0
CAM						
## 141	S	1	0	51.0	0	0
CAM						
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CAM						
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CAM						
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CAM						
## 149	S	0	0	51.0	0	0
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CAM						
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CAM						
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CAM						
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CAM						

##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
Elevation	Slope					
## 1		6	39.0	LAKE	427647.0	4493988
2835	-6					
## 2		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 3		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 4		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 5		7	23.0	RAWAH	427082.0	4499706
2710	-7					
## 6		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 7		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 8		7	39.0	RAWAH	427082.0	4499706
2710	-7					
## 9		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 10		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 11		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	60.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	43.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 15		8	9.0	RAWAH	426956.0	4499540
2724	-9					
## 16		11	29.0	BLUE	427118.0	4493949
2901	-10					
## 17		12	28.0	BLUE	427290.0	4493596
2926	-11					
## 18		12	16.0	BLUE	427290.0	4493596
2926	-11					
## 19		12	6.0	BLUE	427290.0	4493596
2926	-11					
## 20		20	39.0	SNOW	426996.6	4492304
2959	-10					



## 21		20	19.0	SNOW	426996.6	4492304
2959	-10					
## 22		20	3.0	SNOW	426996.6	4492304
2959	-10					
## 23		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 24		20	6.0	SNOW	426996.6	4492304
2959	-10					
## 25		20	12.0	SNOW	426996.6	4492304
2959	-10					
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## 27		20	8.0	SNOW	426996.6	4492304
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## 29		20	12.0	SNOW	426996.6	4492304
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2959	-10					
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2959	-10					
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2959	-10					
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2959	-10					
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2959	-10					
## 36		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 37		20	19.5	SNOW	426996.6	4492304
2959	-10					
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2959	-10					
## 39		21	5.0	LONG	429815.3	4490511
3029	-1					
## 40		22	22.5	MONTY	424940.0	4489009
3206	-8					
## 41		23	9.5	MONTY	424655.0	4489019
3259	-13					

## 42		23	1.0	MONTY	424655.0	4489019
3259	-13					
## 43		23	1.2	MONTY	424655.0	4489019
3259	-13					
## 44		23	1.6	MONTY	424655.0	4489019
3259	-13					
## 45		23	5.7	MONTY	424655.0	4489019
3259	-13					
## 46		23	3.3	MONTY	424655.0	4489019
3259	-13					
## 47		23	7.4	MONTY	424655.0	4489019
3259	-13					
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3068	-7					
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3090	-11					
## 73		27	4.4	LONG	430929.0	4490476
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3090	-11					
## 77		30	35.1	FISH	455545.0	4496202
2462	-5					
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2596	-10					
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3106	-9					
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3106	-9					
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3106	-9					
## 82		34	3.4	CAM	434425.0	4485996
3106	-9					
## 83		36	28.7	CAM	434021.0	4485004
3020	-10					

## 84	36	9.9	CAM	434021.0	4485004
3020 -10					
## 85	36	6.0	CAM	434021.0	4485004
3020 -10					
## 86	36	6.6	CAM	434021.0	4485004
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## 87	36	13.3	CAM	434021.0	4485004
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## 89	36	3.6	CAM	434021.0	4485004
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## 91	36	12.4	CAM	434021.0	4485004
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## 92	36	10.8	CAM	434021.0	4485004
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## 94	36	14.6	CAM	434021.0	4485004
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## 95	36	15.1	CAM	434021.0	4485004
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## 96	36	4.4	CAM	434021.0	4485004
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## 97	36	3.1	CAM	434021.0	4485004
3020 -10					
## 98	38	7.9	CAM	434173.0	4486246
3154 -4					
## 99	38	4.7	CAM	434173.0	4486246
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## 100	38	17.1	CAM	434173.0	4486246
3154 -4					
## 101	38	6.3	CAM	434173.0	4486246
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## 102	38	10.3	CAM	434173.0	4486246
3154 -4					
## 103	38	5.2	CAM	434173.0	4486246
3154 -4					
## 104	38	4.6	CAM	434173.0	4486246
3154 -4					

## 105		38	6.2	CAM	434173.0	4486246
3154	-4					
## 106		38	10.5	CAM	434173.0	4486246
3154	-4					
## 107		38	5.3	CAM	434173.0	4486246
3154	-4					
## 108		38	5.2	CAM	434173.0	4486246
3154	-4					
## 109		38	45.7	CAM	434173.0	4486246
3154	-4					
## 110		38	5.2	CAM	434173.0	4486246
3154	-4					
## 111		38	12.0	CAM	434173.0	4486246
3154	-4					
## 112		38	9.6	CAM	434173.0	4486246
3154	-4					
## 113		38	9.4	CAM	434173.0	4486246
3154	-4					
## 114		38	8.3	CAM	434173.0	4486246
3154	-4					
## 115		38	8.1	CAM	434173.0	4486246
3154	-4					
## 116		38	2.0	CAM	434173.0	4486246
3154	-4					
## 117		38	26.2	CAM	434173.0	4486246
3154	-4					
## 118		38	8.2	CAM	434173.0	4486246
3154	-4					
## 119		38	10.6	CAM	434173.0	4486246
3154	-4					
## 120		38	9.9	CAM	434173.0	4486246
3154	-4					
## 121		38	3.0	CAM	434173.0	4486246
3154	-4					
## 122		38	11.4	CAM	434173.0	4486246
3154	-4					
## 123		38	13.0	CAM	434173.0	4486246
3154	-4					
## 124		38	12.2	CAM	434173.0	4486246
3154	-4					
## 125		38	18.4	CAM	434173.0	4486246
3154	-4					

## 126		38	6.9	CAM	434173.0	4486246
3154	-4					
## 127		38	6.7	CAM	434173.0	4486246
3154	-4					
## 128		38	14.7	CAM	434173.0	4486246
3154	-4					
## 129		38	16.0	CAM	434173.0	4486246
3154	-4					
## 130		38	8.5	CAM	434173.0	4486246
3154	-4					
## 131		38	11.5	CAM	434173.0	4486246
3154	-4					
## 132		38	10.3	CAM	434173.0	4486246
3154	-4					
## 133		38	10.8	CAM	434173.0	4486246
3154	-4					
## 134		38	11.7	CAM	434173.0	4486246
3154	-4					
## 135		38	10.0	CAM	434173.0	4486246
3154	-4					
## 136		38	8.7	CAM	434173.0	4486246
3154	-4					
## 137		38	6.9	CAM	434173.0	4486246
3154	-4					
## 138		38	14.6	CAM	434173.0	4486246
3154	-4					
## 139		38	12.1	CAM	434173.0	4486246
3154	-4					
## 140		38	23.3	CAM	434173.0	4486246
3154	-4					
## 141		38	22.8	CAM	434173.0	4486246
3154	-4					
## 142		38	15.0	CAM	434173.0	4486246
3154	-4					
## 143		38	6.5	CAM	434173.0	4486246
3154	-4					
## 144		38	10.3	CAM	434173.0	4486246
3154	-4					
## 145		38	11.8	CAM	434173.0	4486246
3154	-4					
## 146		38	3.5	CAM	434173.0	4486246
3154	-4					

## 147		38	5.4	CAM	434173.0	4486246
3154	-4					
## 148		38	13.6	CAM	434173.0	4486246
3154	-4					
## 149		38	8.0	CAM	434173.0	4486246
3154	-4					
## 150		38	7.6	CAM	434173.0	4486246
3154	-4					
## 151		38	23.2	CAM	434173.0	4486246
3154	-4					
## 152		38	22.5	CAM	434173.0	4486246
3154	-4					
## 153		38	11.6	CAM	434173.0	4486246
3154	-4					
## 154		38	19.0	CAM	434173.0	4486246
3154	-4					
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
Transect.B						
## 1	173		CC			18
108						
## 2	30		F			252
162						
## 3	30		F			252
162						
## 4	30		F			252
162						
## 5	30		F			252
162						
## 6	30		F			252
162						
## 7	30		F			252
162						
## 8	30		F			252
162						
## 9	30		F			252
162						
## 10	30		F			252
162						
## 11	30		F			252
162						
## 12	30		F			252
162						

## 13	30	F	252
162			
## 14	30	F	252
162			
## 15	340	F	60
330			
## 16	92	F	290
20			
## 17	32	F	250
159			
## 18	32	F	250
159			
## 19	32	F	250
159			
## 20	12	CV	228
312			
## 21	12	CV	228
312			
## 22	12	CV	228
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## 24	12	CV	228
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## 25	12	CV	228
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## 26	12	CV	228
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## 27	12	CV	228
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## 28	12	CV	228
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## 29	12	CV	228
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## 30	12	CV	228
312			
## 31	12	CV	228
312			
## 32	12	CV	228
312			
## 33	12	CV	228
312			



## 34	12	CV	228
312			
## 35	12	CV	228
312			
## 36	12	CV	228
312			
## 37	12	CV	228
312			
## 38	12	CV	228
312			
## 39	298	CC	288
210			
## 40	60	CC	60
33			
## 41	194	F/S	46
316			
## 42	194	F/S	46
316			
## 43	194	F/S	46
316			
## 44	194	F/S	46
316			
## 45	194	F/S	46
316			
## 46	194	F/S	46
316			
## 47	194	F/S	46
316			
## 48	130	F	222
310			
## 49	130	F	222
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## 50	130	F	222
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## 51	130	F	222
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## 63	130	F	222
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## 64	130	F	222
310			
## 65	130	F	222
310			
## 66	240	CC	210
120			
## 67	240	CC	210
120			
## 68	240	CC	210
120			
## 69	240	CC	210
120			
## 70	120	S	280
110			
## 71	120	S	280
110			
## 72	120	S	280
110			
## 73	120	S	280
110			
## 74	120	S	280
110			
## 75	120	S	280
110			

## 76	120	S	280
110			
## 77	58	F	146
54			
## 78	294	S	114
200			
## 79	194	F/S	274
180			
## 80	194	F/S	274
180			
## 81	194	F/S	274
180			
## 82	194	F/S	274
180			
## 83	216	F/S	166
74			
## 84	216	F/S	166
74			
## 85	216	F/S	166
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## 86	216	F/S	166
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## 87	216	F/S	166
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## 88	216	F/S	166
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## 89	216	F/S	166
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## 90	216	F/S	166
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## 91	216	F/S	166
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## 92	216	F/S	166
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## 93	216	F/S	166
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## 94	216	F/S	166
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## 95	216	F/S	166
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## 96	216	F/S	166
74			

## 97	216	F/S	166
74			
## 98	190	F/S	56
142			
## 99	190	F/S	56
142			
## 100	190	F/S	56
142			
## 101	190	F/S	56
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## 102	190	F/S	56
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## 103	190	F/S	56
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## 104	190	F/S	56
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## 115	190	F/S	56
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## 117	190	F/S	56
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## 118	190	F/S	56
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## 128	190	F/S	56
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## 129	190	F/S	56
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## 133	190	F/S	56
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## 134	190	F/S	56
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## 135	190	F/S	56
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## 136	190	F/S	56
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## 137	190	F/S	56
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## 138	190	F/S	56
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## 139	190	F/S	56
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## 140	190	F/S	56
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## 147	190	F/S	56
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## 148	190	F/S	56
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## 149	190	F/S	56
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## 150	190	F/S	56
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## 151	190	F/S	56
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## 152	190	F/S	56
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## 153	190	F/S	56
142			
## 154	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	51.00	
## 2	51	25.00	
## 3	51	25.00	
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## 149	51	51.00
## 150	51	51.00
## 151	51	51.00
## 152	51	51.00
## 153	51	51.00
## 154	51	51.00

f

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.
## 1	1	1	ELKHORN	A	8-10
L	F				25.0
## 2	1	2	ELKHORN	A	38-40
M	F				30.0
## 3	1	3	ELKHORN	B	12-14
M	F				25.0
## 4	6	9	LAKE	A	14-16
A	F				15.0
## 5	6	11	LAKE	A	14-16
A	F				3.5

## 6	6	13	LAKE	A	16-18	18.0	
M	F						
## 7	7	15	RAWAH	A	0-2	26.0	B/
M	F						
## 8	7	16	RAWAH	A	0-2	30.0	B/
M	F						
## 9	7	17	RAWAH	A	0-2	21.0	B/
M	F						
## 10	7	28	RAWAH	A	16-18	21.0	A/
M	F						
## 11	7	29	RAWAH	B	14-16	22.0	
A	F						
## 12	7	30	RAWAH	B	14-16	19.0	
A	F						
## 13	7	31	RAWAH	B	14-16	26.0	
A	F						
## 14	7	32	RAWAH	B	14-16	24.0	
A	F						
## 15	7	36	RAWAH	B	30-32	21.0	B/
M	F						
## 16	7	37	RAWAH	B	30-32	31.0	B/
M	F						
## 17	7	38	RAWAH	B	30-32	35.0	B/
M	F						
## 18	7	39	RAWAH	B	30-32	31.0	B/
M	F						
## 19	7	44	RAWAH	B	36-38	14.0	
A	F						
## 20	7	45	RAWAH	B	36-38	20.0	
A	F						
## 21	7	46	RAWAH	B	38-40	26.0	
M	F						
## 22	7	47	RAWAH	B	38-40	30.0	
M	F						
## 23	7	48	RAWAH	B	38-40	54.0	
M	F						
## 24	7	50	RAWAH	B	42-44	37.0	B/
M	F						
## 25	7	67	RAWAH	B	42-44	16.0	
M	F						
## 26	7	68	RAWAH	B	42-44	25.0	
W	F						

## 27	7	69	RAWAH	B	42-44	25.0	
M	F						
## 28	7	70	RAWAH	B	42-44	17.0	
M	F						
## 29	7	71	RAWAH	B	42-44	26.0	
M	F						
## 30	7	75	RAWAH	B	42-44	40.0	
M	F						
## 31	7	79	RAWAH	B	44-46	51.0	
M	F						
## 32	7	80	RAWAH	B	46-48	26.0	
M	F						
## 33	7	81	RAWAH	B	46-48	29.0	
M	F						
## 34	7	87	RAWAH	B	46-48	34.0	
B	F						
## 35	8	92	RAWAH	A	40-42	24.0	
L	F						
## 36	8	93	RAWAH	B	40-42	9.0	
A	F						
## 37	20	112	SNOW	A	2-4	10.0	A/
B	F						
## 38	20	114	SNOW	A	2-4	12.0	A/
B	F						
## 39	20	115	SNOW	A	2-4	18.0	A/
B	F						
## 40	20	116	SNOW	A	2-4	15.5	A/
B	F						
## 41	20	131	SNOW	A	8-10	22.0	
A	F						
## 42	20	133	SNOW	B	10-12	7.0	A/
B	F						
## 43	20	135	SNOW	B	12-14	27.5	
B	F						
## 44	20	136	SNOW	B	12-14	12.0	B/
M	F						
## 45	20	137	SNOW	B	14-16	17.0	L/
M	F						
## 46	20	139	SNOW	B	16-18	17.0	
A	F						
## 47	20	140	SNOW	B	16-18	6.5	
A	F						

## 48	20	141	SNOW	B	16-18	4.0	
A	F						
## 49	21	170	LONG	A	42-44	21.5	A/
L	F						
## 50	23	186	MONTY	A	34-36	8.0	A/
L	F						
## 51	23	202	MONTY	A	36-38	2.1	
A	F						
## 52	24	207	MONTY	A	22-24	4.8	
A	F						
## 53	25	209	LONG	A	0-2	4.2	
A	F						
## 54	25	210	LONG	A	2-4	4.5	
L	F						
## 55	25	218	LONG	A	6-8	1.5	
B	F						
## 56	25	219	LONG	A	6-8	3.9	
B	F						
## 57	25	220	LONG	A	6-8	5.5	
B	F						
## 58	25	221	LONG	A	6-8	2.6	
B	F						
## 59	25	239	LONG	A	10-12	7.0	B/
M	F						
## 60	25	240	LONG	A	12-14	11.0	B/
M	F						
## 61	25	245	LONG	A	12-14	15.6	
B	F						
## 62	25	253	LONG	A	14-16	3.5	
A	F						
## 63	25	254	LONG	A	14-16	2.9	
A	F						
## 64	25	256	LONG	A	16-18	8.8	
M	F						
## 65	25	258	LONG	A	16-18	6.5	
B	F						
## 66	25	266	LONG	A	24-26	4.0	
M	F						
## 67	25	268	LONG	B	36-38	4.0	A/
L	F						
## 68	26	273	LONG	A	26-28	4.7	
A	F						

## 69	26	275	LONG	A	26-28	15.9	
A	F						
## 70	26	276	LONG	A	26-28	7.1	
A	F						
## 71	26	277	LONG	A	30-32	9.4	A/
L	F						
## 72	26	278	LONG	A	36-38	1.6	
A	F						
## 73	26	279	LONG	A	36-38	15.3	
A	F						
## 74	26	281	LONG	A	40-42	7.4	
A	F						
## 75	27	286	LONG	A	0-2	5.5	A/
B	F						
## 76	27	288	LONG	A	0-2	5.6	
A	F						
## 77	27	289	LONG	A	0-2	6.5	
A	F						
## 78	27	290	LONG	B	0-2	19.8	
A	F						
## 79	27	299	LONG	B	34-36	2.0	
A	F						
## 80	27	300	LONG	B	34-36	1.0	
A	F						
## 81	27	301	LONG	B	34-36	0.5	
A	F						
## 82	28	302	FISH	A	24-26	15.0	
M	F						
## 83	28	303	FISH	B	16-18	20.0	
A	F						
## 84	30	306	FISH	A	34-36	16.0	
L	F						
## 85	33	311	CR69	B	38-40	25.9	
M	F						
## 86	34	329	CAM	A	42-44	1.5	
A	F						
## 87	34	333	CAM	A	48-50	58.4	
A	F						
## 88	34	335	CAM	B	2-4	11.1	
A	F						
## 89	34	336	CAM	B	10-12	2.8	
A	F						

## 90	35	344	CAM	B	4-6	4.6	
A	F						
## 91	35	348	CAM	B	20-22	9.7	
A	F						
## 92	35	349	CAM	B	48-50	3.5	B/
M	F						
## 93	36	351	CAM	A	8-10	9.9	
A	F						
## 94	36	354	CAM	A	30-32	4.9	
A	F						
## 95	36	356	CAM	A	34-36	1.1	
A	F						
## 96	36	377	CAM	B	36-38	30.3	A/
B	F						
## 97	36	379	CAM	B	36-38	21.7	
B	F						
## 98	36	381	CAM	B	36-38	9.6	
A	F						
## 99	36	382	CAM	B	36-38	7.9	
B	F						
## 100	36	383	CAM	B	36-38	5.5	
B	F						
## 101	38	404	CAM	A	0-2	3.2	
B	F						
## 102	38	409	CAM	A	4-6	4.5	
B	F						
## 103	38	416	CAM	A	10-12	11.7	A/
B	F						
## 104	38	425	CAM	A	12-14	7.5	A/
B	F						
## 105	38	426	CAM	A	12-14	4.4	
B	F						
## 106	38	435	CAM	A	16-18	8.1	
B	F						
## 107	38	437	CAM	A	16-18	5.1	
B	F						
## 108	38	440	CAM	A	20-22	14.6	
B	F						
## 109	38	458	CAM	A	32-34	10.4	
B	F						
## 110	38	463	CAM	A	32-34	2.2	
B	F						

## 111	38	469	CAM	A	34-36	15.0	
B	F						
## 112	38	471	CAM	A	34-36	2.9	
B	F						
## 113	38	476	CAM	A	34-36	11.5	
B	F						
## 114	38	477	CAM	A	34-36	12.8	
B	F						
## 115	38	478	CAM	A	34-36	17.6	
B	F						
## 116	38	479	CAM	A	34-36	8.3	
B	F						
## 117	38	480	CAM	A	34-36	3.8	
B	F						
## 118	38	484	CAM	A	48-50	6.2	
B	F						
## 119	38	485	CAM	A	48-50	9.5	
B	F						
## 120	38	486	CAM	A	48-50	3.2	
B	F						
## 121	38	490	CAM	B	4-6	10.4	
A	F						
## 122	38	498	CAM	B	20-22	7.9	
B	F						
## 123	38	500	CAM	B	20-22	10.5	
B	F						
## 124	38	505	CAM	B	22-24	9.5	
A	F						
## 125	38	506	CAM	B	22-24	2.9	
B	F						
## 126	38	508	CAM	B	28-30	19.7	
B	F						
## 127	38	510	CAM	B	28-30	1.2	
B	F						
## 128	38	511	CAM	B	30-32	1.0	
B	F						
## 129	38	512	CAM	B	30-32	0.5	
B	F						
## 130	38	514	CAM	B	30-32	4.4	A/
B	F						
## 131	38	515	CAM	B	30-32	1.5	
B	F						



## 132	38	520	CAM	B	34-36	6.8
B	F					
## 133	38	524	CAM	B	34-36	13.9
B	F					
## 134	38	525	CAM	B	36-38	7.1
B	F					
## 135	38	526	CAM	B	36-38	6.9
B	F					
## 136	38	534	CAM	B	40-42	10.9
B	F					
## 137	38	535	CAM	B	40-42	8.8
B	F					
## 138	38	536	CAM	B	40-42	9.0
B	F					
## 139	38	538	CAM	B	40-42	5.0
B	F					
## 140	38	539	CAM	B	40-42	8.2
B	F					
## 141	38	540	CAM	B	40-42	3.1
B	F					
## 142	38	542	CAM	B	42-44	2.5
B	F					
## 143	38	544	CAM	B	42-44	4.9
B	F					
## 144	38	546	CAM	B	42-44	2.5
B	F					
## 145	38	547	CAM	B	42-44	9.4
B	F					
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse
site.name						
## 1	CC	0	0	1.25	0	0
ELKHORN						
## 2	F	0	0	1.30	0	0
ELKHORN						
## 3	F	0	0	0.90	0	0
ELKHORN						
## 4	F	1	0	51.00	0	1
LAKE						
## 5	F	1	0	51.00	0	0
LAKE						
## 6	F	0	0	51.00	0	0
LAKE						

## 7	S	0	0	51.00	0	0
RAWAH						
## 8	S	0	0	51.00	0	0
RAWAH						
## 9	S	0	0	51.00	0	0
RAWAH						
## 10	F	1	0	51.00	0	0
RAWAH						
## 11	F	0	0	51.00	0	1
RAWAH						
## 12	F	0	0	51.00	0	1
RAWAH						
## 13	F	0	0	51.00	0	0
RAWAH						
## 14	F	0	1	51.00	0	0
RAWAH						
## 15	CC	0	0	51.00	0	0
RAWAH						
## 16	CC	0	0	51.00	0	0
RAWAH						
## 17	CC	0	0	51.00	0	0
RAWAH						
## 18	CC	0	0	51.00	0	0
RAWAH						
## 19	F	1	0	51.00	0	0
RAWAH						
## 20	F	1	0	51.00	0	1
RAWAH						
## 21	F	1	0	51.00	0	0
RAWAH						
## 22	F	0	0	51.00	0	0
RAWAH						
## 23	F	0	0	51.00	0	0
RAWAH						
## 24	CC	0	1	51.00	0	0
RAWAH						
## 25	CC	0	0	51.00	0	0
RAWAH						
## 26	F	1	0	51.00	0	0
RAWAH						
## 27	F	0	0	51.00	0	0
RAWAH						

## 28	F	0	0	51.00	0	0
RAWAH						
## 29	CC	0	0	51.00	0	1
RAWAH						
## 30	F	0	0	51.00	0	0
RAWAH						
## 31	F	0	0	51.00	0	0
RAWAH						
## 32	CC	1	0	51.00	0	0
RAWAH						
## 33	F	0	0	51.00	0	1
RAWAH						
## 34	F	0	0	51.00	0	0
RAWAH						
## 35	S	1	1	51.00	0	0
RAWAH						
## 36	S	1	0	51.00	0	0
RAWAH						
## 37	CC	1	1	51.00	0	1
SNOW						
## 38	CC	1	1	51.00	0	1
SNOW						
## 39	CC	1	1	51.00	0	1
SNOW						
## 40	CC	1	0	51.00	0	1
SNOW						
## 41	CC	0	0	51.00	0	0
SNOW						
## 42	CC	1	1	51.00	0	0
SNOW						
## 43	CC	1	0	51.00	0	0
SNOW						
## 44	CC	1	1	51.00	0	1
SNOW						
## 45	F	0	0	51.00	0	0
SNOW						
## 46	S	1	1	51.00	0	0
SNOW						
## 47	CC	1	0	51.00	0	0
SNOW						
## 48	CC	1	0	51.00	0	0
SNOW						

## 49	CC	0	1	51.00	0	1
LONG						
## 50	CC	0	0	51.00	0	0
MONTY						
## 51	CC	1	0	51.00	0	0
MONTY						
## 52	CC	1	1	51.00	0	1
MONTY						
## 53	F	1	0	51.00	0	1
LONG						
## 54	F	0	0	51.00	0	0
LONG						
## 55	F	0	0	51.00	0	0
LONG						
## 56	CC	1	0	51.00	0	0
LONG						
## 57	CC	1	0	51.00	0	0
LONG						
## 58	CC	1	0	51.00	0	0
LONG						
## 59	CC	0	0	51.00	0	0
LONG						
## 60	CC	1	0	51.00	0	0
LONG						
## 61	CC	0	0	51.00	0	0
LONG						
## 62	F	1	0	51.00	0	1
LONG						
## 63	S	0	0	51.00	0	1
LONG						
## 64	CC	1	0	51.00	0	1
LONG						
## 65	CC	1	0	51.00	0	0
LONG						
## 66	F	0	0	51.00	0	1
LONG						
## 67	S	0	0	51.00	0	0
LONG						
## 68	F	0	0	51.00	0	1
LONG						
## 69	CV	0	0	51.00	0	0
LONG						

## 70	CC	0	0	51.00	0	0
LONG						
## 71	F	1	0	51.00	0	1
LONG						
## 72	CC	0	0	51.00	0	0
LONG						
## 73	CC	1	0	51.00	0	1
LONG						
## 74	CC	0	0	51.00	0	1
LONG						
## 75	CC	0	0	51.00	0	0
LONG						
## 76	F	0	0	51.00	0	1
LONG						
## 77	F	0	0	51.00	0	0
LONG						
## 78	CC	1	1	51.00	0	0
LONG						
## 79	F	1	0	51.00	0	0
LONG						
## 80	F	1	0	51.00	0	0
LONG						
## 81	S	1	0	51.00	0	0
LONG						
## 82	F	0	0	7.00	0	0
FISH						
## 83	CC	0	0	12.00	0	0
FISH						
## 84	F	1	0	51.00	0	1
FISH						
## 85	S	0	0	0.60	0	0
CR69						
## 86	CC	1	0	51.00	0	0
CAM						
## 87	CC	0	1	51.00	0	0
CAM						
## 88	S	1	0	51.00	0	0
CAM						
## 89	S	0	0	51.00	0	0
CAM						
## 90	CC	0	1	51.00	0	0
CAM						

## 91	CC	1	0	51.00	0	0
CAM						
## 92	CC	1	1	51.00	0	0
CAM						
## 93	S	1	0	51.00	0	0
CAM						
## 94	CV	1	1	51.00	0	0
CAM						
## 95	CC	0	0	51.00	0	0
CAM						
## 96	F	1	0	51.00	0	0
CAM						
## 97	F	0	0	51.00	0	0
CAM						
## 98	F	0	0	51.00	0	0
CAM						
## 99	CC	1	0	51.00	0	0
CAM						
## 100	CC	1	0	51.00	0	0
CAM						
## 101	CC	0	0	51.00	0	0
CAM						
## 102	CC	0	0	51.00	0	0
CAM						
## 103	CV	0	0	51.00	0	0
CAM						
## 104	CC	0	0	51.00	0	0
CAM						
## 105	S	0	0	51.00	0	0
CAM						
## 106	CC	0	0	51.00	0	0
CAM						
## 107	F	1	0	51.00	0	1
CAM						
## 108	CC	0	0	51.00	0	0
CAM						
## 109	CC	1	0	51.00	0	0
CAM						
## 110	CC	1	1	51.00	0	0
CAM						
## 111	S	1	1	51.00	0	0
CAM						

## 112	F	1	0	51.00	0	0
CAM						
## 113	F	0	0	51.00	0	0
CAM						
## 114	F	0	0	51.00	0	0
CAM						
## 115	F	0	0	51.00	0	0
CAM						
## 116	F	1	0	51.00	0	1
CAM						
## 117	F	1	0	51.00	0	0
CAM						
## 118	F	0	0	51.00	0	0
CAM						
## 119	F	0	0	51.00	0	0
CAM						
## 120	F	0	0	51.00	0	0
CAM						
## 121	S	1	0	51.00	0	0
CAM						
## 122	F	1	0	51.00	0	0
CAM						
## 123	CC	1	0	51.00	0	0
CAM						
## 124	CC	1	0	51.00	0	0
CAM						
## 125	F	1	0	51.00	0	0
CAM						
## 126	S	0	0	51.00	0	0
CAM						
## 127	F	1	0	51.00	0	0
CAM						
## 128	F	1	0	51.00	0	0
CAM						
## 129	F	1	0	51.00	0	0
CAM						
## 130	F	1	1	51.00	0	0
CAM						
## 131	F	1	1	51.00	0	0
CAM						
## 132	CC	0	0	51.00	0	0
CAM						

## 133	S	1	0	51.00	0	0
CAM						
## 134	CC	0	0	51.00	0	0
CAM						
## 135	CC	0	0	51.00	0	0
CAM						
## 136	CC	0	0	51.00	0	0
CAM						
## 137	CV	0	0	51.00	0	1
CAM						
## 138	CV	0	0	51.00	0	0
CAM						
## 139	S	1	0	51.00	0	0
CAM						
## 140	S	1	0	51.00	0	0
CAM						
## 141	S	1	0	51.00	0	0
CAM						
## 142	S	0	0	51.00	0	0
CAM						
## 143	F	0	0	51.00	0	0
CAM						
## 144	S	0	0	51.00	0	0
CAM						
## 145	S	0	0	51.00	0	0
CAM						

##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing
----	-------------	--------	---------	-------------------	--------------

## 1	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 2	1	30.0	ELKHORN	447029.0	4510687
2712	4				
## 3	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 4	6	15.0	LAKE	427647.0	4493988
2835	-6				
## 5	6	3.5	LAKE	427647.0	4493988
2835	-6				
## 6	6	18.0	LAKE	427647.0	4493988
2835	-6				
## 7	7	26.0	RAWAH	427082.0	4499706
2710	-7				



## 8		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 9		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 10		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 11		7	22.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	24.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 18		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 19		7	14.0	RAWAH	427082.0	4499706
2710	-7					
## 20		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	54.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	37.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 27		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 28		7	17.0	RAWAH	427082.0	4499706
2710	-7					

## 29		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 30		7	40.0	RAWAH	427082.0	4499706
2710	-7					
## 31		7	51.0	RAWAH	427082.0	4499706
2710	-7					
## 32		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 33		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 34		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 35		8	24.0	RAWAH	426956.0	4499540
2724	-9					
## 36		8	9.0	RAWAH	426956.0	4499540
2724	-9					
## 37		20	10.0	SNOW	426996.6	4492304
2959	-10					
## 38		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 39		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 40		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 41		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 42		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 43		20	27.5	SNOW	426996.6	4492304
2959	-10					
## 44		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 45		20	17.0	SNOW	426996.6	4492304
2959	-10					
## 46		20	17.0	SNOW	426996.6	4492304
2959	-10					
## 47		20	6.5	SNOW	426996.6	4492304
2959	-10					
## 48		20	4.0	SNOW	426996.6	4492304
2959	-10					
## 49		21	21.5	LONG	429815.3	4490511
3029	-1					

## 50		23	8.0	MONTY	424655.0	4489019
3259	-13					
## 51		23	2.1	MONTY	424655.0	4489019
3259	-13					
## 52		24	4.8	MONTY	424640.0	4488778
3199	-12					
## 53		25	4.2	LONG	431465.0	4490417
3068	-7					
## 54		25	4.5	LONG	431465.0	4490417
3068	-7					
## 55		25	1.5	LONG	431465.0	4490417
3068	-7					
## 56		25	3.9	LONG	431465.0	4490417
3068	-7					
## 57		25	5.5	LONG	431465.0	4490417
3068	-7					
## 58		25	2.6	LONG	431465.0	4490417
3068	-7					
## 59		25	7.0	LONG	431465.0	4490417
3068	-7					
## 60		25	11.0	LONG	431465.0	4490417
3068	-7					
## 61		25	15.6	LONG	431465.0	4490417
3068	-7					
## 62		25	3.5	LONG	431465.0	4490417
3068	-7					
## 63		25	2.9	LONG	431465.0	4490417
3068	-7					
## 64		25	8.8	LONG	431465.0	4490417
3068	-7					
## 65		25	6.5	LONG	431465.0	4490417
3068	-7					
## 66		25	4.0	LONG	431465.0	4490417
3068	-7					
## 67		25	4.0	LONG	431465.0	4490417
3068	-7					
## 68		26	4.7	LONG	431200.0	4490450
3099	-48					
## 69		26	15.9	LONG	431200.0	4490450
3099	-48					
## 70		26	7.1	LONG	431200.0	4490450
3099	-48					

## 71		26	9.4	LONG	431200.0	4490450
3099	-48					
## 72		26	1.6	LONG	431200.0	4490450
3099	-48					
## 73		26	15.3	LONG	431200.0	4490450
3099	-48					
## 74		26	7.4	LONG	431200.0	4490450
3099	-48					
## 75		27	5.5	LONG	430929.0	4490476
3090	-11					
## 76		27	5.6	LONG	430929.0	4490476
3090	-11					
## 77		27	6.5	LONG	430929.0	4490476
3090	-11					
## 78		27	19.8	LONG	430929.0	4490476
3090	-11					
## 79		27	2.0	LONG	430929.0	4490476
3090	-11					
## 80		27	1.0	LONG	430929.0	4490476
3090	-11					
## 81		27	0.5	LONG	430929.0	4490476
3090	-11					
## 82		28	15.0	FISH	454709.0	4496418
2571	-5					
## 83		28	20.0	FISH	454709.0	4496418
2571	-5					
## 84		30	16.0	FISH	455545.0	4496202
2462	-5					
## 85		33	25.9	CR69	451026.0	4505247
2596	-10					
## 86		34	1.5	CAM	434425.0	4485996
3106	-9					
## 87		34	58.4	CAM	434425.0	4485996
3106	-9					
## 88		34	11.1	CAM	434425.0	4485996
3106	-9					
## 89		34	2.8	CAM	434425.0	4485996
3106	-9					
## 90		35	4.6	CAM	434642.0	4485999
3093	-5					
## 91		35	9.7	CAM	434642.0	4485999
3093	-5					

## 92		35	3.5	CAM	434642.0	4485999
3093	-5					
## 93		36	9.9	CAM	434021.0	4485004
3020	-10					
## 94		36	4.9	CAM	434021.0	4485004
3020	-10					
## 95		36	1.1	CAM	434021.0	4485004
3020	-10					
## 96		36	30.3	CAM	434021.0	4485004
3020	-10					
## 97		36	21.7	CAM	434021.0	4485004
3020	-10					
## 98		36	9.6	CAM	434021.0	4485004
3020	-10					
## 99		36	7.9	CAM	434021.0	4485004
3020	-10					
## 100		36	5.5	CAM	434021.0	4485004
3020	-10					
## 101		38	3.2	CAM	434173.0	4486246
3154	-4					
## 102		38	4.5	CAM	434173.0	4486246
3154	-4					
## 103		38	11.7	CAM	434173.0	4486246
3154	-4					
## 104		38	7.5	CAM	434173.0	4486246
3154	-4					
## 105		38	4.4	CAM	434173.0	4486246
3154	-4					
## 106		38	8.1	CAM	434173.0	4486246
3154	-4					
## 107		38	5.1	CAM	434173.0	4486246
3154	-4					
## 108		38	14.6	CAM	434173.0	4486246
3154	-4					
## 109		38	10.4	CAM	434173.0	4486246
3154	-4					
## 110		38	2.2	CAM	434173.0	4486246
3154	-4					
## 111		38	15.0	CAM	434173.0	4486246
3154	-4					
## 112		38	2.9	CAM	434173.0	4486246
3154	-4					

## 113		38	11.5	CAM	434173.0	4486246
3154	-4					
## 114		38	12.8	CAM	434173.0	4486246
3154	-4					
## 115		38	17.6	CAM	434173.0	4486246
3154	-4					
## 116		38	8.3	CAM	434173.0	4486246
3154	-4					
## 117		38	3.8	CAM	434173.0	4486246
3154	-4					
## 118		38	6.2	CAM	434173.0	4486246
3154	-4					
## 119		38	9.5	CAM	434173.0	4486246
3154	-4					
## 120		38	3.2	CAM	434173.0	4486246
3154	-4					
## 121		38	10.4	CAM	434173.0	4486246
3154	-4					
## 122		38	7.9	CAM	434173.0	4486246
3154	-4					
## 123		38	10.5	CAM	434173.0	4486246
3154	-4					
## 124		38	9.5	CAM	434173.0	4486246
3154	-4					
## 125		38	2.9	CAM	434173.0	4486246
3154	-4					
## 126		38	19.7	CAM	434173.0	4486246
3154	-4					
## 127		38	1.2	CAM	434173.0	4486246
3154	-4					
## 128		38	1.0	CAM	434173.0	4486246
3154	-4					
## 129		38	0.5	CAM	434173.0	4486246
3154	-4					
## 130		38	4.4	CAM	434173.0	4486246
3154	-4					
## 131		38	1.5	CAM	434173.0	4486246
3154	-4					
## 132		38	6.8	CAM	434173.0	4486246
3154	-4					
## 133		38	13.9	CAM	434173.0	4486246
3154	-4					

## 134		38	7.1	CAM	434173.0	4486246
3154	-4					
## 135		38	6.9	CAM	434173.0	4486246
3154	-4					
## 136		38	10.9	CAM	434173.0	4486246
3154	-4					
## 137		38	8.8	CAM	434173.0	4486246
3154	-4					
## 138		38	9.0	CAM	434173.0	4486246
3154	-4					
## 139		38	5.0	CAM	434173.0	4486246
3154	-4					
## 140		38	8.2	CAM	434173.0	4486246
3154	-4					
## 141		38	3.1	CAM	434173.0	4486246
3154	-4					
## 142		38	2.5	CAM	434173.0	4486246
3154	-4					
## 143		38	4.9	CAM	434173.0	4486246
3154	-4					
## 144		38	2.5	CAM	434173.0	4486246
3154	-4					
## 145		38	9.4	CAM	434173.0	4486246
3154	-4					

##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.
## 1	88	CC	NA
NA			
## 2	88	CC	NA
NA			
## 3	88	CC	NA
NA			
## 4	173	CC	18
108			
## 5	173	CC	18
108			
## 6	173	CC	18
108			
## 7	30	F	252
162			
## 8	30	F	252
162			

## 9	30	F	252
162			
## 10	30	F	252
162			
## 11	30	F	252
162			
## 12	30	F	252
162			
## 13	30	F	252
162			
## 14	30	F	252
162			
## 15	30	F	252
162			
## 16	30	F	252
162			
## 17	30	F	252
162			
## 18	30	F	252
162			
## 19	30	F	252
162			
## 20	30	F	252
162			
## 21	30	F	252
162			
## 22	30	F	252
162			
## 23	30	F	252
162			
## 24	30	F	252
162			
## 25	30	F	252
162			
## 26	30	F	252
162			
## 27	30	F	252
162			
## 28	30	F	252
162			
## 29	30	F	252
162			



## 30	30	F	252
162			
## 31	30	F	252
162			
## 32	30	F	252
162			
## 33	30	F	252
162			
## 34	30	F	252
162			
## 35	340	F	60
330			
## 36	340	F	60
330			
## 37	12	CV	228
312			
## 38	12	CV	228
312			
## 39	12	CV	228
312			
## 40	12	CV	228
312			
## 41	12	CV	228
312			
## 42	12	CV	228
312			
## 43	12	CV	228
312			
## 44	12	CV	228
312			
## 45	12	CV	228
312			
## 46	12	CV	228
312			
## 47	12	CV	228
312			
## 48	12	CV	228
312			
## 49	298	CC	288
210			
## 50	194	F/S	46
316			

## 51	194	F/S	46
316			
## 52	160	F/S	184
90			
## 53	130	F	222
310			
## 54	130	F	222
310			
## 55	130	F	222
310			
## 56	130	F	222
310			
## 57	130	F	222
310			
## 58	130	F	222
310			
## 59	130	F	222
310			
## 60	130	F	222
310			
## 61	130	F	222
310			
## 62	130	F	222
310			
## 63	130	F	222
310			
## 64	130	F	222
310			
## 65	130	F	222
310			
## 66	130	F	222
310			
## 67	130	F	222
310			
## 68	240	CC	210
120			
## 69	240	CC	210
120			
## 70	240	CC	210
120			
## 71	240	CC	210
120			

## 72	240	CC	210
120			
## 73	240	CC	210
120			
## 74	240	CC	210
120			
## 75	120	S	280
110			
## 76	120	S	280
110			
## 77	120	S	280
110			
## 78	120	S	280
110			
## 79	120	S	280
110			
## 80	120	S	280
110			
## 81	120	S	280
110			
## 82	286	CC	106
190			
## 83	286	CC	106
190			
## 84	58	F	146
54			
## 85	294	S	114
200			
## 86	194	F/S	274
180			
## 87	194	F/S	274
180			
## 88	194	F/S	274
180			
## 89	194	F/S	274
180			
## 90	90	CC	72
164			
## 91	90	CC	72
164			
## 92	90	CC	72
164			

## 93	216	F/S	166
74			
## 94	216	F/S	166
74			
## 95	216	F/S	166
74			
## 96	216	F/S	166
74			
## 97	216	F/S	166
74			
## 98	216	F/S	166
74			
## 99	216	F/S	166
74			
## 100	216	F/S	166
74			
## 101	190	F/S	56
142			
## 102	190	F/S	56
142			
## 103	190	F/S	56
142			
## 104	190	F/S	56
142			
## 105	190	F/S	56
142			
## 106	190	F/S	56
142			
## 107	190	F/S	56
142			
## 108	190	F/S	56
142			
## 109	190	F/S	56
142			
## 110	190	F/S	56
142			
## 111	190	F/S	56
142			
## 112	190	F/S	56
142			
## 113	190	F/S	56
142			

## 114	190	F/S	56
142			
## 115	190	F/S	56
142			
## 116	190	F/S	56
142			
## 117	190	F/S	56
142			
## 118	190	F/S	56
142			
## 119	190	F/S	56
142			
## 120	190	F/S	56
142			
## 121	190	F/S	56
142			
## 122	190	F/S	56
142			
## 123	190	F/S	56
142			
## 124	190	F/S	56
142			
## 125	190	F/S	56
142			
## 126	190	F/S	56
142			
## 127	190	F/S	56
142			
## 128	190	F/S	56
142			
## 129	190	F/S	56
142			
## 130	190	F/S	56
142			
## 131	190	F/S	56
142			
## 132	190	F/S	56
142			
## 133	190	F/S	56
142			
## 134	190	F/S	56
142			

## 135	190	F/S	56
142			
## 136	190	F/S	56
142			
## 137	190	F/S	56
142			
## 138	190	F/S	56
142			
## 139	190	F/S	56
142			
## 140	190	F/S	56
142			
## 141	190	F/S	56
142			
## 142	190	F/S	56
142			
## 143	190	F/S	56
142			
## 144	190	F/S	56
142			
## 145	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	7.00	
## 2	51	7.00	
## 3	51	7.00	
## 4	51	51.00	
## 5	51	51.00	
## 6	51	51.00	
## 7	51	25.00	
## 8	51	25.00	
## 9	51	25.00	
## 10	51	25.00	
## 11	51	25.00	
## 12	51	25.00	
## 13	51	25.00	
## 14	51	25.00	
## 15	51	25.00	
## 16	51	25.00	
## 17	51	25.00	
## 18	51	25.00	

## 19	51	25.00
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## 25	51	25.00
## 26	51	25.00
## 27	51	25.00
## 28	51	25.00
## 29	51	25.00
## 30	51	25.00
## 31	51	25.00
## 32	51	25.00
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## 34	51	25.00
## 35	51	51.00
## 36	51	51.00
## 37	51	51.00
## 38	51	51.00
## 39	51	51.00
## 40	51	51.00
## 41	51	51.00
## 42	51	51.00
## 43	51	51.00
## 44	51	51.00
## 45	51	51.00
## 46	51	51.00
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## 48	51	51.00
## 49	65	51.00
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## 67	51	51.00
## 68	51	51.00
## 69	51	51.00
## 70	51	51.00
## 71	51	51.00
## 72	51	51.00
## 73	51	51.00
## 74	51	51.00
## 75	51	51.00
## 76	51	51.00
## 77	51	51.00
## 78	51	51.00
## 79	51	51.00
## 80	51	51.00
## 81	51	51.00
## 82	51	5.40
## 83	51	5.40
## 84	51	51.00
## 85	51	9.95
## 86	51	51.00
## 87	51	51.00
## 88	51	51.00
## 89	51	51.00
## 90	51	51.00
## 91	51	51.00
## 92	51	51.00
## 93	51	51.00
## 94	51	51.00
## 95	51	51.00
## 96	51	51.00
## 97	51	51.00
## 98	51	51.00



## 99	51	51.00
## 100	51	51.00
## 101	51	51.00
## 102	51	51.00
## 103	51	51.00
## 104	51	51.00
## 105	51	51.00
## 106	51	51.00
## 107	51	51.00
## 108	51	51.00
## 109	51	51.00
## 110	51	51.00
## 111	51	51.00
## 112	51	51.00
## 113	51	51.00
## 114	51	51.00
## 115	51	51.00
## 116	51	51.00
## 117	51	51.00
## 118	51	51.00
## 119	51	51.00
## 120	51	51.00
## 121	51	51.00
## 122	51	51.00
## 123	51	51.00
## 124	51	51.00
## 125	51	51.00
## 126	51	51.00
## 127	51	51.00
## 128	51	51.00
## 129	51	51.00
## 130	51	51.00
## 131	51	51.00
## 132	51	51.00
## 133	51	51.00
## 134	51	51.00
## 135	51	51.00
## 136	51	51.00
## 137	51	51.00
## 138	51	51.00

## 139	51	51.00
## 140	51	51.00
## 141	51	51.00
## 142	51	51.00
## 143	51	51.00
## 144	51	51.00
## 145	51	51.00

CC

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.	
Substrate	Small.Topo					
## 1	1	1	ELKHORN	A	8-10	25.0
L	F					
## 2	5	7	LAKE	A	14-16	20.5
M	CC					
## 3	7	19	RAWAH	A	0-2	31.0 B/
M	S					
## 4	7	23	RAWAH	A	0-2	28.0 B/
M	CC					
## 5	7	24	RAWAH	A	0-2	28.0 B/
M	CC					
## 6	7	25	RAWAH	A	0-2	44.0 B/
M	CC					
## 7	7	26	RAWAH	A	0-2	15.0
M	CC					
## 8	7	27	RAWAH	A	0-2	42.0
M	CC					
## 9	7	33	RAWAH	B	16-18	19.0
A	CC					
## 10	7	34	RAWAH	B	16-18	18.0
A	CC					
## 11	7	35	RAWAH	B	16-18	11.0
A	CC					
## 12	7	36	RAWAH	B	30-32	21.0 B/
M	F					
## 13	7	37	RAWAH	B	30-32	31.0 B/
M	F					
## 14	7	38	RAWAH	B	30-32	35.0 B/
M	F					
## 15	7	39	RAWAH	B	30-32	31.0 B/
M	F					

## 16	7	50	RAWAH	B	42-44	37.0	B/
M	F						
## 17	7	51	RAWAH	B	42-44	29.0	
M	CC						
## 18	7	52	RAWAH	B	42-44	18.0	B/
M	CC						
## 19	7	53	RAWAH	B	42-44	17.0	B/
M	CC						
## 20	7	54	RAWAH	B	42-44	18.0	B/
M	CC						
## 21	7	55	RAWAH	B	42-44	15.0	B/
M	CC						
## 22	7	56	RAWAH	B	42-44	25.0	B/
M	CC						
## 23	7	57	RAWAH	B	42-44	39.0	B/
M	CC						
## 24	7	58	RAWAH	B	42-44	28.0	B/
M	CC						
## 25	7	59	RAWAH	B	42-44	35.0	
M	CC						
## 26	7	66	RAWAH	B	42-44	25.0	B/
M	CC						
## 27	7	67	RAWAH	B	42-44	16.0	
M	F						
## 28	7	71	RAWAH	B	42-44	26.0	
M	F						
## 29	7	74	RAWAH	B	42-44	20.0	
M	S						
## 30	7	77	RAWAH	B	44-46	60.0	B/
M	S						
## 31	7	80	RAWAH	B	46-48	26.0	
M	F						
## 32	19	108	RAWAH	A	0-2	1.5	
A	CC						
## 33	20	109	SNOW	A	2-4	39.0	A/
B	S						
## 34	20	110	SNOW	A	2-4	19.0	A/
B	S						
## 35	20	111	SNOW	A	2-4	3.0	A/
B	S						
## 36	20	112	SNOW	A	2-4	10.0	A/
B	F						

## 37	20	113	SNOW	A	2-4	7.0	A/
B	S						
## 38	20	114	SNOW	A	2-4	12.0	A/
B	F						
## 39	20	115	SNOW	A	2-4	18.0	A/
B	F						
## 40	20	116	SNOW	A	2-4	15.5	A/
B	F						
## 41	20	117	SNOW	A	2-4	20.0	A/
B	CC						
## 42	20	118	SNOW	A	2-4	22.0	A/
B	CV						
## 43	20	120	SNOW	A	4-6	12.0	A/
B	S						
## 44	20	121	SNOW	A	4-6	7.0	A/
B	S						
## 45	20	122	SNOW	A	4-6	8.0	A/
B	S						
## 46	20	123	SNOW	A	4-6	9.0	A/
B	CV						
## 47	20	124	SNOW	A	4-6	9.5	
A	CV						
## 48	20	125	SNOW	A	4-6	11.0	
A	CV						
## 49	20	126	SNOW	A	4-6	11.0	
B	S						
## 50	20	127	SNOW	A	4-6	18.0	
B	CC						
## 51	20	128	SNOW	A	4-6	12.0	A/
B	S						
## 52	20	129	SNOW	A	4-6	9.0	
B	S						
## 53	20	130	SNOW	A	4-6	8.5	A/
B	S						
## 54	20	131	SNOW	A	8-10	22.0	
A	F						
## 55	20	133	SNOW	B	10-12	7.0	A/
B	F						
## 56	20	134	SNOW	B	10-12	15.0	B/
M	CV						
## 57	20	135	SNOW	B	12-14	27.5	
B	F						

## 58	20	136	SNOW	B	12-14	12.0	B/
M	F						
## 59	20	138	SNOW	B	16-18	15.5	
A	CC						
## 60	20	140	SNOW	B	16-18	6.5	
A	F						
## 61	20	141	SNOW	B	16-18	4.0	
A	F						
## 62	20	159	SNOW	B	18-20	18.5	A/
B	CC						
## 63	20	168	SNOW	B	50-52	4.5	
A	CC						
## 64	21	169	LONG	A	24-26	23.5	
A	CC						
## 65	21	170	LONG	A	42-44	21.5	A/
L	F						
## 66	21	172	LONG	A	48-50	5.0	A/
B	S						
## 67	21	173	LONG	A	48-50	10.0	
A	CC						
## 68	21	174	LONG	A	48-50	5.0	
B	CC						
## 69	21	176	LONG	B	20-22	7.0	A/
L	CC						
## 70	23	179	MONTY	A	32-34	9.0	
A	CC						
## 71	23	180	MONTY	A	32-34	7.9	
A	CC						
## 72	23	181	MONTY	A	32-34	8.8	
A	CV						
## 73	23	182	MONTY	A	32-34	8.0	
A	CV						
## 74	23	184	MONTY	A	32-34	6.0	
A	CV						
## 75	23	185	MONTY	A	32-34	14.0	
A	CV						
## 76	23	186	MONTY	A	34-36	8.0	A/
L	F						
## 77	23	187	MONTY	A	34-36	1.0	
A	S						
## 78	23	188	MONTY	A	34-36	5.5	
A	CC						

## 79	23	189	MONTY	A	34-36	6.9	A/
A	CC						
## 80	23	190	MONTY	A	34-36	1.1	
A	CC						
## 81	23	191	MONTY	A	34-36	1.2	
A	S						
## 82	23	192	MONTY	A	34-36	1.6	
A	S						
## 83	23	193	MONTY	A	34-36	4.3	
L	CV						
## 84	23	198	MONTY	A	36-38	5.6	A/
A	CV						
## 85	23	199	MONTY	A	36-38	7.2	
A	CV						
## 86	23	201	MONTY	A	36-38	7.4	
A	CV						
## 87	23	202	MONTY	A	36-38	2.1	
A	F						
## 88	24	207	MONTY	A	22-24	4.8	
A	F						
## 89	25	219	LONG	A	6-8	3.9	A/
B	F						
## 90	25	220	LONG	A	6-8	5.5	
B	F						
## 91	25	221	LONG	A	6-8	2.6	
B	F						
## 92	25	222	LONG	A	6-8	9.6	
B	CC						
## 93	25	223	LONG	A	6-8	7.9	
B	CC						
## 94	25	224	LONG	A	6-8	3.0	A/
B	CV						
## 95	25	225	LONG	A	6-8	8.6	
B	CC						
## 96	25	228	LONG	A	6-8	10.2	
B	CV						
## 97	25	230	LONG	A	6-8	5.1	
B	S						
## 98	25	231	LONG	A	6-8	4.1	
B	S						
## 99	25	232	LONG	A	8-10	7.1	A/
M	CC						

##	100	25	233	LONG	A	8-10	13.6	
M		S						
##	101	25	236	LONG	A	8-10	5.8	
B		CC						
##	102	25	239	LONG	A	10-12	7.0	B/
M		F						
##	103	25	240	LONG	A	12-14	11.0	B/
M		F						
##	104	25	241	LONG	A	12-14	11.9	A/
B		S						
##	105	25	242	LONG	A	12-14	6.8	A/
B		S						
##	106	25	243	LONG	A	12-14	2.0	
A		CC						
##	107	25	244	LONG	A	12-14	5.0	
B		S						
##	108	25	245	LONG	A	12-14	15.6	
B		F						
##	109	25	246	LONG	A	12-14	24.9	
B		S						
##	110	25	250	LONG	A	12-14	3.9	
B		CC						
##	111	25	251	LONG	A	12-14	3.5	
M		CC						
##	112	25	252	LONG	A	12-14	9.9	
M		S						
##	113	25	256	LONG	A	16-18	8.8	
M		F						
##	114	25	257	LONG	A	16-18	9.0	
B		S						
##	115	25	258	LONG	A	16-18	6.5	
B		F						
##	116	25	259	LONG	A	16-18	12.0	
B		S						
##	117	25	260	LONG	A	16-18	10.0	B/
M		S						
##	118	25	261	LONG	A	16-18	4.0	A/
B		CC						
##	119	25	262	LONG	A	16-18	4.0	A/
B		CC						
##	120	25	263	LONG	A	16-18	3.0	A/
B		S						

## 121	25	264	LONG	A	16-18	2.0	A/
B	S						
## 122	25	265	LONG	A	20-22	6.5	
A	S						
## 123	26	270	LONG	A	16-18	18.1	B/
M	S						
## 124	26	271	LONG	A	24-26	11.4	
A	CC						
## 125	26	274	LONG	A	26-28	5.7	
B	CV						
## 126	26	276	LONG	A	26-28	7.1	
A	F						
## 127	26	278	LONG	A	36-38	1.6	
A	F						
## 128	26	279	LONG	A	36-38	15.3	
A	F						
## 129	26	280	LONG	A	36-38	1.1	
A	S						
## 130	26	281	LONG	A	40-42	7.4	
A	F						
## 131	26	283	LONG	B	40-42	23.0	A/
B	CC						
## 132	26	284	LONG	B	40-42	12.5	
A	CC						
## 133	26	285	LONG	B	40-42	5.0	
A	CC						
## 134	27	286	LONG	A	0-2	5.5	A/
B	F						
## 135	27	287	LONG	A	0-2	20.1	
B	S						
## 136	27	290	LONG	B	0-2	19.8	
A	F						
## 137	27	298	LONG	B	34-36	15.5	
A	S						
## 138	28	303	FISH	B	16-18	20.0	
A	F						
## 139	28	304	FISH	B	44-46	17.0	
A	CC						
## 140	34	321	CAM	A	34-36	26.7	
A	CC						
## 141	34	322	CAM	A	36-38	2.2	
A	CC						



## 142	34	327	CAM	A	42-44	4.3	A/
L	CC						
## 143	34	328	CAM	A	42-44	1.3	A/
L	CC						
## 144	34	329	CAM	A	42-44	1.5	
A	F						
## 145	34	330	CAM	A	42-44	4.4	
A	CC						
## 146	34	333	CAM	A	48-50	58.4	
A	F						
## 147	34	334	CAM	A	48-50	0.8	A/
L	CC						
## 148	34	338	CAM	B	14-16	1.6	
A	CC						
## 149	35	342	CAM	A	14-16	31.2	
A	CC						
## 150	35	344	CAM	B	4-6	4.6	
A	F						
## 151	35	345	CAM	B	4-6	24.8	A/
B	CV						
## 152	35	348	CAM	B	20-22	9.7	
A	F						
## 153	35	349	CAM	B	48-50	3.5	B/
M	F						
## 154	36	356	CAM	A	34-36	1.1	
A	F						
## 155	36	362	CAM	A	44-46	6.4	B/
M	CC						
## 156	36	363	CAM	A	46-48	2.3	
M	CC						
## 157	36	364	CAM	A	48-50	18.1	B/
M	CC						
## 158	36	365	CAM	A	48-50	13.1	B/
M	CC						
## 159	36	366	CAM	A	48-50	1.4	B/
M	CC						
## 160	36	369	CAM	B	34-36	6.0	
B	S						
## 161	36	370	CAM	B	34-36	6.6	
B	S						
## 162	36	371	CAM	B	34-36	4.8	
B	CC						

## 163	36	372	CAM	B	34-36	2.9	
B	CC						
## 164	36	374	CAM	B	36-38	16.9	
B	CC						
## 165	36	380	CAM	B	36-38	20.4	
A	CC						
## 166	36	382	CAM	B	36-38	7.9	
B	F						
## 167	36	383	CAM	B	36-38	5.5	
B	F						
## 168	36	384	CAM	B	36-38	13.3	
A	S						
## 169	36	385	CAM	B	36-38	3.4	
B	S						
## 170	36	386	CAM	B	36-38	3.6	
B	S						
## 171	36	390	CAM	B	38-40	3.7	
B	CC						
## 172	36	393	CAM	B	42-44	11.0	
B	CC						
## 173	36	394	CAM	B	42-44	13.4	
B	CC						
## 174	36	396	CAM	B	42-44	18.2	A/
B	S						
## 175	36	397	CAM	B	42-44	14.6	
B	S						
## 176	36	400	CAM	B	42-44	11.0	
A	CC						
## 177	36	402	CAM	B	48-50	19.8	
A	CC						
## 178	38	404	CAM	A	0-2	3.2	
B	F						
## 179	38	407	CAM	A	4-6	4.9	
B	CC						
## 180	38	408	CAM	A	4-6	7.9	
B	S						
## 181	38	409	CAM	A	4-6	4.5	
B	F						
## 182	38	410	CAM	A	4-6	4.7	
B	S						
## 183	38	411	CAM	A	4-6	17.1	
B	S						

## 184	38	412	CAM	A	4-6	9.1	
B	CC						
## 185	38	414	CAM	A	10-12	10.4	
B	CC						
## 186	38	415	CAM	A	10-12	6.3	
B	S						
## 187	38	417	CAM	A	10-12	10.3	
B	S						
## 188	38	418	CAM	A	10-12	5.2	
B	S						
## 189	38	420	CAM	A	12-14	4.6	
B	S						
## 190	38	422	CAM	A	12-14	6.2	
B	S						
## 191	38	423	CAM	A	12-14	7.6	
B	CC						
## 192	38	424	CAM	A	12-14	5.2	
B	CC						
## 193	38	425	CAM	A	12-14	7.5	A/
B	F						
## 194	38	427	CAM	A	14-16	22.6	
B	C						
## 195	38	428	CAM	A	14-16	4.7	
B	CV						
## 196	38	432	CAM	A	16-18	4.2	
B	CC						
## 197	38	434	CAM	A	16-18	8.2	
B	CC						
## 198	38	435	CAM	A	16-18	8.1	
B	F						
## 199	38	436	CAM	A	16-18	5.3	
B	S						
## 200	38	438	CAM	A	16-18	5.2	
B	S						
## 201	38	439	CAM	A	20-22	45.7	
B	S						
## 202	38	440	CAM	A	20-22	14.6	
B	F						
## 203	38	441	CAM	A	20-22	3.6	
B	CC						
## 204	38	443	CAM	A	20-22	5.2	
B	S						

## 205	38	444	CAM	A	22-24	15.0
B	CC					
## 206	38	445	CAM	A	22-24	12.0
B	S					
## 207	38	446	CAM	A	22-24	9.6
B	S					
## 208	38	458	CAM	A	32-34	10.4
B	F					
## 209	38	460	CAM	A	32-34	8.2
B	S					
## 210	38	461	CAM	A	32-34	10.6
B	S					
## 211	38	462	CAM	A	32-34	9.9
B	S					
## 212	38	463	CAM	A	32-34	2.2
B	F					
## 213	38	475	CAM	A	34-36	12.2
B	S					
## 214	38	482	CAM	A	36-38	18.4
B	S					
## 215	38	488	CAM	A	48-50	4.0
B	CC					
## 216	38	489	CAM	A	48-50	6.9
B	S					
## 217	38	491	CAM	B	4-6	6.7
A	S					
## 218	38	493	CAM	B	4-6	17.9
A	CC					
## 219	38	499	CAM	B	20-22	10.3
B	S					
## 220	38	500	CAM	B	20-22	10.5
B	F					
## 221	38	501	CAM	B	20-22	7.3
B	CC					
## 222	38	505	CAM	B	22-24	9.5
A	F					
## 223	38	509	CAM	B	28-30	6.9
B	S					
## 224	38	516	CAM	B	32-34	46.6
B	CC					
## 225	38	520	CAM	B	34-36	6.8
B	F					

## 226	38	525	CAM	B	36-38	7.1	
B	F						
## 227	38	526	CAM	B	36-38	6.9	
B	F						
## 228	38	527	CAM	B	36-38	6.5	
B	S						
## 229	38	528	CAM	B	38-40	10.3	
B	S						
## 230	38	531	CAM	B	38-40	5.4	
B	S						
## 231	38	534	CAM	B	40-42	10.9	
B	F						
## 232	38	557	CAM	B	50-52	11.6	
B	S						
## 233	38	558	CAM	B	50-52	11.8	A/
B	CC						
## 234	38	560	CAM	B	50-52	19.0	
B	S						
## 235	38	561	CAM	B	50-52	6.5	
A	CC						
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	CC	0	0	1.25	0	0	
ELKHORN							
## 2	CC	0	0	51.00	0	0	
LAKE							
## 3	CC	0	0	51.00	0	0	
RAWAH							
## 4	CC	0	0	51.00	0	0	
RAWAH							
## 5	CC	0	0	51.00	0	0	
RAWAH							
## 6	CC	0	0	51.00	0	0	
RAWAH							
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RAWAH							
## 8	CC	0	0	51.00	0	1	
RAWAH							
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RAWAH							
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RAWAH							

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RAWAH						
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## 221	CC	1	0	51.00	0	0
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## 222	CC	1	0	51.00	0	0
CAM						
## 223	CC	0	0	51.00	0	0
CAM						
## 224	CC	1	0	51.00	0	0
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CAM						
## 226	CC	0	0	51.00	0	0
CAM						
## 227	CC	0	0	51.00	0	0
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CAM						
## 229	CC	0	0	51.00	0	0
CAM						
## 230	CC	0	0	51.00	0	0
CAM						
## 231	CC	0	0	51.00	0	0
CAM						
## 232	CC	0	0	51.00	0	1
CAM						
## 233	CC	0	0	51.00	0	0
CAM						
## 234	CC	0	0	51.00	0	1
CAM						
## 235	CC	0	0	51.00	0	0
CAM						

##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing
Elevation	Slope				

## 1	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 2	5	20.5	LAKE	427646.0	4494147
2825	-5				
## 3	7	31.0	RAWAH	427082.0	4499706
2710	-7				
## 4	7	28.0	RAWAH	427082.0	4499706
2710	-7				
## 5	7	28.0	RAWAH	427082.0	4499706
2710	-7				



## 6		7	44.0	RAWAH	427082.0	4499706
2710	-7					
## 7		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 8		7	42.0	RAWAH	427082.0	4499706
2710	-7					
## 9		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 10		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 11		7	11.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	37.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 18		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 19		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 20		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	39.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	25.0	RAWAH	427082.0	4499706
2710	-7					

## 27		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 28		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 29		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 30		7	60.0	RAWAH	427082.0	4499706
2710	-7					
## 31		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 32		19	1.5	RAWAH	427155.5	4498773
2751	-10					
## 33		20	39.0	SNOW	426996.6	4492304
2959	-10					
## 34		20	19.0	SNOW	426996.6	4492304
2959	-10					
## 35		20	3.0	SNOW	426996.6	4492304
2959	-10					
## 36		20	10.0	SNOW	426996.6	4492304
2959	-10					
## 37		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 38		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 39		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 40		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 41		20	20.0	SNOW	426996.6	4492304
2959	-10					
## 42		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 43		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 44		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 45		20	8.0	SNOW	426996.6	4492304
2959	-10					
## 46		20	9.0	SNOW	426996.6	4492304
2959	-10					
## 47		20	9.5	SNOW	426996.6	4492304
2959	-10					

## 48		20	11.0	SNOW	426996.6	4492304
2959	-10					
## 49		20	11.0	SNOW	426996.6	4492304
2959	-10					
## 50		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 51		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 52		20	9.0	SNOW	426996.6	4492304
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## 53		20	8.5	SNOW	426996.6	4492304
2959	-10					
## 54		20	22.0	SNOW	426996.6	4492304
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## 55		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 56		20	15.0	SNOW	426996.6	4492304
2959	-10					
## 57		20	27.5	SNOW	426996.6	4492304
2959	-10					
## 58		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 59		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 60		20	6.5	SNOW	426996.6	4492304
2959	-10					
## 61		20	4.0	SNOW	426996.6	4492304
2959	-10					
## 62		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 63		20	4.5	SNOW	426996.6	4492304
2959	-10					
## 64		21	23.5	LONG	429815.3	4490511
3029	-1					
## 65		21	21.5	LONG	429815.3	4490511
3029	-1					
## 66		21	5.0	LONG	429815.3	4490511
3029	-1					
## 67		21	10.0	LONG	429815.3	4490511
3029	-1					
## 68		21	5.0	LONG	429815.3	4490511
3029	-1					

## 69		21	7.0	LONG	429815.3	4490511
3029	-1					
## 70		23	9.0	MONTY	424655.0	4489019
3259	-13					
## 71		23	7.9	MONTY	424655.0	4489019
3259	-13					
## 72		23	8.8	MONTY	424655.0	4489019
3259	-13					
## 73		23	8.0	MONTY	424655.0	4489019
3259	-13					
## 74		23	6.0	MONTY	424655.0	4489019
3259	-13					
## 75		23	14.0	MONTY	424655.0	4489019
3259	-13					
## 76		23	8.0	MONTY	424655.0	4489019
3259	-13					
## 77		23	1.0	MONTY	424655.0	4489019
3259	-13					
## 78		23	5.5	MONTY	424655.0	4489019
3259	-13					
## 79		23	6.9	MONTY	424655.0	4489019
3259	-13					
## 80		23	1.1	MONTY	424655.0	4489019
3259	-13					
## 81		23	1.2	MONTY	424655.0	4489019
3259	-13					
## 82		23	1.6	MONTY	424655.0	4489019
3259	-13					
## 83		23	4.3	MONTY	424655.0	4489019
3259	-13					
## 84		23	5.6	MONTY	424655.0	4489019
3259	-13					
## 85		23	7.2	MONTY	424655.0	4489019
3259	-13					
## 86		23	7.4	MONTY	424655.0	4489019
3259	-13					
## 87		23	2.1	MONTY	424655.0	4489019
3259	-13					
## 88		24	4.8	MONTY	424640.0	4488778
3199	-12					
## 89		25	3.9	LONG	431465.0	4490417
3068	-7					

## 90		25	5.5	LONG	431465.0	4490417
3068	-7					
## 91		25	2.6	LONG	431465.0	4490417
3068	-7					
## 92		25	9.6	LONG	431465.0	4490417
3068	-7					
## 93		25	7.9	LONG	431465.0	4490417
3068	-7					
## 94		25	3.0	LONG	431465.0	4490417
3068	-7					
## 95		25	8.6	LONG	431465.0	4490417
3068	-7					
## 96		25	10.2	LONG	431465.0	4490417
3068	-7					
## 97		25	5.1	LONG	431465.0	4490417
3068	-7					
## 98		25	4.1	LONG	431465.0	4490417
3068	-7					
## 99		25	7.1	LONG	431465.0	4490417
3068	-7					
## 100		25	13.6	LONG	431465.0	4490417
3068	-7					
## 101		25	5.8	LONG	431465.0	4490417
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## 102		25	7.0	LONG	431465.0	4490417
3068	-7					
## 103		25	11.0	LONG	431465.0	4490417
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## 104		25	11.9	LONG	431465.0	4490417
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## 106		25	2.0	LONG	431465.0	4490417
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## 107		25	5.0	LONG	431465.0	4490417
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## 108		25	15.6	LONG	431465.0	4490417
3068	-7					
## 109		25	24.9	LONG	431465.0	4490417
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## 110		25	3.9	LONG	431465.0	4490417
3068	-7					

## 111	25	3.5	LONG	431465.0	4490417
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## 112	25	9.9	LONG	431465.0	4490417
3068 -7					
## 113	25	8.8	LONG	431465.0	4490417
3068 -7					
## 114	25	9.0	LONG	431465.0	4490417
3068 -7					
## 115	25	6.5	LONG	431465.0	4490417
3068 -7					
## 116	25	12.0	LONG	431465.0	4490417
3068 -7					
## 117	25	10.0	LONG	431465.0	4490417
3068 -7					
## 118	25	4.0	LONG	431465.0	4490417
3068 -7					
## 119	25	4.0	LONG	431465.0	4490417
3068 -7					
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3068 -7					
## 121	25	2.0	LONG	431465.0	4490417
3068 -7					
## 122	25	6.5	LONG	431465.0	4490417
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## 123	26	18.1	LONG	431200.0	4490450
3099 -48					
## 124	26	11.4	LONG	431200.0	4490450
3099 -48					
## 125	26	5.7	LONG	431200.0	4490450
3099 -48					
## 126	26	7.1	LONG	431200.0	4490450
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## 127	26	1.6	LONG	431200.0	4490450
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## 128	26	15.3	LONG	431200.0	4490450
3099 -48					
## 129	26	1.1	LONG	431200.0	4490450
3099 -48					
## 130	26	7.4	LONG	431200.0	4490450
3099 -48					
## 131	26	23.0	LONG	431200.0	4490450
3099 -48					

## 132	26	12.5	LONG	431200.0	4490450
3099 -48					
## 133	26	5.0	LONG	431200.0	4490450
3099 -48					
## 134	27	5.5	LONG	430929.0	4490476
3090 -11					
## 135	27	20.1	LONG	430929.0	4490476
3090 -11					
## 136	27	19.8	LONG	430929.0	4490476
3090 -11					
## 137	27	15.5	LONG	430929.0	4490476
3090 -11					
## 138	28	20.0	FISH	454709.0	4496418
2571 -5					
## 139	28	17.0	FISH	454709.0	4496418
2571 -5					
## 140	34	26.7	CAM	434425.0	4485996
3106 -9					
## 141	34	2.2	CAM	434425.0	4485996
3106 -9					
## 142	34	4.3	CAM	434425.0	4485996
3106 -9					
## 143	34	1.3	CAM	434425.0	4485996
3106 -9					
## 144	34	1.5	CAM	434425.0	4485996
3106 -9					
## 145	34	4.4	CAM	434425.0	4485996
3106 -9					
## 146	34	58.4	CAM	434425.0	4485996
3106 -9					
## 147	34	0.8	CAM	434425.0	4485996
3106 -9					
## 148	34	1.6	CAM	434425.0	4485996
3106 -9					
## 149	35	31.2	CAM	434642.0	4485999
3093 -5					
## 150	35	4.6	CAM	434642.0	4485999
3093 -5					
## 151	35	24.8	CAM	434642.0	4485999
3093 -5					
## 152	35	9.7	CAM	434642.0	4485999
3093 -5					

## 153	35	3.5	CAM	434642.0	4485999
3093 -5					
## 154	36	1.1	CAM	434021.0	4485004
3020 -10					
## 155	36	6.4	CAM	434021.0	4485004
3020 -10					
## 156	36	2.3	CAM	434021.0	4485004
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## 157	36	18.1	CAM	434021.0	4485004
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## 158	36	13.1	CAM	434021.0	4485004
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## 159	36	1.4	CAM	434021.0	4485004
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## 163	36	2.9	CAM	434021.0	4485004
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## 167	36	5.5	CAM	434021.0	4485004
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## 168	36	13.3	CAM	434021.0	4485004
3020 -10					
## 169	36	3.4	CAM	434021.0	4485004
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## 170	36	3.6	CAM	434021.0	4485004
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## 171	36	3.7	CAM	434021.0	4485004
3020 -10					
## 172	36	11.0	CAM	434021.0	4485004
3020 -10					
## 173	36	13.4	CAM	434021.0	4485004
3020 -10					



## 174	36	18.2	CAM	434021.0	4485004
3020 -10					
## 175	36	14.6	CAM	434021.0	4485004
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## 176	36	11.0	CAM	434021.0	4485004
3020 -10					
## 177	36	19.8	CAM	434021.0	4485004
3020 -10					
## 178	38	3.2	CAM	434173.0	4486246
3154 -4					
## 179	38	4.9	CAM	434173.0	4486246
3154 -4					
## 180	38	7.9	CAM	434173.0	4486246
3154 -4					
## 181	38	4.5	CAM	434173.0	4486246
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## 182	38	4.7	CAM	434173.0	4486246
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## 184	38	9.1	CAM	434173.0	4486246
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## 185	38	10.4	CAM	434173.0	4486246
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## 187	38	10.3	CAM	434173.0	4486246
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## 188	38	5.2	CAM	434173.0	4486246
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## 189	38	4.6	CAM	434173.0	4486246
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3154 -4					
## 191	38	7.6	CAM	434173.0	4486246
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## 192	38	5.2	CAM	434173.0	4486246
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## 195		38	4.7	CAM	434173.0	4486246
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## 196		38	4.2	CAM	434173.0	4486246
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## 197		38	8.2	CAM	434173.0	4486246
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## 200		38	5.2	CAM	434173.0	4486246
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## 201		38	45.7	CAM	434173.0	4486246
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3154	-4					
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## 206		38	12.0	CAM	434173.0	4486246
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## 207		38	9.6	CAM	434173.0	4486246
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3154	-4					
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##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
	Transect.B					

## 1	88	CC	NA
NA			
## 2	75	CC	75
165			
## 3	30	F	252
162			
## 4	30	F	252
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## 5	30	F	252
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## 10	30	F	252
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## 11	30	F	252
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## 13	30	F	252
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## 14	30	F	252
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## 15	30	F	252
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## 19	30	F	252
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## 21	30	F	252
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## 23	30	F	252
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## 25	30	F	252
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## 26	30	F	252
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## 27	30	F	252
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## 28	30	F	252
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## 29	30	F	252
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## 30	30	F	252
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## 31	30	F	252
162			
## 32	84	F/S	356
264			
## 33	12	CV	228
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## 34	12	CV	228
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## 35	12	CV	228
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## 47	12	CV	228
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## 49	12	CV	228
312			
## 50	12	CV	228
312			
## 51	12	CV	228
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## 52	12	CV	228
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## 53	12	CV	228
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## 54	12	CV	228
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## 55	12	CV	228
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## 56	12	CV	228
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## 57	12	CV	228
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## 58	12	CV	228
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## 59	12	CV	228
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## 60	12	CV	228
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## 61	12	CV	228
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## 62	12	CV	228
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## 63	12	CV	228
312			

## 64	298	CC	288
210			
## 65	298	CC	288
210			
## 66	298	CC	288
210			
## 67	298	CC	288
210			
## 68	298	CC	288
210			
## 69	298	CC	288
210			
## 70	194	F/S	46
316			
## 71	194	F/S	46
316			
## 72	194	F/S	46
316			
## 73	194	F/S	46
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## 74	194	F/S	46
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## 75	194	F/S	46
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## 76	194	F/S	46
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## 77	194	F/S	46
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## 78	194	F/S	46
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## 79	194	F/S	46
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## 80	194	F/S	46
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## 81	194	F/S	46
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## 82	194	F/S	46
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## 83	194	F/S	46
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## 84	194	F/S	46
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## 85	194	F/S	46
316			
## 86	194	F/S	46
316			
## 87	194	F/S	46
316			
## 88	160	F/S	184
90			
## 89	130	F	222
310			
## 90	130	F	222
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## 91	130	F	222
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## 92	130	F	222
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## 93	130	F	222
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## 94	130	F	222
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## 95	130	F	222
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## 96	130	F	222
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## 97	130	F	222
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## 98	130	F	222
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## 99	130	F	222
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## 100	130	F	222
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## 101	130	F	222
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## 102	130	F	222
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## 103	130	F	222
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## 104	130	F	222
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## 105	130	F	222
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## 106	130	F	222
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## 107	130	F	222
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## 108	130	F	222
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## 109	130	F	222
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## 110	130	F	222
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## 111	130	F	222
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## 112	130	F	222
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## 113	130	F	222
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## 114	130	F	222
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## 115	130	F	222
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## 116	130	F	222
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## 117	130	F	222
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## 118	130	F	222
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## 119	130	F	222
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## 120	130	F	222
310			
## 121	130	F	222
310			
## 122	130	F	222
310			
## 123	240	CC	210
120			
## 124	240	CC	210
120			
## 125	240	CC	210
120			
## 126	240	CC	210
120			

## 127	240	CC	210
120			
## 128	240	CC	210
120			
## 129	240	CC	210
120			
## 130	240	CC	210
120			
## 131	240	CC	210
120			
## 132	240	CC	210
120			
## 133	240	CC	210
120			
## 134	120	S	280
110			
## 135	120	S	280
110			
## 136	120	S	280
110			
## 137	120	S	280
110			
## 138	286	CC	106
190			
## 139	286	CC	106
190			
## 140	194	F/S	274
180			
## 141	194	F/S	274
180			
## 142	194	F/S	274
180			
## 143	194	F/S	274
180			
## 144	194	F/S	274
180			
## 145	194	F/S	274
180			
## 146	194	F/S	274
180			
## 147	194	F/S	274
180			

## 148	194	F/S	274
180			
## 149	90	CC	72
164			
## 150	90	CC	72
164			
## 151	90	CC	72
164			
## 152	90	CC	72
164			
## 153	90	CC	72
164			
## 154	216	F/S	166
74			
## 155	216	F/S	166
74			
## 156	216	F/S	166
74			
## 157	216	F/S	166
74			
## 158	216	F/S	166
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## 159	216	F/S	166
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## 160	216	F/S	166
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## 161	216	F/S	166
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## 162	216	F/S	166
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## 163	216	F/S	166
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## 164	216	F/S	166
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## 165	216	F/S	166
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## 166	216	F/S	166
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## 167	216	F/S	166
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## 168	216	F/S	166
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## 169	216	F/S	166
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## 170	216	F/S	166
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## 171	216	F/S	166
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## 172	216	F/S	166
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## 173	216	F/S	166
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## 174	216	F/S	166
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## 175	216	F/S	166
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## 176	216	F/S	166
74			
## 177	216	F/S	166
74			
## 178	190	F/S	56
142			
## 179	190	F/S	56
142			
## 180	190	F/S	56
142			
## 181	190	F/S	56
142			
## 182	190	F/S	56
142			
## 183	190	F/S	56
142			
## 184	190	F/S	56
142			
## 185	190	F/S	56
142			
## 186	190	F/S	56
142			
## 187	190	F/S	56
142			
## 188	190	F/S	56
142			
## 189	190	F/S	56
142			

## 190	190	F/S	56
142			
## 191	190	F/S	56
142			
## 192	190	F/S	56
142			
## 193	190	F/S	56
142			
## 194	190	F/S	56
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## 195	190	F/S	56
142			
## 196	190	F/S	56
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## 197	190	F/S	56
142			
## 198	190	F/S	56
142			
## 199	190	F/S	56
142			
## 200	190	F/S	56
142			
## 201	190	F/S	56
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## 202	190	F/S	56
142			
## 203	190	F/S	56
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## 204	190	F/S	56
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## 205	190	F/S	56
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## 206	190	F/S	56
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## 207	190	F/S	56
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## 208	190	F/S	56
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## 209	190	F/S	56
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## 210	190	F/S	56
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## 211	190	F/S	56
142			
## 212	190	F/S	56
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## 213	190	F/S	56
142			
## 214	190	F/S	56
142			
## 215	190	F/S	56
142			
## 216	190	F/S	56
142			
## 217	190	F/S	56
142			
## 218	190	F/S	56
142			
## 219	190	F/S	56
142			
## 220	190	F/S	56
142			
## 221	190	F/S	56
142			
## 222	190	F/S	56
142			
## 223	190	F/S	56
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## 224	190	F/S	56
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## 225	190	F/S	56
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## 226	190	F/S	56
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## 227	190	F/S	56
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## 228	190	F/S	56
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## 229	190	F/S	56
142			
## 230	190	F/S	56
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## 231	190	F/S	56
142			

## 232	190	F/S	56
142			
## 233	190	F/S	56
142			
## 234	190	F/S	56
142			
## 235	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	7.0	
## 2	51	51.0	
## 3	51	25.0	
## 4	51	25.0	
## 5	51	25.0	
## 6	51	25.0	
## 7	51	25.0	
## 8	51	25.0	
## 9	51	25.0	
## 10	51	25.0	
## 11	51	25.0	
## 12	51	25.0	
## 13	51	25.0	
## 14	51	25.0	
## 15	51	25.0	
## 16	51	25.0	
## 17	51	25.0	
## 18	51	25.0	
## 19	51	25.0	
## 20	51	25.0	
## 21	51	25.0	
## 22	51	25.0	
## 23	51	25.0	
## 24	51	25.0	
## 25	51	25.0	
## 26	51	25.0	
## 27	51	25.0	
## 28	51	25.0	
## 29	51	25.0	
## 30	51	25.0	
## 31	51	25.0	

## 32	51	35.0
## 33	51	51.0
## 34	51	51.0
## 35	51	51.0
## 36	51	51.0
## 37	51	51.0
## 38	51	51.0
## 39	51	51.0
## 40	51	51.0
## 41	51	51.0
## 42	51	51.0
## 43	51	51.0
## 44	51	51.0
## 45	51	51.0
## 46	51	51.0
## 47	51	51.0
## 48	51	51.0
## 49	51	51.0
## 50	51	51.0
## 51	51	51.0
## 52	51	51.0
## 53	51	51.0
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## 56	51	51.0
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## 58	51	51.0
## 59	51	51.0
## 60	51	51.0
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## 62	51	51.0
## 63	51	51.0
## 64	65	51.0
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## 66	65	51.0
## 67	65	51.0
## 68	65	51.0
## 69	65	51.0
## 70	51	51.0
## 71	51	51.0



## 72	51	51.0
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## 85	51	51.0
## 86	51	51.0
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## 89	51	51.0
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## 96	51	51.0
## 97	51	51.0
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## 119	51	51.0
## 120	51	51.0
## 121	51	51.0
## 122	51	51.0
## 123	51	51.0
## 124	51	51.0
## 125	51	51.0
## 126	51	51.0
## 127	51	51.0
## 128	51	51.0
## 129	51	51.0
## 130	51	51.0
## 131	51	51.0
## 132	51	51.0
## 133	51	51.0
## 134	51	51.0
## 135	51	51.0
## 136	51	51.0
## 137	51	51.0
## 138	51	5.4
## 139	51	5.4
## 140	51	51.0
## 141	51	51.0
## 142	51	51.0
## 143	51	51.0
## 144	51	51.0
## 145	51	51.0
## 146	51	51.0
## 147	51	51.0
## 148	51	51.0
## 149	51	51.0
## 150	51	51.0
## 151	51	51.0

## 152	51	51.0
## 153	51	51.0
## 154	51	51.0
## 155	51	51.0
## 156	51	51.0
## 157	51	51.0
## 158	51	51.0
## 159	51	51.0
## 160	51	51.0
## 161	51	51.0
## 162	51	51.0
## 163	51	51.0
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## 169	51	51.0
## 170	51	51.0
## 171	51	51.0
## 172	51	51.0
## 173	51	51.0
## 174	51	51.0
## 175	51	51.0
## 176	51	51.0
## 177	51	51.0
## 178	51	51.0
## 179	51	51.0
## 180	51	51.0
## 181	51	51.0
## 182	51	51.0
## 183	51	51.0
## 184	51	51.0
## 185	51	51.0
## 186	51	51.0
## 187	51	51.0
## 188	51	51.0
## 189	51	51.0
## 190	51	51.0
## 191	51	51.0

## 192	51	51.0
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## 194	51	51.0
## 195	51	51.0
## 196	51	51.0
## 197	51	51.0
## 198	51	51.0
## 199	51	51.0
## 200	51	51.0
## 201	51	51.0
## 202	51	51.0
## 203	51	51.0
## 204	51	51.0
## 205	51	51.0
## 206	51	51.0
## 207	51	51.0
## 208	51	51.0
## 209	51	51.0
## 210	51	51.0
## 211	51	51.0
## 212	51	51.0
## 213	51	51.0
## 214	51	51.0
## 215	51	51.0
## 216	51	51.0
## 217	51	51.0
## 218	51	51.0
## 219	51	51.0
## 220	51	51.0
## 221	51	51.0
## 222	51	51.0
## 223	51	51.0
## 224	51	51.0
## 225	51	51.0
## 226	51	51.0
## 227	51	51.0
## 228	51	51.0
## 229	51	51.0
## 230	51	51.0
## 231	51	51.0

## 232		51	51.0
## 233		51	51.0
## 234		51	51.0
## 235		51	51.0

CV

##	SITE..	seedling	SITE.NAME	Transect	Subplot	Height..cm.	Substrate
## 1	7	60	RAWAH	B	42-44	11.0	B
CV							
## 2	7	61	RAWAH	B	42-44	15.0	B
CV							
## 3	7	62	RAWAH	B	42-44	8.0	B
CV							
## 4	7	90	RAWAH	B	48-50	32.0	M
CV							
## 5	11	97	BLUE	A	26-28	25.0	A/M
CC							
## 6	23	178	MONTY	A	32-34	9.5	A
S							
## 7	23	200	MONTY	A	36-38	5.7	A
S							
## 8	25	249	LONG	A	12-14	8.4	B
CC							
## 9	25	255	LONG	A	14-16	7.5	B
S							
## 10	26	275	LONG	A	26-28	15.9	A
F							
## 11	35	346	CAM	B	14-16	4.4	B/M
CC							
## 12	35	347	CAM	B	14-16	10.4	A/B
CC							
## 13	36	353	CAM	A	24-26	18.0	A
CC							
## 14	36	354	CAM	A	30-32	4.9	A
F							
## 15	36	355	CAM	A	30-32	4.1	A/W
CV							
## 16	36	373	CAM	B	34-36	13.8	B
CV							
## 17	36	395	CAM	B	42-44	10.8	A

S								
## 18	38	416	CAM	A	10-12	11.7	A/B	
F								
## 19	38	433	CAM	A	16-18	10.5	B	
S								
## 20	38	459	CAM	A	32-34	19.1	B	
CV								
## 21	38	517	CAM	B	34-36	14.3	B	
CC								
## 22	38	529	CAM	B	38-40	11.8	B	
S								
## 23	38	530	CAM	B	38-40	3.5	B	
S								
## 24	38	532	CAM	B	38-40	6.4	B	
CC								
## 25	38	533	CAM	B	38-40	7.0	B	
CC								
## 26	38	535	CAM	B	40-42	8.8	B	
F								
## 27	38	536	CAM	B	40-42	9.0	B	
F								
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	site.name	
## 1	CV	0	0	51	0	0	RAWAH	
## 2	CV	0	0	51	0	0	RAWAH	
## 3	CV	0	0	51	0	0	RAWAH	
## 4	CV	0	0	51	0	0	RAWAH	
## 5	CV	1	1	51	0	0	BLUE	
## 6	CV	0	0	51	0	0	MONTY	
## 7	CV	0	0	51	0	0	MONTY	
## 8	CV	0	0	51	0	0	LONG	
## 9	CV	0	0	51	0	0	LONG	
## 10	CV	0	0	51	0	0		

LONG						
## 11	CV	1	0	51	0	0
CAM						
## 12	CV	1	0	51	0	0
CAM						
## 13	CV	1	0	51	0	0
CAM						
## 14	CV	1	1	51	0	0
CAM						
## 15	CV	0	0	51	0	0
CAM						
## 16	CV	1	0	51	0	0
CAM						
## 17	CV	1	0	51	0	0
CAM						
## 18	CV	0	0	51	0	0
CAM						
## 19	CV	0	0	51	0	0
CAM						
## 20	CV	0	0	51	0	0
CAM						
## 21	CV	0	0	51	0	0
CAM						
## 22	CV	0	0	51	0	0
CAM						
## 23	CV	0	0	51	0	0
CAM						
## 24	CV	0	0	51	0	0
CAM						
## 25	CV	0	0	51	0	0
CAM						
## 26	CV	0	0	51	0	1
CAM						
## 27	CV	0	0	51	0	0
CAM						

##	site.	Number	height	Cluster	UTM.Easting..13T.	UTM.Northing
Elevation Slope						
## 1		7	11.0	RAWAH	427082	4499706
2710	-7					
## 2		7	15.0	RAWAH	427082	4499706
2710	-7					
## 3		7	8.0	RAWAH	427082	4499706

2710	-7					
## 4		7	32.0	RAWAH	427082	4499706
2710	-7					
## 5		11	25.0	BLUE	427118	4493949
2901	-10					
## 6		23	9.5	MONTY	424655	4489019
3259	-13					
## 7		23	5.7	MONTY	424655	4489019
3259	-13					
## 8		25	8.4	LONG	431465	4490417
3068	-7					
## 9		25	7.5	LONG	431465	4490417
3068	-7					
## 10		26	15.9	LONG	431200	4490450
3099	-48					
## 11		35	4.4	CAM	434642	4485999
3093	-5					
## 12		35	10.4	CAM	434642	4485999
3093	-5					
## 13		36	18.0	CAM	434021	4485004
3020	-10					
## 14		36	4.9	CAM	434021	4485004
3020	-10					
## 15		36	4.1	CAM	434021	4485004
3020	-10					
## 16		36	13.8	CAM	434021	4485004
3020	-10					
## 17		36	10.8	CAM	434021	4485004
3020	-10					
## 18		38	11.7	CAM	434173	4486246
3154	-4					
## 19		38	10.5	CAM	434173	4486246
3154	-4					
## 20		38	19.1	CAM	434173	4486246
3154	-4					
## 21		38	14.3	CAM	434173	4486246
3154	-4					
## 22		38	11.8	CAM	434173	4486246
3154	-4					
## 23		38	3.5	CAM	434173	4486246
3154	-4					
## 24		38	6.4	CAM	434173	4486246



3154	-4					
## 25		38	7.0	CAM	434173	4486246
3154	-4					
## 26		38	8.8	CAM	434173	4486246
3154	-4					
## 27		38	9.0	CAM	434173	4486246
3154	-4					
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
Transect.B						
## 1	30			F		252
162						
## 2	30			F		252
162						
## 3	30			F		252
162						
## 4	30			F		252
162						
## 5	92			F		290
20						
## 6	194			F/S		46
316						
## 7	194			F/S		46
316						
## 8	130			F		222
310						
## 9	130			F		222
310						
## 10	240			CC		210
120						
## 11	90			CC		72
164						
## 12	90			CC		72
164						
## 13	216			F/S		166
74						
## 14	216			F/S		166
74						
## 15	216			F/S		166
74						
## 16	216			F/S		166
74						
## 17	216			F/S		166

74			
## 18	190	F/S	56
142			
## 19	190	F/S	56
142			
## 20	190	F/S	56
142			
## 21	190	F/S	56
142			
## 22	190	F/S	56
142			
## 23	190	F/S	56
142			
## 24	190	F/S	56
142			
## 25	190	F/S	56
142			
## 26	190	F/S	56
142			
## 27	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	25	
## 2	51	25	
## 3	51	25	
## 4	51	25	
## 5	51	51	
## 6	51	51	
## 7	51	51	
## 8	51	51	
## 9	51	51	
## 10	51	51	
## 11	51	51	
## 12	51	51	
## 13	51	51	
## 14	51	51	
## 15	51	51	
## 16	51	51	
## 17	51	51	
## 18	51	51	
## 19	51	51	

## 20	51	51
## 21	51	51
## 22	51	51
## 23	51	51
## 24	51	51
## 25	51	51
## 26	51	51
## 27	51	51

S

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.		
Substrate	Small.Topo						
## 1	6	12	LAKE	A	16-18	39.0	
M	S						
## 2	7	14	RAWAH	A	0-2	27.0	B/
M	CC						
## 3	7	15	RAWAH	A	0-2	26.0	B/
M	F						
## 4	7	16	RAWAH	A	0-2	30.0	B/
M	F						
## 5	7	17	RAWAH	A	0-2	21.0	B/
M	F						
## 6	7	18	RAWAH	A	0-2	17.0	B/
M	S						
## 7	7	20	RAWAH	A	0-2	26.0	B/
M	CC						
## 8	7	21	RAWAH	A	0-2	16.0	B/
M	S						
## 9	7	22	RAWAH	A	0-2	17.0	B/
M	CC						
## 10	7	41	RAWAH	B	34-36	13.0	
A	CV						
## 11	7	42	RAWAH	B	34-36	29.0	
A	CV						
## 12	7	64	RAWAH	B	42-44	30.0	
W	S						
## 13	7	65	RAWAH	B	42-44	39.0	
W	S						
## 14	7	72	RAWAH	B	42-44	26.0	
B	CC						
## 15	7	73	RAWAH	B	42-44	16.0	B/

M	S						
## 16	7	76	RAWAH	B	44-46	34.0	B/
M	S						
## 17	7	78	RAWAH	B	44-46	45.0	B/
M	CC						
## 18	8	91	RAWAH	A	0-2	9.0	
M	S						
## 19	8	92	RAWAH	A	40-42	24.0	
L	F						
## 20	8	93	RAWAH	B	40-42	9.0	
A	F						
## 21	11	96	BLUE	A	20-22	29.0	A/
M	S						
## 22	12	98	BLUE	A	0-2	28.0	
M	S						
## 23	12	99	BLUE	A	0-2	16.0	
M	S						
## 24	12	100	BLUE	A	0-2	6.0	
M	S						
## 25	14	102	RES	B	16-18	10.0	
M	CC						
## 26	17	105	RAWAH	B	40-42	6.0	
M	CC						
## 27	20	119	SNOW	A	4-6	6.0	
M	S						
## 28	20	132	SNOW	B	10-12	4.5	
B	CV						
## 29	20	139	SNOW	B	16-18	17.0	
A	F						
## 30	20	142	SNOW	B	18-20	20.5	
A	CC						
## 31	20	143	SNOW	B	18-20	18.5	A/
B	CC						
## 32	20	144	SNOW	B	18-20	5.5	
A	CC						
## 33	20	145	SNOW	B	18-20	11.5	
A	CC						
## 34	20	146	SNOW	B	18-20	11.0	
A	CC						
## 35	20	147	SNOW	B	18-20	8.0	
A	CC						
## 36	20	148	SNOW	B	18-20	13.5	

A	S						
## 37	20	149	SNOW	B	18-20	1.5	
A	CC						
## 38	20	150	SNOW	B	18-20	16.0	
A	S						
## 39	20	151	SNOW	B	18-20	22.5	
A	CC						
## 40	20	152	SNOW	B	18-20	12.5	
A	S						
## 41	20	153	SNOW	B	18-20	17.5	
A	CC						
## 42	20	154	SNOW	B	18-20	17.5	
A	CC						
## 43	20	155	SNOW	B	18-20	11.5	
A	S						
## 44	20	156	SNOW	B	18-20	7.5	
B	CV						
## 45	20	157	SNOW	B	18-20	12.0	
B	CV						
## 46	20	158	SNOW	B	18-20	23.5	
B	CC						
## 47	20	161	SNOW	B	18-20	13.5	
A	CV						
## 48	20	162	SNOW	B	18-20	18.0	
A	S						
## 49	20	163	SNOW	B	18-20	31.5	
A	CV						
## 50	20	164	SNOW	B	20-22	19.5	
M	S						
## 51	20	165	SNOW	B	20-22	22.0	
A	CV						
## 52	20	166	SNOW	B	20-22	18.5	
A	S						
## 53	20	167	SNOW	B	20-22	29.5	
A	CC						
## 54	22	177	MONTY	B	10-12	22.5	
A	S						
## 55	23	194	MONTY	A	34-36	4.6	A/
L	CV						
## 56	23	195	MONTY	A	34-36	5.0	A/
L	CV						
## 57	23	196	MONTY	A	34-36	4.0	

A	CC						
## 58	23	197	MONTY	A	34-36	4.0	
A	CV						
## 59	23	203	MONTY	A	36-38	3.3	
A	S						
## 60	23	204	MONTY	A	36-38	4.8	
A	CC						
## 61	23	205	MONTY	A	36-38	5.0	
A	CC						
## 62	23	206	MONTY	A	38-40	7.4	
A	S						
## 63	24	208	MONTY	B	16-18	6.1	A/
L	CC						
## 64	25	247	LONG	A	12-14	3.9	
B	S						
## 65	25	254	LONG	A	14-16	2.9	
A	F						
## 66	25	268	LONG	B	36-38	4.0	A/
L	F						
## 67	25	269	LONG	B	36-38	9.5	
M	S						
## 68	26	282	LONG	B	0-2	16.5	
A	S						
## 69	27	291	LONG	B	0-2	9.0	A/
B	S						
## 70	27	292	LONG	B	0-2	10.2	A/
B	CC						
## 71	27	293	LONG	B	0-2	22.4	
A	S						
## 72	27	294	LONG	B	0-2	4.4	
B	S						
## 73	27	295	LONG	B	0-2	14.9	
B	CV						
## 74	27	296	LONG	B	0-2	5.1	
B	S						
## 75	27	297	LONG	B	32-34	4.6	
A	S						
## 76	27	301	LONG	B	34-36	0.5	
A	F						
## 77	30	307	FISH	B	44-46	35.1	
L	S						
## 78	33	310	CR69	A	42-44	9.5	

M	S						
## 79	33	311	CR69	B	38-40	25.9	
M	F						
## 80	34	312	CAM	A	14-16	15.0	
A	S						
## 81	34	314	CAM	A	20-22	0.9	
A	CC						
## 82	34	315	CAM	A	30-32	0.5	
A	CC						
## 83	34	316	CAM	A	30-32	13.1	
A	CC						
## 84	34	317	CAM	A	30-32	16.3	
A	CC						
## 85	34	318	CAM	A	30-32	34.9	
A	CC						
## 86	34	319	CAM	A	32-34	1.2	
A	CV						
## 87	34	320	CAM	A	34-36	4.0	
A	S						
## 88	34	323	CAM	A	40-42	2.1	
A	CC						
## 89	34	324	CAM	A	40-42	3.3	
A	CC						
## 90	34	325	CAM	A	40-42	4.8	
A	CC						
## 91	34	326	CAM	A	40-42	4.7	A/
L	CC						
## 92	34	331	CAM	A	44-46	6.1	
A	S						
## 93	34	332	CAM	A	46-48	2.4	A/
L	CC						
## 94	34	335	CAM	B	2-4	11.1	
A	F						
## 95	34	336	CAM	B	10-12	2.8	
A	F						
## 96	34	337	CAM	B	12-14	30.5	A/
L	CV						
## 97	34	339	CAM	B	20-22	3.7	
A	CC						
## 98	34	340	CAM	B	38-40	1.5	A/
L	CC						
## 99	34	341	CAM	B	40-42	3.4	

A	S						
## 100	35	343	CAM	B	2-4	16.4	
A	CC						
## 101	36	350	CAM	A	6-8	28.7	
A	S						
## 102	36	351	CAM	A	8-10	9.9	
A	F						
## 103	36	352	CAM	A	8-10	18.8	
A	CC						
## 104	36	357	CAM	A	40-42	5.4	
M	CC						
## 105	36	360	CAM	A	42-44	9.9	
B	S						
## 106	36	361	CAM	A	42-44	13.2	
B	CC						
## 107	36	367	CAM	A	48-50	8.7	B/
M	CC						
## 108	36	368	CAM	A	48-50	8.5	B/
M	CV						
## 109	36	387	CAM	B	40-42	18.6	
B	CC						
## 110	36	388	CAM	B	40-42	15.9	
B	CC						
## 111	36	389	CAM	B	40-42	11.5	
A	S						
## 112	36	391	CAM	B	42-44	6.1	A/
B	CC						
## 113	36	392	CAM	B	42-44	12.4	
B	S						
## 114	36	398	CAM	B	42-44	15.1	A/
B	S						
## 115	36	399	CAM	B	42-44	4.4	
A	S						
## 116	36	401	CAM	B	42-44	3.1	
B	S						
## 117	38	406	CAM	A	4-6	4.1	
B	CC						
## 118	38	419	CAM	A	12-14	3.8	
B	CC						
## 119	38	421	CAM	A	12-14	5.5	
B	CV						
## 120	38	426	CAM	A	12-14	4.4	



B	F							
## 121	38	442	CAM	A	20-22	7.2		
B	CC							
## 122	38	447	CAM	A	22-24	9.4	A/	
B	S							
## 123	38	448	CAM	A	22-24	8.3		
A	S							
## 124	38	449	CAM	A	22-24	4.2		
B	CC							
## 125	38	450	CAM	A	22-24	3.1		
A	CC							
## 126	38	451	CAM	A	22-24	8.1	A/	
B	S							
## 127	38	452	CAM	A	22-24	7.5		
B	CC							
## 128	38	453	CAM	A	22-24	2.0	A/	
B	S							
## 129	38	454	CAM	A	22-24	9.6		
A	CC							
## 130	38	455	CAM	A	26-28	1.9		
A	CV							
## 131	38	456	CAM	A	26-28	26.2		
A	S							
## 132	38	457	CAM	A	32-34	9.6		
B	CV							
## 133	38	464	CAM	A	32-34	3.0		
B	S							
## 134	38	465	CAM	A	32-34	6.5		
B	CC							
## 135	38	466	CAM	A	32-34	11.4		
B	S							
## 136	38	467	CAM	A	32-34	6.3		
B	CV							
## 137	38	469	CAM	A	34-36	15.0		
B	F							
## 138	38	473	CAM	A	34-36	13.0		
B	S							
## 139	38	474	CAM	A	34-36	15.0		
B	CC							
## 140	38	490	CAM	B	4-6	10.4		
A	F							
## 141	38	492	CAM	B	4-6	14.7		

B	S					
## 142	38	494	CAM	B	6-8	7.1
A	CC					
## 143	38	495	CAM	B	18-20	16.0
L	S					
## 144	38	496	CAM	B	20-22	8.5
B	S					
## 145	38	497	CAM	B	20-22	11.5
B	S					
## 146	38	502	CAM	B	20-22	10.8
B	S					
## 147	38	503	CAM	B	20-22	11.7
B	S					
## 148	38	504	CAM	B	20-22	10.0
B	S					
## 149	38	507	CAM	B	28-30	8.7
B	S					
## 150	38	508	CAM	B	28-30	19.7
B	F					
## 151	38	518	CAM	B	34-36	12.1
B	S					
## 152	38	519	CAM	B	34-36	25.9
B	CV					
## 153	38	521	CAM	B	34-36	23.3
B	S					
## 154	38	522	CAM	B	34-36	22.8
B	S					
## 155	38	523	CAM	B	34-36	15.0
B	S					
## 156	38	524	CAM	B	34-36	13.9
B	F					
## 157	38	537	CAM	B	40-42	13.6
B	S					
## 158	38	538	CAM	B	40-42	5.0
B	F					
## 159	38	539	CAM	B	40-42	8.2
B	F					
## 160	38	540	CAM	B	40-42	3.1
B	F					
## 161	38	541	CAM	B	42-44	8.1
B	CV					
## 162	38	542	CAM	B	42-44	2.5

B	F						
## 163	38	543	CAM	B	42-44	6.1	
B	CC						
## 164	38	545	CAM	B	42-44	11.5	
B	CC						
## 165	38	546	CAM	B	42-44	2.5	
B	F						
## 166	38	547	CAM	B	42-44	9.4	
B	F						
## 167	38	548	CAM	B	42-44	3.7	
B	CC						
## 168	38	549	CAM	B	42-44	8.0	
B	S						
## 169	38	550	CAM	B	42-44	7.6	
B	S						
## 170	38	551	CAM	B	42-44	23.2	
B	S						
## 171	38	552	CAM	B	42-44	22.5	
B	S						
## 172	38	553	CAM	B	44-46	3.9	
B	CC						
## 173	38	554	CAM	B	44-46	7.0	
B	CC						
## 174	38	555	CAM	B	44-46	5.1	
B	CC						
## 175	38	556	CAM	B	46-48	3.1	
B	CC						
## 176	38	559	CAM	B	50-52	3.4	
A	CC						
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	S	1	0	51.0	0	1	
LAKE							
## 2	S	0	0	51.0	0	1	
RAWAH							
## 3	S	0	0	51.0	0	0	
RAWAH							
## 4	S	0	0	51.0	0	0	
RAWAH							
## 5	S	0	0	51.0	0	0	
RAWAH							
## 6	S	0	0	51.0	0	0	

RAWAH						
## 7	S	0	0	51.0	0	0
RAWAH						
## 8	S	0	0	51.0	0	0
RAWAH						
## 9	S	0	0	51.0	0	0
RAWAH						
## 10	S	1	0	51.0	0	0
RAWAH						
## 11	S	1	0	51.0	0	0
RAWAH						
## 12	S	1	0	51.0	0	1
RAWAH						
## 13	S	1	0	51.0	0	1
RAWAH						
## 14	S	0	1	51.0	0	0
RAWAH						
## 15	S	0	0	51.0	0	0
RAWAH						
## 16	S	1	0	51.0	0	1
RAWAH						
## 17	S	1	0	51.0	0	0
RAWAH						
## 18	S	1	1	51.0	0	0
RAWAH						
## 19	S	1	1	51.0	0	0
RAWAH						
## 20	S	1	0	51.0	0	0
RAWAH						
## 21	S	1	1	51.0	0	0
BLUE						
## 22	S	1	0	51.0	0	0
BLUE						
## 23	S	1	0	51.0	0	0
BLUE						
## 24	S	1	0	51.0	0	0
BLUE						
## 25	S	1	1	51.0	0	0
RES						
## 26	S	0	0	30.0	0	0
RAWAH						
## 27	S	0	1	51.0	0	0

SNOW						
## 28	S	0	1	51.0	0	0
SNOW						
## 29	S	1	1	51.0	0	0
SNOW						
## 30	S	1	0	51.0	0	0
SNOW						
## 31	S	1	0	51.0	0	0
SNOW						
## 32	S	1	0	51.0	0	0
SNOW						
## 33	S	0	0	51.0	0	1
SNOW						
## 34	S	0	0	51.0	0	1
SNOW						
## 35	S	0	0	51.0	0	1
SNOW						
## 36	S	0	0	51.0	0	0
SNOW						
## 37	S	0	0	51.0	0	0
SNOW						
## 38	S	0	0	51.0	0	0
SNOW						
## 39	S	0	0	51.0	0	1
SNOW						
## 40	S	0	0	51.0	0	1
SNOW						
## 41	S	0	0	51.0	0	1
SNOW						
## 42	S	0	0	51.0	0	1
SNOW						
## 43	S	0	0	51.0	0	1
SNOW						
## 44	S	0	0	51.0	0	1
SNOW						
## 45	S	0	0	51.0	0	1
SNOW						
## 46	S	0	0	51.0	0	1
SNOW						
## 47	S	1	0	51.0	0	1
SNOW						
## 48	S	0	0	51.0	0	1

SNOW						
## 49	S	1	0	51.0	0	1
SNOW						
## 50	S	0	0	51.0	0	1
SNOW						
## 51	S	0	0	51.0	0	1
SNOW						
## 52	S	1	0	51.0	0	1
SNOW						
## 53	S	1	0	51.0	0	1
SNOW						
## 54	S	1	0	51.0	0	0
MONTY						
## 55	S	0	0	51.0	0	0
MONTY						
## 56	S	0	0	51.0	0	0
MONTY						
## 57	S	1	0	51.0	0	0
MONTY						
## 58	S	1	0	51.0	0	0
MONTY						
## 59	S	0	0	51.0	0	0
MONTY						
## 60	S	1	0	51.0	0	0
MONTY						
## 61	S	1	0	51.0	0	0
MONTY						
## 62	S	0	1	51.0	0	0
MONTY						
## 63	S	0	1	51.0	0	0
MONTY						
## 64	S	0	0	51.0	0	0
LONG						
## 65	S	0	0	51.0	0	1
LONG						
## 66	S	0	0	51.0	0	0
LONG						
## 67	S	0	0	51.0	0	0
LONG						
## 68	S	0	0	51.0	0	0
LONG						
## 69	S	0	0	51.0	0	0

LONG						
## 70	S	0	0	51.0	0	0
LONG						
## 71	S	0	0	51.0	0	1
LONG						
## 72	S	0	0	51.0	0	0
LONG						
## 73	S	0	0	51.0	0	1
LONG						
## 74	S	1	0	51.0	0	0
LONG						
## 75	S	0	0	51.0	0	0
LONG						
## 76	S	1	0	51.0	0	0
LONG						
## 77	S	0	0	51.0	1	0
FISH						
## 78	S	0	0	0.1	0	0
CR69						
## 79	S	0	0	0.6	0	0
CR69						
## 80	S	1	0	51.0	0	0
CAM						
## 81	S	0	1	51.0	0	0
CAM						
## 82	S	0	0	51.0	0	0
CAM						
## 83	S	0	0	51.0	0	0
CAM						
## 84	S	0	0	51.0	0	0
CAM						
## 85	S	0	0	51.0	0	0
CAM						
## 86	S	1	1	51.0	0	0
CAM						
## 87	S	0	0	51.0	0	0
CAM						
## 88	S	0	0	51.0	0	0
CAM						
## 89	S	0	0	51.0	0	0
CAM						
## 90	S	0	0	51.0	0	0

CAM						
## 91	S	0	1	51.0	0	0
CAM						
## 92	S	0	1	51.0	0	0
CAM						
## 93	S	0	1	51.0	0	0
CAM						
## 94	S	1	0	51.0	0	0
CAM						
## 95	S	0	0	51.0	0	0
CAM						
## 96	S	0	0	51.0	0	0
CAM						
## 97	S	1	0	51.0	0	0
CAM						
## 98	S	0	0	51.0	0	0
CAM						
## 99	S	0	0	51.0	0	0
CAM						
## 100	S	1	1	51.0	0	0
CAM						
## 101	S	1	0	51.0	0	0
CAM						
## 102	S	1	0	51.0	0	0
CAM						
## 103	S	1	0	51.0	0	0
CAM						
## 104	S	0	1	51.0	0	0
CAM						
## 105	S	0	0	51.0	0	0
CAM						
## 106	S	0	0	51.0	0	0
CAM						
## 107	S	0	0	51.0	0	0
CAM						
## 108	S	1	0	51.0	0	0
CAM						
## 109	S	1	0	51.0	0	1
CAM						
## 110	S	1	0	51.0	0	1
CAM						
## 111	S	1	0	51.0	0	0



CAM						
## 112	S	0	1	51.0	0	0
CAM						
## 113	S	1	0	51.0	0	0
CAM						
## 114	S	1	0	51.0	0	1
CAM						
## 115	S	1	0	51.0	0	1
CAM						
## 116	S	1	0	51.0	0	0
CAM						
## 117	S	0	0	51.0	0	0
CAM						
## 118	S	0	0	51.0	0	0
CAM						
## 119	S	0	0	51.0	0	0
CAM						
## 120	S	0	0	51.0	0	0
CAM						
## 121	S	1	0	51.0	0	0
CAM						
## 122	S	1	0	51.0	0	0
CAM						
## 123	S	10	0	51.0	0	0
CAM						
## 124	S	0	0	51.0	0	0
CAM						
## 125	S	0	0	51.0	0	0
CAM						
## 126	S	1	0	51.0	0	0
CAM						
## 127	S	1	0	51.0	0	0
CAM						
## 128	S	0	0	51.0	0	0
CAM						
## 129	S	1	0	51.0	0	0
CAM						
## 130	S	0	0	51.0	0	0
CAM						
## 131	S	1	0	51.0	0	0
CAM						
## 132	S	1	0	51.0	0	0

CAM						
## 133	S	1	0	51.0	0	0
CAM						
## 134	S	1	0	51.0	0	0
CAM						
## 135	S	1	0	51.0	0	0
CAM						
## 136	S	1	0	51.0	0	0
CAM						
## 137	S	1	1	51.0	0	0
CAM						
## 138	S	0	0	51.0	0	0
CAM						
## 139	S	0	0	51.0	0	0
CAM						
## 140	S	1	0	51.0	0	0
CAM						
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##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
	Elevation	Slope				
## 1	6	39.0	LAKE	427647.0	4493988	
2835	-6					
## 2	7	27.0	RAWAH	427082.0	4499706	
2710	-7					
## 3	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 4	7	30.0	RAWAH	427082.0	4499706	
2710	-7					
## 5	7	21.0	RAWAH	427082.0	4499706	
2710	-7					
## 6	7	17.0	RAWAH	427082.0	4499706	
2710	-7					
## 7	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 8	7	16.0	RAWAH	427082.0	4499706	
2710	-7					
## 9	7	17.0	RAWAH	427082.0	4499706	
2710	-7					
## 10	7	13.0	RAWAH	427082.0	4499706	
2710	-7					
## 11	7	29.0	RAWAH	427082.0	4499706	
2710	-7					
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## 13	7	39.0	RAWAH	427082.0	4499706	
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## 14	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 15	7	16.0	RAWAH	427082.0	4499706	
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## 16	7	34.0	RAWAH	427082.0	4499706	
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## 17	7	45.0	RAWAH	427082.0	4499706	
2710	-7					
## 18	8	9.0	RAWAH	426956.0	4499540	

2724	-9					
## 19		8	24.0	RAWAH	426956.0	4499540
2724	-9					
## 20		8	9.0	RAWAH	426956.0	4499540
2724	-9					
## 21		11	29.0	BLUE	427118.0	4493949
2901	-10					
## 22		12	28.0	BLUE	427290.0	4493596
2926	-11					
## 23		12	16.0	BLUE	427290.0	4493596
2926	-11					
## 24		12	6.0	BLUE	427290.0	4493596
2926	-11					
## 25		14	10.0	RES	426126.0	4490180
3040	-7					
## 26		17	6.0	RAWAH	426806.8	4499771
2715	-6					
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2959	-10					
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## 29		20	17.0	SNOW	426996.6	4492304
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## 30		20	20.5	SNOW	426996.6	4492304
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## 31		20	18.5	SNOW	426996.6	4492304
2959	-10					
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2959	-10					
## 33		20	11.5	SNOW	426996.6	4492304
2959	-10					
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2959	-10					
## 35		20	8.0	SNOW	426996.6	4492304
2959	-10					
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2959	-10					
## 37		20	1.5	SNOW	426996.6	4492304
2959	-10					
## 38		20	16.0	SNOW	426996.6	4492304
2959	-10					
## 39		20	22.5	SNOW	426996.6	4492304

2959	-10					
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2959	-10					
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## 46		20	23.5	SNOW	426996.6	4492304
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## 47		20	13.5	SNOW	426996.6	4492304
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3206	-8					
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3259	-13					
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3259	-13					
## 57		23	4.0	MONTY	424655.0	4489019
3259	-13					
## 58		23	4.0	MONTY	424655.0	4489019
3259	-13					
## 59		23	3.3	MONTY	424655.0	4489019
3259	-13					
## 60		23	4.8	MONTY	424655.0	4489019

3259	-13					
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3259	-13					
## 62		23	7.4	MONTY	424655.0	4489019
3259	-13					
## 63		24	6.1	MONTY	424640.0	4488778
3199	-12					
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3068	-7					
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3068	-7					
## 66		25	4.0	LONG	431465.0	4490417
3068	-7					
## 67		25	9.5	LONG	431465.0	4490417
3068	-7					
## 68		26	16.5	LONG	431200.0	4490450
3099	-48					
## 69		27	9.0	LONG	430929.0	4490476
3090	-11					
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3090	-11					
## 71		27	22.4	LONG	430929.0	4490476
3090	-11					
## 72		27	4.4	LONG	430929.0	4490476
3090	-11					
## 73		27	14.9	LONG	430929.0	4490476
3090	-11					
## 74		27	5.1	LONG	430929.0	4490476
3090	-11					
## 75		27	4.6	LONG	430929.0	4490476
3090	-11					
## 76		27	0.5	LONG	430929.0	4490476
3090	-11					
## 77		30	35.1	FISH	455545.0	4496202
2462	-5					
## 78		33	9.5	CR69	451026.0	4505247
2596	-10					
## 79		33	25.9	CR69	451026.0	4505247
2596	-10					
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3106	-9					
## 81		34	0.9	CAM	434425.0	4485996

3106	-9					
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3106	-9					
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## 84		34	16.3	CAM	434425.0	4485996
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## 87		34	4.0	CAM	434425.0	4485996
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## 95		34	2.8	CAM	434425.0	4485996
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3106	-9					
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## 105		36	9.9	CAM	434021.0	4485004
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Transect.B						
## 1	173		CC			18
108						
## 2	30		F			252
162						
## 3	30		F			252
162						
## 4	30		F			252
162						
## 5	30		F			252
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## 6	30		F			252
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## 7	30		F			252
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## 8	30		F			252
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## 9	30		F			252

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## 10	30		F	252
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## 12	30		F	252
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## 13	30		F	252
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## 15	30		F	252
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## 16	30		F	252
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## 17	30		F	252
162				
## 18	340		F	60
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## 19	340		F	60
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## 20	340		F	60
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## 21	92		F	290
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## 22	32		F	250
159				
## 23	32		F	250
159				
## 24	32		F	250
159				
## 25	342		F	276
186				
## 26	108		F/S	142
228				
## 27	12		CV	228
312				
## 28	12		CV	228
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## 29	12		CV	228
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## 30	12		CV	228

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## 51	12	CV	228

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312			
## 54	60	CC	60
33			
## 55	194	F/S	46
316			
## 56	194	F/S	46
316			
## 57	194	F/S	46
316			
## 58	194	F/S	46
316			
## 59	194	F/S	46
316			
## 60	194	F/S	46
316			
## 61	194	F/S	46
316			
## 62	194	F/S	46
316			
## 63	160	F/S	184
90			
## 64	130	F	222
310			
## 65	130	F	222
310			
## 66	130	F	222
310			
## 67	130	F	222
310			
## 68	240	CC	210
120			
## 69	120	S	280
110			
## 70	120	S	280
110			
## 71	120	S	280
110			
## 72	120	S	280

110			
## 73	120	S	280
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## 74	120	S	280
110			
## 75	120	S	280
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## 76	120	S	280
110			
## 77	58	F	146
54			
## 78	294	S	114
200			
## 79	294	S	114
200			
## 80	194	F/S	274
180			
## 81	194	F/S	274
180			
## 82	194	F/S	274
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## 83	194	F/S	274
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## 84	194	F/S	274
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## 85	194	F/S	274
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## 86	194	F/S	274
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## 87	194	F/S	274
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## 88	194	F/S	274
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## 90	194	F/S	274
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## 91	194	F/S	274
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## 92	194	F/S	274
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## 93	194	F/S	274



180			
## 94	194	F/S	274
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## 95	194	F/S	274
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## 96	194	F/S	274
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## 97	194	F/S	274
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## 98	194	F/S	274
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## 99	194	F/S	274
180			
## 100	90	CC	72
164			
## 101	216	F/S	166
74			
## 102	216	F/S	166
74			
## 103	216	F/S	166
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## 104	216	F/S	166
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## 105	216	F/S	166
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## 106	216	F/S	166
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## 107	216	F/S	166
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## 108	216	F/S	166
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## 109	216	F/S	166
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## 110	216	F/S	166
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## 111	216	F/S	166
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## 112	216	F/S	166
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## 113	216	F/S	166
74			
## 114	216	F/S	166

74				
##	115	216	F/S	166
74				
##	116	216	F/S	166
74				
##	117	190	F/S	56
142				
##	118	190	F/S	56
142				
##	119	190	F/S	56
142				
##	120	190	F/S	56
142				
##	121	190	F/S	56
142				
##	122	190	F/S	56
142				
##	123	190	F/S	56
142				
##	124	190	F/S	56
142				
##	125	190	F/S	56
142				
##	126	190	F/S	56
142				
##	127	190	F/S	56
142				
##	128	190	F/S	56
142				
##	129	190	F/S	56
142				
##	130	190	F/S	56
142				
##	131	190	F/S	56
142				
##	132	190	F/S	56
142				
##	133	190	F/S	56
142				
##	134	190	F/S	56
142				
##	135	190	F/S	56

142				
## 136	190	F/S		56
142				
## 137	190	F/S		56
142				
## 138	190	F/S		56
142				
## 139	190	F/S		56
142				
## 140	190	F/S		56
142				
## 141	190	F/S		56
142				
## 142	190	F/S		56
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## 143	190	F/S		56
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## 144	190	F/S		56
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## 145	190	F/S		56
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## 146	190	F/S		56
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## 147	190	F/S		56
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## 148	190	F/S		56
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## 149	190	F/S		56
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## 150	190	F/S		56
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## 151	190	F/S		56
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## 152	190	F/S		56
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## 153	190	F/S		56
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## 154	190	F/S		56
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## 155	190	F/S		56
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## 156	190	F/S		56

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## 157	190	F/S		56
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## 158	190	F/S		56
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## 159	190	F/S		56
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## 160	190	F/S		56
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## 161	190	F/S		56
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## 162	190	F/S		56
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## 163	190	F/S		56
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## 164	190	F/S		56
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## 165	190	F/S		56
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## 166	190	F/S		56
142				
## 167	190	F/S		56
142				
## 168	190	F/S		56
142				
## 169	190	F/S		56
142				
## 170	190	F/S		56
142				
## 171	190	F/S		56
142				
## 172	190	F/S		56
142				
## 173	190	F/S		56
142				
## 174	190	F/S		56
142				
## 175	190	F/S		56
142				
## 176	190	F/S		56
142				

##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen
## 1	51	51.00
## 2	51	25.00
## 3	51	25.00
## 4	51	25.00
## 5	51	25.00
## 6	51	25.00
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## 77	51	51.00
## 78	51	9.95
## 79	51	9.95

## 80	51	51.00
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## 140	51	51.00
## 141	51	51.00
## 142	51	51.00
## 143	51	51.00
## 144	51	51.00
## 145	51	51.00
## 146	51	51.00
## 147	51	51.00
## 148	51	51.00
## 149	51	51.00
## 150	51	51.00
## 151	51	51.00
## 152	51	51.00
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## 154	51	51.00
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## 158	51	51.00
## 159	51	51.00



## 160	51	51.00
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## 167	51	51.00
## 168	51	51.00
## 169	51	51.00
## 170	51	51.00
## 171	51	51.00
## 172	51	51.00
## 173	51	51.00
## 174	51	51.00
## 175	51	51.00
## 176	51	51.00

F

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.	
## 1	1	2	ELKHORN	A	38-40	30.0
M	F					
## 2	1	3	ELKHORN	B	12-14	25.0
M	F					
## 3	6	8	LAKE	A	2-4	44.0
M	CC					
## 4	6	9	LAKE	A	14-16	15.0
A	F					
## 5	6	10	LAKE	A	14-16	6.0
A	CC					
## 6	6	11	LAKE	A	14-16	3.5
A	F					
## 7	6	13	LAKE	A	16-18	18.0
M	F					
## 8	7	28	RAWAH	A	16-18	21.0
M	F					A/
## 9	7	29	RAWAH	B	14-16	22.0
A	F					
## 10	7	30	RAWAH	B	14-16	19.0

A	F					
## 11	7	31	RAWAH	B	14-16	26.0
A	F					
## 12	7	32	RAWAH	B	14-16	24.0
A	F					
## 13	7	40	RAWAH	B	34-36	23.0
A	S					
## 14	7	43	RAWAH	B	36-38	27.0
M	CC					
## 15	7	44	RAWAH	B	36-38	14.0
A	F					
## 16	7	45	RAWAH	B	36-38	20.0
A	F					
## 17	7	46	RAWAH	B	38-40	26.0
M	F					
## 18	7	47	RAWAH	B	38-40	30.0
M	F					
## 19	7	48	RAWAH	B	38-40	54.0
M	F					
## 20	7	49	RAWAH	B	40-42	26.0
A	CC					
## 21	7	63	RAWAH	B	42-44	30.0
W	S					
## 22	7	68	RAWAH	B	42-44	25.0
W	F					
## 23	7	69	RAWAH	B	42-44	25.0
M	F					
## 24	7	70	RAWAH	B	42-44	17.0
M	F					
## 25	7	75	RAWAH	B	42-44	40.0
M	F					
## 26	7	79	RAWAH	B	44-46	51.0
M	F					
## 27	7	81	RAWAH	B	46-48	29.0
M	F					
## 28	7	82	RAWAH	B	46-48	8.0
M	CC					
## 29	7	83	RAWAH	B	46-48	43.0
M	S					
## 30	7	84	RAWAH	B	46-48	15.0
M	S					
## 31	7	85	RAWAH	B	46-48	47.0

M	CC						
## 32	7	86	RAWAH	B	46-48	32.0	
M	CC						
## 33	7	87	RAWAH	B	46-48	34.0	
B	F						
## 34	7	88	RAWAH	B	48-50	17.0	
M	CV						
## 35	7	89	RAWAH	B	48-50	26.0	
M	CV						
## 36	19	107	RAWAH	A	0-2	14.0	
A	CC						
## 37	20	137	SNOW	B	14-16	17.0	L/
M	F						
## 38	20	160	SNOW	B	18-20	9.5	
A	CC						
## 39	21	171	LONG	A	48-50	21.0	A/
B	CC						
## 40	21	175	LONG	A	48-50	14.5	A/
L	CC						
## 41	23	183	MONTY	A	32-34	15.5	
A	CV						
## 42	25	209	LONG	A	0-2	4.2	
A	F						
## 43	25	210	LONG	A	2-4	4.5	
L	F						
## 44	25	211	LONG	A	2-4	6.8	
L	CC						
## 45	25	212	LONG	A	4-6	8.1	A/
L	CC						
## 46	25	213	LONG	A	6-8	6.1	
B	CV						
## 47	25	214	LONG	A	6-8	6.0	
B	CC						
## 48	25	215	LONG	A	6-8	2.6	
B	CC						
## 49	25	216	LONG	A	6-8	3.0	
B	CC						
## 50	25	217	LONG	A	6-8	5.0	
B	CC						
## 51	25	218	LONG	A	6-8	1.5	
B	F						
## 52	25	226	LONG	A	6-8	5.3	

B	CV						
## 53	25	227	LONG	A	6-8	5.0	
B	CC						
## 54	25	229	LONG	A	6-8	3.1	
B	CC						
## 55	25	234	LONG	A	8-10	7.9	A/
B	CC						
## 56	25	235	LONG	A	8-10	4.6	
B	CV						
## 57	25	237	LONG	A	8-10	7.1	
M	CV						
## 58	25	238	LONG	A	8-10	3.2	
M	CC						
## 59	25	248	LONG	A	12-14	4.0	
B	CC						
## 60	25	253	LONG	A	14-16	3.5	
A	F						
## 61	25	266	LONG	A	24-26	4.0	
M	F						
## 62	25	267	LONG	B	36-38	7.0	
M	S						
## 63	26	272	LONG	A	24-26	13.2	
A	S						
## 64	26	273	LONG	A	26-28	4.7	
A	F						
## 65	26	277	LONG	A	30-32	9.4	A/
L	F						
## 66	27	288	LONG	A	0-2	5.6	
A	F						
## 67	27	289	LONG	A	0-2	6.5	
A	F						
## 68	27	299	LONG	B	34-36	2.0	
A	F						
## 69	27	300	LONG	B	34-36	1.0	
A	F						
## 70	28	302	FISH	A	24-26	15.0	
M	F						
## 71	30	306	FISH	A	34-36	16.0	
L	F						
## 72	34	313	CAM	A	18-20	1.1	
M	CC						
## 73	36	358	CAM	A	42-44	5.1	

B	CC						
## 74	36	359	CAM	A	42-44	2.9	
B	CV						
## 75	36	375	CAM	B	36-38	13.0	B/
L	CC						
## 76	36	376	CAM	B	36-38	10.5	
B	CC						
## 77	36	377	CAM	B	36-38	30.3	A/
B	F						
## 78	36	378	CAM	B	36-38	29.6	
B	CV						
## 79	36	379	CAM	B	36-38	21.7	
B	F						
## 80	36	381	CAM	B	36-38	9.6	
A	F						
## 81	38	405	CAM	A	0-2	18.6	A/
B	CV						
## 82	38	413	CAM	A	4-6	3.5	
B	CC						
## 83	38	429	CAM	A	16-18	8.4	
B	CC						
## 84	38	430	CAM	A	16-18	18.3	
B	CC						
## 85	38	431	CAM	A	16-18	6.1	
B	CC						
## 86	38	437	CAM	A	16-18	5.1	
B	F						
## 87	38	468	CAM	A	34-36	9.8	
B	CC						
## 88	38	470	CAM	A	34-36	7.5	
B	CC						
## 89	38	471	CAM	A	34-36	2.9	
B	F						
## 90	38	472	CAM	A	34-36	16.9	
B	CC						
## 91	38	476	CAM	A	34-36	11.5	
B	F						
## 92	38	477	CAM	A	34-36	12.8	
B	F						
## 93	38	478	CAM	A	34-36	17.6	
B	F						
## 94	38	479	CAM	A	34-36	8.3	

B	F							
## 95	38	480	CAM	A	34-36	3.8		
B	F							
## 96	38	481	CAM	A	34-36	16.0		
B	CC							
## 97	38	483	CAM	A	42-44	4.6		
B	CC							
## 98	38	484	CAM	A	48-50	6.2		
B	F							
## 99	38	485	CAM	A	48-50	9.5		
B	F							
## 100	38	486	CAM	A	48-50	3.2		
B	F							
## 101	38	487	CAM	A	48-50	5.1		
B	CC							
## 102	38	498	CAM	B	20-22	7.9		
B	F							
## 103	38	506	CAM	B	22-24	2.9		
B	F							
## 104	38	510	CAM	B	28-30	1.2		
B	F							
## 105	38	511	CAM	B	30-32	1.0		
B	F							
## 106	38	512	CAM	B	30-32	0.5		
B	F							
## 107	38	513	CAM	B	28-30	14.6	A/	
B	S							
## 108	38	514	CAM	B	30-32	4.4	A/	
B	F							
## 109	38	515	CAM	B	30-32	1.5		
B	F							
## 110	38	544	CAM	B	42-44	4.9		
B	F							
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	site.name	
## 1	F	0	0	1.3	0	0	ELKHORN	
## 2	F	0	0	0.9	0	0	ELKHORN	
## 3	F	0	0	51.0	0	0	LAKE	
## 4	F	1	0	51.0	0	1		

LAKE						
## 5	F	1	0	51.0	0	0
LAKE						
## 6	F	1	0	51.0	0	0
LAKE						
## 7	F	0	0	51.0	0	0
LAKE						
## 8	F	1	0	51.0	0	0
RAWAH						
## 9	F	0	0	51.0	0	1
RAWAH						
## 10	F	0	0	51.0	0	1
RAWAH						
## 11	F	0	0	51.0	0	0
RAWAH						
## 12	F	0	1	51.0	0	0
RAWAH						
## 13	F	1	0	51.0	0	0
RAWAH						
## 14	F	0	0	51.0	0	0
RAWAH						
## 15	F	1	0	51.0	0	0
RAWAH						
## 16	F	1	0	51.0	0	1
RAWAH						
## 17	F	1	0	51.0	0	0
RAWAH						
## 18	F	0	0	51.0	0	0
RAWAH						
## 19	F	0	0	51.0	0	0
RAWAH						
## 20	F	1	0	51.0	0	0
RAWAH						
## 21	F	1	0	51.0	0	0
RAWAH						
## 22	F	1	0	51.0	0	0
RAWAH						
## 23	F	0	0	51.0	0	0
RAWAH						
## 24	F	0	0	51.0	0	0
RAWAH						
## 25	F	0	0	51.0	0	0

RAWAH						
## 26	F	0	0	51.0	0	0
RAWAH						
## 27	F	0	0	51.0	0	1
RAWAH						
## 28	F	1	0	51.0	0	1
RAWAH						
## 29	F	1	0	51.0	0	0
RAWAH						
## 30	F	1	0	51.0	0	0
RAWAH						
## 31	F	0	0	51.0	0	0
RAWAH						
## 32	F	0	0	51.0	0	0
RAWAH						
## 33	F	0	0	51.0	0	0
RAWAH						
## 34	F	0	1	51.0	0	1
RAWAH						
## 35	F	0	1	51.0	0	0
RAWAH						
## 36	F	1	0	51.0	0	0
RAWAH						
## 37	F	0	0	51.0	0	0
SNOW						
## 38	F	1	1	51.0	0	1
SNOW						
## 39	F	1	0	51.0	0	1
LONG						
## 40	F	1	0	51.0	0	0
LONG						
## 41	F	1	1	51.0	0	0
MONTY						
## 42	F	1	0	51.0	0	1
LONG						
## 43	F	0	0	51.0	0	0
LONG						
## 44	F	0	1	51.0	0	0
LONG						
## 45	F	0	1	51.0	0	0
LONG						
## 46	F	0	1	51.0	0	0



LONG						
## 47	F	0	0	51.0	0	0
LONG						
## 48	F	0	0	51.0	0	0
LONG						
## 49	F	0	0	51.0	0	0
LONG						
## 50	F	0	0	51.0	0	0
LONG						
## 51	F	0	0	51.0	0	0
LONG						
## 52	F	0	0	51.0	0	0
LONG						
## 53	F	0	0	51.0	0	0
LONG						
## 54	F	0	0	51.0	0	0
LONG						
## 55	F	0	1	51.0	0	0
LONG						
## 56	F	0	0	51.0	0	0
LONG						
## 57	F	0	0	51.0	0	0
LONG						
## 58	F	1	0	51.0	0	0
LONG						
## 59	F	0	0	51.0	0	0
LONG						
## 60	F	1	0	51.0	0	1
LONG						
## 61	F	0	0	51.0	0	1
LONG						
## 62	F	0	0	51.0	0	0
LONG						
## 63	F	0	0	51.0	0	0
LONG						
## 64	F	0	0	51.0	0	1
LONG						
## 65	F	1	0	51.0	0	1
LONG						
## 66	F	0	0	51.0	0	1
LONG						
## 67	F	0	0	51.0	0	0

LONG						
## 68	F	1	0	51.0	0	0
LONG						
## 69	F	1	0	51.0	0	0
LONG						
## 70	F	0	0	7.0	0	0
FISH						
## 71	F	1	0	51.0	0	1
FISH						
## 72	F	0	0	51.0	0	0
CAM						
## 73	F	0	1	51.0	0	0
CAM						
## 74	F	0	1	51.0	0	0
CAM						
## 75	F	1	0	51.0	0	0
CAM						
## 76	F	1	0	51.0	0	1
CAM						
## 77	F	1	0	51.0	0	0
CAM						
## 78	F	1	0	51.0	0	0
CAM						
## 79	F	0	0	51.0	0	0
CAM						
## 80	F	0	0	51.0	0	0
CAM						
## 81	F	1	0	51.0	0	0
CAM						
## 82	F	1	0	51.0	0	0
CAM						
## 83	F	0	0	51.0	0	1
CAM						
## 84	F	0	0	51.0	0	0
CAM						
## 85	F	0	0	51.0	0	1
CAM						
## 86	F	1	0	51.0	0	1
CAM						
## 87	F	1	0	51.0	0	0
CAM						
## 88	F	1	0	51.0	0	0

CAM						
## 89	F	1	0	51.0	0	0
CAM						
## 90	F	1	0	51.0	0	0
CAM						
## 91	F	0	0	51.0	0	0
CAM						
## 92	F	0	0	51.0	0	0
CAM						
## 93	F	0	0	51.0	0	0
CAM						
## 94	F	1	0	51.0	0	1
CAM						
## 95	F	1	0	51.0	0	0
CAM						
## 96	F	0	0	51.0	0	0
CAM						
## 97	F	0	0	51.0	0	0
CAM						
## 98	F	0	0	51.0	0	0
CAM						
## 99	F	0	0	51.0	0	0
CAM						
## 100	F	0	0	51.0	0	0
CAM						
## 101	F	0	0	51.0	0	0
CAM						
## 102	F	1	0	51.0	0	0
CAM						
## 103	F	1	0	51.0	0	0
CAM						
## 104	F	1	0	51.0	0	0
CAM						
## 105	F	1	0	51.0	0	0
CAM						
## 106	F	1	0	51.0	0	0
CAM						
## 107	F	1	0	51.0	0	0
CAM						
## 108	F	1	1	51.0	0	0
CAM						
## 109	F	1	1	51.0	0	0

CAM						
## 110	F	0	0	51.0	0	0
CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
Elevation Slope						
## 1	1	30.0	ELKHORN	447029.0	4510687	
2712	4					
## 2	1	25.0	ELKHORN	447029.0	4510687	
2712	4					
## 3	6	44.0	LAKE	427647.0	4493988	
2835	-6					
## 4	6	15.0	LAKE	427647.0	4493988	
2835	-6					
## 5	6	6.0	LAKE	427647.0	4493988	
2835	-6					
## 6	6	3.5	LAKE	427647.0	4493988	
2835	-6					
## 7	6	18.0	LAKE	427647.0	4493988	
2835	-6					
## 8	7	21.0	RAWAH	427082.0	4499706	
2710	-7					
## 9	7	22.0	RAWAH	427082.0	4499706	
2710	-7					
## 10	7	19.0	RAWAH	427082.0	4499706	
2710	-7					
## 11	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 12	7	24.0	RAWAH	427082.0	4499706	
2710	-7					
## 13	7	23.0	RAWAH	427082.0	4499706	
2710	-7					
## 14	7	27.0	RAWAH	427082.0	4499706	
2710	-7					
## 15	7	14.0	RAWAH	427082.0	4499706	
2710	-7					
## 16	7	20.0	RAWAH	427082.0	4499706	
2710	-7					
## 17	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 18	7	30.0	RAWAH	427082.0	4499706	
2710	-7					
## 19	7	54.0	RAWAH	427082.0	4499706	

2710	-7					
## 20		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	40.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	51.0	RAWAH	427082.0	4499706
2710	-7					
## 27		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 28		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 29		7	43.0	RAWAH	427082.0	4499706
2710	-7					
## 30		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 31		7	47.0	RAWAH	427082.0	4499706
2710	-7					
## 32		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 33		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 34		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 35		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 36		19	14.0	RAWAH	427155.5	4498773
2751	-10					
## 37		20	17.0	SNOW	426996.6	4492304
2959	-10					
## 38		20	9.5	SNOW	426996.6	4492304
2959	-10					
## 39		21	21.0	LONG	429815.3	4490511
3029	-1					
## 40		21	14.5	LONG	429815.3	4490511

3029	-1					
## 41		23	15.5	MONTY	424655.0	4489019
3259	-13					
## 42		25	4.2	LONG	431465.0	4490417
3068	-7					
## 43		25	4.5	LONG	431465.0	4490417
3068	-7					
## 44		25	6.8	LONG	431465.0	4490417
3068	-7					
## 45		25	8.1	LONG	431465.0	4490417
3068	-7					
## 46		25	6.1	LONG	431465.0	4490417
3068	-7					
## 47		25	6.0	LONG	431465.0	4490417
3068	-7					
## 48		25	2.6	LONG	431465.0	4490417
3068	-7					
## 49		25	3.0	LONG	431465.0	4490417
3068	-7					
## 50		25	5.0	LONG	431465.0	4490417
3068	-7					
## 51		25	1.5	LONG	431465.0	4490417
3068	-7					
## 52		25	5.3	LONG	431465.0	4490417
3068	-7					
## 53		25	5.0	LONG	431465.0	4490417
3068	-7					
## 54		25	3.1	LONG	431465.0	4490417
3068	-7					
## 55		25	7.9	LONG	431465.0	4490417
3068	-7					
## 56		25	4.6	LONG	431465.0	4490417
3068	-7					
## 57		25	7.1	LONG	431465.0	4490417
3068	-7					
## 58		25	3.2	LONG	431465.0	4490417
3068	-7					
## 59		25	4.0	LONG	431465.0	4490417
3068	-7					
## 60		25	3.5	LONG	431465.0	4490417
3068	-7					
## 61		25	4.0	LONG	431465.0	4490417

3068	-7					
## 62		25	7.0	LONG	431465.0	4490417
3068	-7					
## 63		26	13.2	LONG	431200.0	4490450
3099	-48					
## 64		26	4.7	LONG	431200.0	4490450
3099	-48					
## 65		26	9.4	LONG	431200.0	4490450
3099	-48					
## 66		27	5.6	LONG	430929.0	4490476
3090	-11					
## 67		27	6.5	LONG	430929.0	4490476
3090	-11					
## 68		27	2.0	LONG	430929.0	4490476
3090	-11					
## 69		27	1.0	LONG	430929.0	4490476
3090	-11					
## 70		28	15.0	FISH	454709.0	4496418
2571	-5					
## 71		30	16.0	FISH	455545.0	4496202
2462	-5					
## 72		34	1.1	CAM	434425.0	4485996
3106	-9					
## 73		36	5.1	CAM	434021.0	4485004
3020	-10					
## 74		36	2.9	CAM	434021.0	4485004
3020	-10					
## 75		36	13.0	CAM	434021.0	4485004
3020	-10					
## 76		36	10.5	CAM	434021.0	4485004
3020	-10					
## 77		36	30.3	CAM	434021.0	4485004
3020	-10					
## 78		36	29.6	CAM	434021.0	4485004
3020	-10					
## 79		36	21.7	CAM	434021.0	4485004
3020	-10					
## 80		36	9.6	CAM	434021.0	4485004
3020	-10					
## 81		38	18.6	CAM	434173.0	4486246
3154	-4					
## 82		38	3.5	CAM	434173.0	4486246

3154	-4					
## 83		38	8.4	CAM	434173.0	4486246
3154	-4					
## 84		38	18.3	CAM	434173.0	4486246
3154	-4					
## 85		38	6.1	CAM	434173.0	4486246
3154	-4					
## 86		38	5.1	CAM	434173.0	4486246
3154	-4					
## 87		38	9.8	CAM	434173.0	4486246
3154	-4					
## 88		38	7.5	CAM	434173.0	4486246
3154	-4					
## 89		38	2.9	CAM	434173.0	4486246
3154	-4					
## 90		38	16.9	CAM	434173.0	4486246
3154	-4					
## 91		38	11.5	CAM	434173.0	4486246
3154	-4					
## 92		38	12.8	CAM	434173.0	4486246
3154	-4					
## 93		38	17.6	CAM	434173.0	4486246
3154	-4					
## 94		38	8.3	CAM	434173.0	4486246
3154	-4					
## 95		38	3.8	CAM	434173.0	4486246
3154	-4					
## 96		38	16.0	CAM	434173.0	4486246
3154	-4					
## 97		38	4.6	CAM	434173.0	4486246
3154	-4					
## 98		38	6.2	CAM	434173.0	4486246
3154	-4					
## 99		38	9.5	CAM	434173.0	4486246
3154	-4					
## 100		38	3.2	CAM	434173.0	4486246
3154	-4					
## 101		38	5.1	CAM	434173.0	4486246
3154	-4					
## 102		38	7.9	CAM	434173.0	4486246
3154	-4					
## 103		38	2.9	CAM	434173.0	4486246



3154	-4					
## 104		38	1.2	CAM	434173.0	4486246
3154	-4					
## 105		38	1.0	CAM	434173.0	4486246
3154	-4					
## 106		38	0.5	CAM	434173.0	4486246
3154	-4					
## 107		38	14.6	CAM	434173.0	4486246
3154	-4					
## 108		38	4.4	CAM	434173.0	4486246
3154	-4					
## 109		38	1.5	CAM	434173.0	4486246
3154	-4					
## 110		38	4.9	CAM	434173.0	4486246
3154	-4					
##	Aspect Topographic.Position Transect.A..ORIENTATION.DEGREES.					
Transect.B						
## 1	88			CC		NA
NA						
## 2	88			CC		NA
NA						
## 3	173			CC		18
108						
## 4	173			CC		18
108						
## 5	173			CC		18
108						
## 6	173			CC		18
108						
## 7	173			CC		18
108						
## 8	30			F		252
162						
## 9	30			F		252
162						
## 10	30			F		252
162						
## 11	30			F		252
162						
## 12	30			F		252
162						
## 13	30			F		252

162				
## 14	30		F	252
162				
## 15	30		F	252
162				
## 16	30		F	252
162				
## 17	30		F	252
162				
## 18	30		F	252
162				
## 19	30		F	252
162				
## 20	30		F	252
162				
## 21	30		F	252
162				
## 22	30		F	252
162				
## 23	30		F	252
162				
## 24	30		F	252
162				
## 25	30		F	252
162				
## 26	30		F	252
162				
## 27	30		F	252
162				
## 28	30		F	252
162				
## 29	30		F	252
162				
## 30	30		F	252
162				
## 31	30		F	252
162				
## 32	30		F	252
162				
## 33	30		F	252
162				
## 34	30		F	252

162			
## 35	30	F	252
162			
## 36	84	F/S	356
264			
## 37	12	CV	228
312			
## 38	12	CV	228
312			
## 39	298	CC	288
210			
## 40	298	CC	288
210			
## 41	194	F/S	46
316			
## 42	130	F	222
310			
## 43	130	F	222
310			
## 44	130	F	222
310			
## 45	130	F	222
310			
## 46	130	F	222
310			
## 47	130	F	222
310			
## 48	130	F	222
310			
## 49	130	F	222
310			
## 50	130	F	222
310			
## 51	130	F	222
310			
## 52	130	F	222
310			
## 53	130	F	222
310			
## 54	130	F	222
310			
## 55	130	F	222

310			
## 56	130	F	222
310			
## 57	130	F	222
310			
## 58	130	F	222
310			
## 59	130	F	222
310			
## 60	130	F	222
310			
## 61	130	F	222
310			
## 62	130	F	222
310			
## 63	240	CC	210
120			
## 64	240	CC	210
120			
## 65	240	CC	210
120			
## 66	120	S	280
110			
## 67	120	S	280
110			
## 68	120	S	280
110			
## 69	120	S	280
110			
## 70	286	CC	106
190			
## 71	58	F	146
54			
## 72	194	F/S	274
180			
## 73	216	F/S	166
74			
## 74	216	F/S	166
74			
## 75	216	F/S	166
74			
## 76	216	F/S	166

74				
## 77	216	F/S		166
74				
## 78	216	F/S		166
74				
## 79	216	F/S		166
74				
## 80	216	F/S		166
74				
## 81	190	F/S		56
142				
## 82	190	F/S		56
142				
## 83	190	F/S		56
142				
## 84	190	F/S		56
142				
## 85	190	F/S		56
142				
## 86	190	F/S		56
142				
## 87	190	F/S		56
142				
## 88	190	F/S		56
142				
## 89	190	F/S		56
142				
## 90	190	F/S		56
142				
## 91	190	F/S		56
142				
## 92	190	F/S		56
142				
## 93	190	F/S		56
142				
## 94	190	F/S		56
142				
## 95	190	F/S		56
142				
## 96	190	F/S		56
142				
## 97	190	F/S		56

142			
## 98	190	F/S	56
142			
## 99	190	F/S	56
142			
## 100	190	F/S	56
142			
## 101	190	F/S	56
142			
## 102	190	F/S	56
142			
## 103	190	F/S	56
142			
## 104	190	F/S	56
142			
## 105	190	F/S	56
142			
## 106	190	F/S	56
142			
## 107	190	F/S	56
142			
## 108	190	F/S	56
142			
## 109	190	F/S	56
142			
## 110	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	7.0	
## 2	51	7.0	
## 3	51	51.0	
## 4	51	51.0	
## 5	51	51.0	
## 6	51	51.0	
## 7	51	51.0	
## 8	51	25.0	
## 9	51	25.0	
## 10	51	25.0	
## 11	51	25.0	
## 12	51	25.0	
## 13	51	25.0	

## 14	51	25.0
## 15	51	25.0
## 16	51	25.0
## 17	51	25.0
## 18	51	25.0
## 19	51	25.0
## 20	51	25.0
## 21	51	25.0
## 22	51	25.0
## 23	51	25.0
## 24	51	25.0
## 25	51	25.0
## 26	51	25.0
## 27	51	25.0
## 28	51	25.0
## 29	51	25.0
## 30	51	25.0
## 31	51	25.0
## 32	51	25.0
## 33	51	25.0
## 34	51	25.0
## 35	51	25.0
## 36	51	35.0
## 37	51	51.0
## 38	51	51.0
## 39	65	51.0
## 40	65	51.0
## 41	51	51.0
## 42	51	51.0
## 43	51	51.0
## 44	51	51.0
## 45	51	51.0
## 46	51	51.0
## 47	51	51.0
## 48	51	51.0
## 49	51	51.0
## 50	51	51.0
## 51	51	51.0
## 52	51	51.0
## 53	51	51.0

## 54	51	51.0
## 55	51	51.0
## 56	51	51.0
## 57	51	51.0
## 58	51	51.0
## 59	51	51.0
## 60	51	51.0
## 61	51	51.0
## 62	51	51.0
## 63	51	51.0
## 64	51	51.0
## 65	51	51.0
## 66	51	51.0
## 67	51	51.0
## 68	51	51.0
## 69	51	51.0
## 70	51	5.4
## 71	51	51.0
## 72	51	51.0
## 73	51	51.0
## 74	51	51.0
## 75	51	51.0
## 76	51	51.0
## 77	51	51.0
## 78	51	51.0
## 79	51	51.0
## 80	51	51.0
## 81	51	51.0
## 82	51	51.0
## 83	51	51.0
## 84	51	51.0
## 85	51	51.0
## 86	51	51.0
## 87	51	51.0
## 88	51	51.0
## 89	51	51.0
## 90	51	51.0
## 91	51	51.0
## 92	51	51.0
## 93	51	51.0



## 94	51	51.0
## 95	51	51.0
## 96	51	51.0
## 97	51	51.0
## 98	51	51.0
## 99	51	51.0
## 100	51	51.0
## 101	51	51.0
## 102	51	51.0
## 103	51	51.0
## 104	51	51.0
## 105	51	51.0
## 106	51	51.0
## 107	51	51.0
## 108	51	51.0
## 109	51	51.0
## 110	51	51.0

#relationships between height and other variables

*#height and substrate*

**kruskal.test**(Height..cm. ~ Substrate, data = compiled)

##

## Kruskal-Wallis rank sum test

##

## data: Height..cm. by Substrate

## Kruskal-Wallis chi-squared = 94.72, df = 11, p-value = 1.971e-15

**library**(FSA)

## Registered S3 methods overwritten by 'FSA':

## method from

## confint.boot car

## hist.boot car

## ## FSA v0.9.4. See citation('FSA') if used in publication.

## ## Run fishR() for related website and fishR('IFAR') for related book.

**dunnTest**(Height..cm. ~ Substrate, data = compiled, method = "holm")

## Warning: Substrate was coerced to a factor.

## Warning: Some rows deleted from 'x' and 'g' because missing data.

## Dunn (1964) Kruskal-Wallis multiple comparison

## p-values adjusted with the Holm method.

##	Comparison	Z	P.unadj	P.adj
## 1	A - A/B	-1.253935988	2.098653e-01	1.000000e+00
## 2	A - A/L	2.000574722	4.543824e-02	1.000000e+00
## 3	A/B - A/L	2.549365407	1.079192e-02	5.503877e-01
## 4	A - A/M	-2.435150343	1.488560e-02	7.442802e-01
## 5	A/B - A/M	-2.033181438	4.203420e-02	1.000000e+00
## 6	A/L - A/M	-3.074665255	2.107389e-03	1.180138e-01
## 7	A - A/W	1.013186588	3.109710e-01	1.000000e+00
## 8	A/B - A/W	1.212247427	2.254177e-01	1.000000e+00
## 9	A/L - A/W	0.504599852	6.138399e-01	1.000000e+00
## 10	A/M - A/W	2.109480030	3.490317e-02	1.000000e+00
## 11	A - B	1.402305314	1.608241e-01	1.000000e+00
## 12	A/B - B	2.211627674	2.699240e-02	1.000000e+00
## 13	A/L - B	-1.425954779	1.538814e-01	1.000000e+00
## 14	A/M - B	2.695658175	7.024972e-03	3.723235e-01
## 15	A/W - B	-0.866464461	3.862355e-01	1.000000e+00
## 16	A - B/L	-0.560742509	5.749731e-01	1.000000e+00
## 17	A/B - B/L	-0.350184128	7.262005e-01	1.000000e+00
## 18	A/L - B/L	-1.032252490	3.019539e-01	1.000000e+00
## 19	A/M - B/L	0.742055637	4.580536e-01	1.000000e+00
## 20	A/W - B/L	-1.116497342	2.642093e-01	1.000000e+00
## 21	B - B/L	-0.708790369	4.784546e-01	1.000000e+00
## 22	A - B/M	-5.526741468	3.262331e-08	2.087892e-06
## 23	A/B - B/M	-3.522156120	4.280520e-04	2.525507e-02
## 24	A/L - B/M	-5.164749632	2.407610e-07	1.516794e-05
## 25	A/M - B/M	0.782836960	4.337229e-01	1.000000e+00
## 26	A/W - B/M	-1.945849843	5.167278e-02	1.000000e+00
## 27	B - B/M	-6.575998725	4.832767e-11	3.189626e-09
## 28	B/L - B/M	-0.384930075	7.002892e-01	1.000000e+00
## 29	A - L	-1.829680125	6.729778e-02	1.000000e+00
## 30	A/B - L	-1.229845398	2.187550e-01	1.000000e+00
## 31	A/L - L	-2.704996471	6.830512e-03	3.688476e-01
## 32	A/M - L	1.032495330	3.018401e-01	1.000000e+00
## 33	A/W - L	-1.612025978	1.069563e-01	1.000000e+00
## 34	B - L	-2.225209556	2.606717e-02	1.000000e+00

```

## 35    B/L - L -0.135038825 8.925812e-01 1.000000e+00
## 36    B/M - L  0.601167803 5.477282e-01 1.000000e+00
## 37    A - L/M -0.947929066 3.431656e-01 1.000000e+00
## 38    A/B - L/M -0.734542290 4.626183e-01 1.000000e+00
## 39    A/L - L/M -1.410318166 1.584458e-01 1.000000e+00
## 40    A/M - L/M  0.405669237 6.849856e-01 1.000000e+00
## 41    A/W - L/M -1.391155688 1.641782e-01 1.000000e+00
## 42    B - L/M -1.096303057 2.729462e-01 1.000000e+00
## 43    B/L - L/M -0.274658346 7.835787e-01 1.000000e+00
## 44    B/M - L/M  0.000943812 9.992469e-01 9.992469e-01
## 45    L - L/M -0.228300014 8.194130e-01 1.000000e+00
## 46    A - M -4.772730414 1.817450e-06 1.126819e-04
## 47    A/B - M -2.717489201 6.577930e-03 3.617862e-01
## 48    A/L - M -4.590210996 4.427982e-06 2.701069e-04
## 49    A/M - M  1.131642054 2.577850e-01 1.000000e+00
## 50    A/W - M -1.749052860 8.028188e-02 1.000000e+00
## 51    B - M -5.923575357 3.150163e-09 2.047606e-07
## 52    B/L - M -0.184248590 8.538184e-01 1.000000e+00
## 53    B/M - M  0.999518059 3.175438e-01 1.000000e+00
## 54    L - M -0.103547988 9.175281e-01 1.000000e+00
## 55    L/M - M  0.200693260 8.409384e-01 1.000000e+00
## 56    A - W -3.179851938 1.473503e-03 8.398968e-02
## 57    A/B - W -2.690898736 7.125982e-03 3.705511e-01
## 58    A/L - W -3.813845365 1.368211e-04 8.209266e-03
## 59    A/M - W -0.249804956 8.027382e-01 1.000000e+00
## 60    A/W - W -2.349310879 1.880820e-02 9.216016e-01
## 61    B - W -3.483497998 4.949068e-04 2.870460e-02
## 62    B/L - W -0.937041039 3.487374e-01 1.000000e+00
## 63    B/M - W -1.259258919 2.079368e-01 1.000000e+00
## 64    L - W -1.441138174 1.495457e-01 1.000000e+00
## 65    L/M - W -0.589622658 5.554437e-01 1.000000e+00
## 66    M - W -1.664007913 9.611085e-02 1.000000e+00

```

*#height and cluster*

```
kruskal.test(Height..cm. ~ SITE.NAME, data = compiled)
```

```
##
```

```
## Kruskal-Wallis rank sum test
```

```
##
```

```
## data: Height..cm. by SITE.NAME
```

```
## Kruskal-Wallis chi-squared = 179.93, df = 10, p-value < 2.2e-16
```

```

dunnTest(Height..cm. ~ SITE.NAME, data = compiled, method = "holm")

## Warning: SITE.NAME was coerced to a factor.

## Warning: Some rows deleted from 'x' and 'g' because missing data.

## Dunn (1964) Kruskal-Wallis multiple comparison
## p-values adjusted with the Holm method.

##      Comparison      Z      P.unadj      P.adj
## 1      BLUE - CAM    2.4530009 1.416700e-02 5.383460e-01
## 2      BLUE - CR69   0.2366580 8.129221e-01 1.000000e+00
## 3      CAM - CR69   -1.2817581 1.999275e-01 1.000000e+00
## 4      BLUE - ELKHORN -0.7083000 4.787590e-01 1.000000e+00
## 5      CAM - ELKHORN -2.7981990 5.138845e-03 2.106926e-01
## 6      CR69 - ELKHORN -0.7835406 4.333097e-01 1.000000e+00
## 7      BLUE - FISH  -0.2007237 8.409146e-01 1.000000e+00
## 8      CAM - FISH   -2.7340593 6.255878e-03 2.502351e-01
## 9      CR69 - FISH  -0.3883909 6.977268e-01 1.000000e+00
## 10     ELKHORN - FISH  0.5344681 5.930177e-01 1.000000e+00
## 11     BLUE - LAKE   0.4864661 6.266367e-01 1.000000e+00
## 12     CAM - LAKE   -2.1478148 3.172847e-02 1.000000e+00
## 13     CR69 - LAKE   0.1083124 9.137479e-01 9.137479e-01
## 14     ELKHORN - LAKE  1.1623744 2.450834e-01 1.000000e+00
## 15     FISH - LAKE   0.7032726 4.818859e-01 1.000000e+00
## 16     BLUE - LONG   2.8629127 4.197662e-03 1.763018e-01
## 17     CAM - LONG    1.7264247 8.427104e-02 1.000000e+00
## 18     CR69 - LONG   1.5595590 1.188641e-01 1.000000e+00
## 19     ELKHORN - LONG  3.1217439 1.797832e-03 7.910462e-02
## 20     FISH - LONG   3.1400031 1.689460e-03 7.602572e-02
## 21     LAKE - LONG   2.6271344 8.610732e-03 3.358185e-01
## 22     BLUE - MONTY  3.1702634 1.523008e-03 7.005838e-02
## 23     CAM - MONTY   2.2181706 2.654321e-02 9.820986e-01
## 24     CR69 - MONTY  1.8199821 6.876172e-02 1.000000e+00
## 25     ELKHORN - MONTY 3.3815421 7.208020e-04 3.387769e-02
## 26     FISH - MONTY  3.4342536 5.941880e-04 2.852102e-02
## 27     LAKE - MONTY  2.9710038 2.968281e-03 1.276361e-01
## 28     LONG - MONTY  1.0494519 2.939702e-01 1.000000e+00
## 29     BLUE - RAWAH -0.5662567 5.712193e-01 1.000000e+00
## 30     CAM - RAWAH -10.7990867 3.476443e-27 1.912044e-25
## 31     CR69 - RAWAH -0.6411010 5.214571e-01 1.000000e+00

```

```
## 32 ELKHORN - RAWAH    0.4364794 6.624889e-01 1.000000e+00
## 33    FISH - RAWAH   -0.2905728 7.713781e-01 1.000000e+00
## 34    LAKE - RAWAH   -1.3862468 1.656716e-01 1.000000e+00
## 35    LONG - RAWAH  -10.6133559 2.583014e-26 1.394828e-24
## 36    MONTY - RAWAH  -8.5797096 9.511296e-18 5.040987e-16
## 37    BLUE - RES     0.6982102 4.850457e-01 1.000000e+00
## 38    CAM - RES     -0.3424369 7.320221e-01 1.000000e+00
## 39    CR69 - RES     0.4628300 6.434862e-01 1.000000e+00
## 40    ELKHORN - RES   1.1103486 2.668488e-01 1.000000e+00
## 41    FISH - RES     0.8140981 4.155887e-01 1.000000e+00
## 42    LAKE - RES     0.4490041 6.534287e-01 1.000000e+00
## 43    LONG - RES    -0.5441042 5.863698e-01 1.000000e+00
## 44    MONTY - RES    -0.7480810 4.544113e-01 1.000000e+00
## 45    RAWAH - RES     1.0194817 3.079743e-01 1.000000e+00
## 46    BLUE - SNOW    1.0523619 2.926336e-01 1.000000e+00
## 47    CAM - SNOW    -4.2980730 1.722894e-05 8.442183e-04
## 48    CR69 - SNOW    0.4060203 6.847277e-01 1.000000e+00
## 49    ELKHORN - SNOW  1.7023383 8.869196e-02 1.000000e+00
## 50    FISH - SNOW    1.3250917 1.851407e-01 1.000000e+00
## 51    LAKE - SNOW    0.5132703 6.077623e-01 1.000000e+00
## 52    LONG - SNOW   -5.0418104 4.611482e-07 2.397970e-05
## 53    MONTY - SNOW   -4.7267653 2.281247e-06 1.163436e-04
## 54    RAWAH - SNOW    4.4295146 9.444540e-06 4.722270e-04
## 55    RES - SNOW    -0.2727398 7.850533e-01 1.000000e+00
```

*#height and elevation*

```
kruskal.test(Height..cm. ~ Elevation, data = compiled)

##
##  Kruskal-Wallis rank sum test
##
## data:  Height..cm. by Elevation
## Kruskal-Wallis chi-squared = 215.78, df = 24, p-value < 2.2e-16

dunnTest(Height..cm. ~ Elevation, data = compiled, method = "holm")

## Warning: Elevation was coerced to a factor.

## Warning: Some rows deleted from 'x' and 'g' because missing data.
```

```
## Dunn (1964) Kruskal-Wallis multiple comparison
## p-values adjusted with the Holm method.
```

##	Comparison	Z	P.unadj	P.adj
## 1	2462 - 2571	0.369572875	7.117008e-01	1.000000e+00
## 2	2462 - 2596	0.527374538	5.979335e-01	1.000000e+00
## 3	2571 - 2596	0.208136986	8.351220e-01	1.000000e+00
## 4	2462 - 2710	-0.037649094	9.699675e-01	1.000000e+00
## 5	2571 - 2710	-0.619106285	5.358463e-01	1.000000e+00
## 6	2596 - 2710	-0.773968036	4.389497e-01	1.000000e+00
## 7	2462 - 2712	-0.205830759	8.369231e-01	1.000000e+00
## 8	2571 - 2712	-0.643320821	5.200159e-01	1.000000e+00
## 9	2596 - 2712	-0.783540621	4.333097e-01	1.000000e+00
## 10	2710 - 2712	-0.273465130	7.844957e-01	1.000000e+00
## 11	2462 - 2715	1.527725796	1.265806e-01	1.000000e+00
## 12	2571 - 2715	1.328224894	1.841038e-01	1.000000e+00
## 13	2596 - 2715	1.097126289	2.725862e-01	1.000000e+00
## 14	2710 - 2715	1.885833617	5.931738e-02	1.000000e+00
## 15	2712 - 2715	1.783121408	7.456654e-02	1.000000e+00
## 16	2462 - 2724	0.902311311	3.668915e-01	1.000000e+00
## 17	2571 - 2724	0.595619678	5.514293e-01	1.000000e+00
## 18	2596 - 2724	0.324601449	7.454827e-01	1.000000e+00
## 19	2710 - 2724	1.445495050	1.483189e-01	1.000000e+00
## 20	2712 - 2724	1.238940498	2.153675e-01	1.000000e+00
## 21	2715 - 2724	-0.907058181	3.643760e-01	1.000000e+00
## 22	2462 - 2751	1.714756732	8.638984e-02	1.000000e+00
## 23	2571 - 2751	1.508849010	1.313374e-01	1.000000e+00
## 24	2596 - 2751	1.187382193	2.350769e-01	1.000000e+00
## 25	2710 - 2751	2.431787929	1.502450e-02	1.000000e+00
## 26	2712 - 2751	2.084252644	3.713719e-02	1.000000e+00
## 27	2715 - 2751	-0.127632788	8.984396e-01	1.000000e+00
## 28	2724 - 2751	0.976110574	3.290097e-01	1.000000e+00
## 29	2462 - 2825	0.060593344	9.516831e-01	1.000000e+00
## 30	2571 - 2825	-0.227904066	8.197208e-01	1.000000e+00
## 31	2596 - 2825	-0.370006163	7.113779e-01	1.000000e+00
## 32	2710 - 2825	0.100526178	9.199266e-01	1.000000e+00
## 33	2712 - 2825	0.226992449	8.204296e-01	1.000000e+00
## 34	2715 - 2825	-1.270573975	2.038803e-01	1.000000e+00
## 35	2724 - 2825	-0.649070779	5.162926e-01	1.000000e+00
## 36	2751 - 2825	-1.339499665	1.804081e-01	1.000000e+00

##	37	2462	-	2835	0.862488234	3.884189e-01	1.000000e+00
##	38	2571	-	2835	0.518799098	6.039008e-01	1.000000e+00
##	39	2596	-	2835	0.216588974	8.285287e-01	1.000000e+00
##	40	2710	-	2835	1.725077889	8.451344e-02	1.000000e+00
##	41	2712	-	2835	1.261641996	2.070776e-01	1.000000e+00
##	42	2715	-	2835	-1.080298405	2.800093e-01	1.000000e+00
##	43	2724	-	2835	-0.168963264	8.658255e-01	1.000000e+00
##	44	2751	-	2835	-1.237651278	2.158454e-01	1.000000e+00
##	45	2825	-	2835	0.583273428	5.597092e-01	1.000000e+00
##	46	2462	-	2901	-0.202107607	8.398326e-01	1.000000e+00
##	47	2571	-	2901	-0.590970667	5.545401e-01	1.000000e+00
##	48	2596	-	2901	-0.729482145	4.657068e-01	1.000000e+00
##	49	2710	-	2901	-0.244533015	8.068180e-01	1.000000e+00
##	50	2712	-	2901	-0.015567032	9.875798e-01	1.000000e+00
##	51	2715	-	2901	-1.692745967	9.050383e-02	1.000000e+00
##	52	2724	-	2901	-1.123709102	2.611365e-01	1.000000e+00
##	53	2751	-	2901	-1.916864339	5.525517e-02	1.000000e+00
##	54	2825	-	2901	-0.225613514	8.215020e-01	1.000000e+00
##	55	2835	-	2901	-1.110018490	2.669911e-01	1.000000e+00
##	56	2462	-	2926	0.748947216	4.538890e-01	1.000000e+00
##	57	2571	-	2926	0.424153407	6.714539e-01	1.000000e+00
##	58	2596	-	2926	0.171237354	8.640371e-01	1.000000e+00
##	59	2710	-	2926	1.207595254	2.272030e-01	1.000000e+00
##	60	2712	-	2926	1.067474227	2.857577e-01	1.000000e+00
##	61	2715	-	2926	-1.028303144	3.038073e-01	1.000000e+00
##	62	2724	-	2926	-0.171466271	8.638571e-01	1.000000e+00
##	63	2751	-	2926	-1.129474669	2.586976e-01	1.000000e+00
##	64	2825	-	2926	0.527825816	5.976202e-01	1.000000e+00
##	65	2835	-	2926	-0.029028931	9.768415e-01	1.000000e+00
##	66	2901	-	2926	0.970345007	3.318746e-01	1.000000e+00
##	67	2462	-	2959	1.139712574	2.544061e-01	1.000000e+00
##	68	2571	-	2959	0.814471258	4.153750e-01	1.000000e+00
##	69	2596	-	2959	0.406020316	6.847277e-01	1.000000e+00
##	70	2710	-	2959	4.913899543	8.928251e-07	2.607049e-04
##	71	2712	-	2959	1.702338342	8.869196e-02	1.000000e+00
##	72	2715	-	2959	-1.043196921	2.968571e-01	1.000000e+00
##	73	2724	-	2959	-0.007561994	9.939665e-01	1.000000e+00
##	74	2751	-	2959	-1.245885605	2.128064e-01	1.000000e+00
##	75	2825	-	2959	0.738876779	4.599818e-01	1.000000e+00
##	76	2835	-	2959	0.268585251	7.882489e-01	1.000000e+00

##	77	2901 - 2959	1.420888050	1.553493e-01	1.000000e+00
##	78	2926 - 2959	0.229083942	8.188037e-01	1.000000e+00
##	79	2462 - 3020	1.711222241	8.704009e-02	1.000000e+00
##	80	2571 - 3020	1.508535315	1.314176e-01	1.000000e+00
##	81	2596 - 3020	0.979087954	3.275365e-01	1.000000e+00
##	82	2710 - 3020	7.057400363	1.696463e-12	5.021531e-10
##	83	2712 - 3020	2.393623465	1.668287e-02	1.000000e+00
##	84	2715 - 3020	-0.632499298	5.270607e-01	1.000000e+00
##	85	2724 - 3020	0.689074943	4.907761e-01	1.000000e+00
##	86	2751 - 3020	-0.669310200	5.032976e-01	1.000000e+00
##	87	2825 - 3020	1.147648282	2.511138e-01	1.000000e+00
##	88	2835 - 3020	1.226773940	2.199076e-01	1.000000e+00
##	89	2901 - 3020	1.991800650	4.639293e-02	1.000000e+00
##	90	2926 - 3020	0.924980201	3.549762e-01	1.000000e+00
##	91	2959 - 3020	2.193115640	2.829905e-02	1.000000e+00
##	92	2462 - 3029	1.194855508	2.321435e-01	1.000000e+00
##	93	2571 - 3029	0.896958663	3.697410e-01	1.000000e+00
##	94	2596 - 3029	0.527773620	5.976565e-01	1.000000e+00
##	95	2710 - 3029	2.615533020	8.908831e-03	1.000000e+00
##	96	2712 - 3029	1.672832766	9.436022e-02	1.000000e+00
##	97	2715 - 3029	-0.873473087	3.824053e-01	1.000000e+00
##	98	2724 - 3029	0.178614304	8.582406e-01	1.000000e+00
##	99	2751 - 3029	-0.974159254	3.299775e-01	1.000000e+00
##	100	2825 - 3029	0.820625546	4.118596e-01	1.000000e+00
##	101	2835 - 3029	0.445129722	6.562260e-01	1.000000e+00
##	102	2901 - 3029	1.450503656	1.469181e-01	1.000000e+00
##	103	2926 - 3029	0.385410407	6.999334e-01	1.000000e+00
##	104	2959 - 3029	0.333158201	7.390149e-01	1.000000e+00
##	105	3020 - 3029	-0.759346934	4.476450e-01	1.000000e+00
##	106	2462 - 3040	0.893429516	3.716272e-01	1.000000e+00
##	107	2571 - 3040	0.655452092	5.121767e-01	1.000000e+00
##	108	2596 - 3040	0.462830009	6.434862e-01	1.000000e+00
##	109	2710 - 3040	1.113978380	2.652885e-01	1.000000e+00
##	110	2712 - 3040	1.110348607	2.668488e-01	1.000000e+00
##	111	2715 - 3040	-0.549316692	5.827881e-01	1.000000e+00
##	112	2724 - 3040	0.234285379	8.147634e-01	1.000000e+00
##	113	2751 - 3040	-0.506663492	6.123910e-01	1.000000e+00
##	114	2825 - 3040	0.721257283	4.707512e-01	1.000000e+00
##	115	2835 - 3040	0.361074027	7.180441e-01	1.000000e+00
##	116	2901 - 3040	1.058449687	2.898505e-01	1.000000e+00



```
## 117 2926 - 3040 0.355530342 7.221923e-01 1.000000e+00
## 118 2959 - 3040 0.272739751 7.850533e-01 1.000000e+00
## 119 3020 - 3040 -0.137125139 8.909319e-01 1.000000e+00
## 120 3029 - 3040 0.141050831 8.878298e-01 1.000000e+00
## 121 2462 - 3068 2.596842409 9.408508e-03 1.000000e+00
## 122 2571 - 3068 2.585038135 9.736823e-03 1.000000e+00
## 123 2596 - 3068 1.862956078 6.246845e-02 1.000000e+00
## 124 2710 - 3068 11.044279617 2.336340e-28 7.009021e-26
## 125 2712 - 3068 3.473251975 5.141924e-04 1.475732e-01
## 126 2715 - 3068 -0.004929617 9.960668e-01 9.960668e-01
## 127 2724 - 3068 1.762683839 7.795383e-02 1.000000e+00
## 128 2751 - 3068 0.210613202 8.331891e-01 1.000000e+00
## 129 2825 - 3068 1.777383593 7.550515e-02 1.000000e+00
## 130 2835 - 3068 2.715604865 6.615482e-03 1.000000e+00
## 131 2901 - 3068 2.878092260 4.000881e-03 1.000000e+00
## 132 2926 - 3068 1.999422197 4.556269e-02 1.000000e+00
## 133 2959 - 3068 5.757667817 8.528397e-09 2.515877e-06
## 134 3020 - 3068 3.373459267 7.423003e-04 2.115556e-01
## 135 3029 - 3068 2.450615465 1.426122e-02 1.000000e+00
## 136 3040 - 3068 0.765631103 4.438958e-01 1.000000e+00
## 137 2462 - 3090 2.020549752 4.332639e-02 1.000000e+00
## 138 2571 - 3090 1.872422485 6.114818e-02 1.000000e+00
## 139 2596 - 3090 1.317383701 1.877100e-01 1.000000e+00
## 140 2710 - 3090 5.613770267 1.979650e-08 5.820171e-06
## 141 2712 - 3090 2.707305828 6.783174e-03 1.000000e+00
## 142 2715 - 3090 -0.345042841 7.300622e-01 1.000000e+00
## 143 2724 - 3090 1.099444321 2.715743e-01 1.000000e+00
## 144 2751 - 3090 -0.265792557 7.903990e-01 1.000000e+00
## 145 2825 - 3090 1.398170271 1.620619e-01 1.000000e+00
## 146 2835 - 3090 1.694528206 9.016496e-02 1.000000e+00
## 147 2901 - 3090 2.290026562 2.201978e-02 1.000000e+00
## 148 2926 - 3090 1.321968338 1.861787e-01 1.000000e+00
## 149 2959 - 3090 2.474332315 1.334855e-02 1.000000e+00
## 150 3020 - 3090 0.991325992 3.215264e-01 1.000000e+00
## 151 3029 - 3090 1.318197115 1.874377e-01 1.000000e+00
## 152 3040 - 3090 0.408613443 6.828234e-01 1.000000e+00
## 153 3068 - 3090 -1.248549038 2.118301e-01 1.000000e+00
## 154 2462 - 3093 1.431030458 1.524215e-01 1.000000e+00
## 155 2571 - 3093 1.172751587 2.408954e-01 1.000000e+00
## 156 2596 - 3093 0.763948569 4.448979e-01 1.000000e+00
```

```
## 157 2710 - 3093 3.118170343 1.819776e-03 5.168164e-01
## 158 2712 - 3093 1.948625689 5.134014e-02 1.000000e+00
## 159 2715 - 3093 -0.697438673 4.855283e-01 1.000000e+00
## 160 2724 - 3093 0.454407227 6.495358e-01 1.000000e+00
## 161 2751 - 3093 -0.737984304 4.605240e-01 1.000000e+00
## 162 2825 - 3093 0.996659960 3.189296e-01 1.000000e+00
## 163 2835 - 3093 0.790854448 4.290289e-01 1.000000e+00
## 164 2901 - 3093 1.686678606 9.166517e-02 1.000000e+00
## 165 2926 - 3093 0.661203331 5.084819e-01 1.000000e+00
## 166 2959 - 3093 0.829224819 4.069772e-01 1.000000e+00
## 167 3020 - 3093 -0.267089990 7.893999e-01 1.000000e+00
## 168 3029 - 3093 0.373425384 7.088319e-01 1.000000e+00
## 169 3040 - 3093 0.034983583 9.720928e-01 1.000000e+00
## 170 3068 - 3093 -1.954069787 5.069296e-02 1.000000e+00
## 171 3090 - 3093 -0.887002623 3.750775e-01 1.000000e+00
## 172 2462 - 3099 1.675545750 9.382720e-02 1.000000e+00
## 173 2571 - 3099 1.461150418 1.439742e-01 1.000000e+00
## 174 2596 - 3099 0.972379700 3.308617e-01 1.000000e+00
## 175 2710 - 3099 4.671990674 2.982945e-06 8.650541e-04
## 176 2712 - 3099 2.296033760 2.167395e-02 1.000000e+00
## 177 2715 - 3099 -0.596070125 5.511284e-01 1.000000e+00
## 178 2724 - 3099 0.688172254 4.913443e-01 1.000000e+00
## 179 2751 - 3099 -0.610796558 5.413343e-01 1.000000e+00
## 180 2825 - 3099 1.147142987 2.513225e-01 1.000000e+00
## 181 2835 - 3099 1.154010815 2.484957e-01 1.000000e+00
## 182 2901 - 3099 1.945022560 5.177226e-02 1.000000e+00
## 183 2926 - 3099 0.910696271 3.624554e-01 1.000000e+00
## 184 2959 - 3099 1.554700015 1.200175e-01 1.000000e+00
## 185 3020 - 3099 0.084218453 9.328827e-01 1.000000e+00
## 186 3029 - 3099 0.720632655 4.711356e-01 1.000000e+00
## 187 3040 - 3099 0.157586159 8.747829e-01 1.000000e+00
## 188 3068 - 3099 -2.169772398 3.002409e-02 1.000000e+00
## 189 3090 - 3099 -0.731864007 4.642516e-01 1.000000e+00
## 190 3093 - 3099 0.289438163 7.722461e-01 1.000000e+00
## 191 2462 - 3106 2.638179540 8.335244e-03 1.000000e+00
## 192 2571 - 3106 2.624612168 8.674771e-03 1.000000e+00
## 193 2596 - 3106 1.916042213 5.535972e-02 1.000000e+00
## 194 2710 - 3106 9.077244964 1.113578e-19 3.318462e-17
## 195 2712 - 3106 3.492065785 4.793002e-04 1.380385e-01
## 196 2715 - 3106 0.054675799 9.563968e-01 1.000000e+00
```

##	197	2724	-	3106	1.821478758	6.853411e-02	1.000000e+00
##	198	2751	-	3106	0.290152183	7.716998e-01	1.000000e+00
##	199	2825	-	3106	1.822319515	6.840652e-02	1.000000e+00
##	200	2835	-	3106	2.733448276	6.267497e-03	1.000000e+00
##	201	2901	-	3106	2.914926779	3.557720e-03	9.997193e-01
##	202	2926	-	3106	2.052683831	4.010325e-02	1.000000e+00
##	203	2959	-	3106	4.952594952	7.323030e-07	2.145648e-04
##	204	3020	-	3106	3.037597580	2.384722e-03	6.748763e-01
##	205	3029	-	3106	2.467981989	1.358772e-02	1.000000e+00
##	206	3040	-	3106	0.818894347	4.128467e-01	1.000000e+00
##	207	3068	-	3106	0.271528275	7.859848e-01	1.000000e+00
##	208	3090	-	3106	1.328430248	1.840360e-01	1.000000e+00
##	209	3093	-	3106	1.998749944	4.563542e-02	1.000000e+00
##	210	3099	-	3106	2.164277846	3.044303e-02	1.000000e+00
##	211	2462	-	3154	2.007684500	4.467683e-02	1.000000e+00
##	212	2571	-	3154	1.872376854	6.115448e-02	1.000000e+00
##	213	2596	-	3154	1.266540311	2.053197e-01	1.000000e+00
##	214	2710	-	3154	10.473044792	1.148871e-25	3.435124e-23
##	215	2712	-	3154	2.773653693	5.543065e-03	1.000000e+00
##	216	2715	-	3154	-0.441076545	6.591576e-01	1.000000e+00
##	217	2724	-	3154	1.037928158	2.993035e-01	1.000000e+00
##	218	2751	-	3154	-0.402143612	6.875783e-01	1.000000e+00
##	219	2825	-	3154	1.350126977	1.769753e-01	1.000000e+00
##	220	2835	-	3154	1.741614307	8.157596e-02	1.000000e+00
##	221	2901	-	3154	2.291715806	2.192205e-02	1.000000e+00
##	222	2926	-	3154	1.278148237	2.011972e-01	1.000000e+00
##	223	2959	-	3154	4.018528716	5.856267e-05	1.692461e-02
##	224	3020	-	3154	1.234556377	2.169957e-01	1.000000e+00
##	225	3029	-	3154	1.335531236	1.817025e-01	1.000000e+00
##	226	3040	-	3154	0.333327789	7.388869e-01	1.000000e+00
##	227	3068	-	3154	-2.902349809	3.703747e-03	1.000000e+00
##	228	3090	-	3154	-0.330882912	7.407329e-01	1.000000e+00
##	229	3093	-	3154	0.820310500	4.120391e-01	1.000000e+00
##	230	3099	-	3154	0.655394999	5.122135e-01	1.000000e+00
##	231	3106	-	3154	-2.500823090	1.239051e-02	1.000000e+00
##	232	2462	-	3199	1.984759863	4.717119e-02	1.000000e+00
##	233	2571	-	3199	1.804622621	7.113376e-02	1.000000e+00
##	234	2596	-	3199	1.457385325	1.450100e-01	1.000000e+00
##	235	2710	-	3199	2.808765590	4.973184e-03	1.000000e+00
##	236	2712	-	3199	2.380026256	1.731140e-02	1.000000e+00

##	237	2715	-	3199	0.092823846	9.260435e-01	1.000000e+00
##	238	2724	-	3199	1.271884186	2.034143e-01	1.000000e+00
##	239	2751	-	3199	0.270003132	7.871578e-01	1.000000e+00
##	240	2825	-	3199	1.559956298	1.187702e-01	1.000000e+00
##	241	2835	-	3199	1.568336229	1.168027e-01	1.000000e+00
##	242	2901	-	3199	2.186867471	2.875220e-02	1.000000e+00
##	243	2926	-	3199	1.425248281	1.540854e-01	1.000000e+00
##	244	2959	-	3199	1.621518468	1.049065e-01	1.000000e+00
##	245	3020	-	3199	1.044145419	2.964181e-01	1.000000e+00
##	246	3029	-	3199	1.315689203	1.882784e-01	1.000000e+00
##	247	3040	-	3199	0.727120126	4.671524e-01	1.000000e+00
##	248	3068	-	3199	0.165119021	8.688503e-01	1.000000e+00
##	249	3090	-	3199	0.625796732	5.314483e-01	1.000000e+00
##	250	3093	-	3199	1.079514253	2.803585e-01	1.000000e+00
##	251	3099	-	3199	0.970800734	3.316475e-01	1.000000e+00
##	252	3106	-	3199	0.079564831	9.365834e-01	1.000000e+00
##	253	3154	-	3199	0.781591685	4.344546e-01	1.000000e+00
##	254	2462	-	3206	-0.009024541	9.927996e-01	1.000000e+00
##	255	2571	-	3206	-0.301744983	7.628465e-01	1.000000e+00
##	256	2596	-	3206	-0.439624048	6.602094e-01	1.000000e+00
##	257	2710	-	3206	0.015810360	9.873857e-01	1.000000e+00
##	258	2712	-	3206	0.153151532	8.782788e-01	1.000000e+00
##	259	2715	-	3206	-1.330864831	1.832335e-01	1.000000e+00
##	260	2724	-	3206	-0.722911696	4.697341e-01	1.000000e+00
##	261	2751	-	3206	-1.409117549	1.588004e-01	1.000000e+00
##	262	2825	-	3206	-0.060290856	9.519240e-01	1.000000e+00
##	263	2835	-	3206	-0.662212689	5.078349e-01	1.000000e+00
##	264	2901	-	3206	0.155995630	8.760365e-01	1.000000e+00
##	265	2926	-	3206	-0.601666733	5.473960e-01	1.000000e+00
##	266	2959	-	3206	-0.823439151	4.102583e-01	1.000000e+00
##	267	3020	-	3206	-1.232119257	2.179045e-01	1.000000e+00
##	268	3029	-	3206	-0.901013355	3.675812e-01	1.000000e+00
##	269	3040	-	3206	-0.781548139	4.344802e-01	1.000000e+00
##	270	3068	-	3206	-1.861957331	6.260910e-02	1.000000e+00
##	271	3090	-	3206	-1.480888643	1.386362e-01	1.000000e+00
##	272	3093	-	3206	-1.077047769	2.814589e-01	1.000000e+00
##	273	3099	-	3206	-1.229861360	2.187490e-01	1.000000e+00
##	274	3106	-	3206	-1.906197160	5.662463e-02	1.000000e+00
##	275	3154	-	3206	-1.435122575	1.512522e-01	1.000000e+00
##	276	3199	-	3206	-1.629574183	1.031915e-01	1.000000e+00

```
## 277 2462 - 3259 2.611449827 9.015922e-03 1.000000e+00
## 278 2571 - 3259 2.591707923 9.550081e-03 1.000000e+00
## 279 2596 - 3259 1.890089410 5.874600e-02 1.000000e+00
## 280 2710 - 3259 8.886506168 6.306055e-19 1.872898e-16
## 281 2712 - 3259 3.457805084 5.445952e-04 1.557542e-01
## 282 2715 - 3259 0.037472365 9.701084e-01 1.000000e+00
## 283 2724 - 3259 1.789830391 7.348118e-02 1.000000e+00
## 284 2751 - 3259 0.265948591 7.902788e-01 1.000000e+00
## 285 2825 - 3259 1.804133784 7.121034e-02 1.000000e+00
## 286 2835 - 3259 2.686682419 7.216553e-03 1.000000e+00
## 287 2901 - 3259 2.887899329 3.878240e-03 1.000000e+00
## 288 2926 - 3259 2.020673923 4.331353e-02 1.000000e+00
## 289 2959 - 3259 4.819401161 1.439898e-06 4.190102e-04
## 290 3020 - 3259 2.929076905 3.399703e-03 9.587162e-01
## 291 3029 - 3259 2.415334956 1.572075e-02 1.000000e+00
## 292 3040 - 3259 0.801266230 4.229775e-01 1.000000e+00
## 293 3068 - 3259 0.191005918 8.485210e-01 1.000000e+00
## 294 3090 - 3259 1.264447659 2.060694e-01 1.000000e+00
## 295 3093 - 3259 1.947796895 5.143927e-02 1.000000e+00
## 296 3099 - 3259 2.095327323 3.614191e-02 1.000000e+00
## 297 3106 - 3259 -0.067072219 9.465242e-01 1.000000e+00
## 298 3154 - 3259 2.378894882 1.736463e-02 1.000000e+00
## 299 3199 - 3259 -0.103370665 9.176688e-01 1.000000e+00
## 300 3206 - 3259 1.887964818 5.903067e-02 1.000000e+00
```

*#small topo and height*

```
kruskal.test(Height..cm. ~ Small.Topo, data = compiled)
```

```
##
```

```
## Kruskal-Wallis rank sum test
```

```
##
```

```
## data: Height..cm. by Small.Topo
```

```
## Kruskal-Wallis chi-squared = 3.5963, df = 4, p-value = 0.4634
```

```
dunnTest(Height..cm. ~ Small.Topo, data = compiled, method = "holm")
```

```
## Warning: Small.Topo was coerced to a factor.
```

```
## Warning: Some rows deleted from 'x' and 'g' because missing data.
```

```
## Dunn (1964) Kruskal-Wallis multiple comparison
## p-values adjusted with the Holm method.
```

	Comparison	Z	P.unadj	P.adj
## 1	C - CC	1.27467664	0.2024237	1.0000000
## 2	C - CV	1.19273869	0.2329717	1.0000000
## 3	CC - CV	-0.49153346	0.6230492	1.0000000
## 4	C - F	1.19687391	0.2313557	1.0000000
## 5	CC - F	-0.69983902	0.4840278	1.0000000
## 6	CV - F	-0.01491777	0.9880978	0.9880978
## 7	C - S	1.11607398	0.2643905	1.0000000
## 8	CC - S	-1.46336959	0.1433663	1.0000000
## 9	CV - S	-0.53605212	0.5919225	1.0000000
## 10	F - S	-0.70260504	0.4823019	1.0000000

*#large topo and height*

```
kruskal.test(Height..cm. ~ Large.Topo, data = compiled)
```

```
##
## Kruskal-Wallis rank sum test
##
## data: Height..cm. by Large.Topo
## Kruskal-Wallis chi-squared = 0.72561, df = 3, p-value = 0.8672

dunnTest(Height..cm. ~ Large.Topo, data = compiled, method = "holm")

## Warning: Large.Topo was coerced to a factor.

## Warning: Some rows deleted from 'x' and 'g' because missing data.
```

```
## Dunn (1964) Kruskal-Wallis multiple comparison
## p-values adjusted with the Holm method.
```

	Comparison	Z	P.unadj	P.adj
## 1	CC - CV	-0.4347278	0.6637600	1.0000000
## 2	CC - F	-0.7317922	0.4642954	1.0000000
## 3	CV - F	0.0176838	0.9858911	0.9858911
## 4	CC - S	-0.5990747	0.5491230	1.0000000
## 5	CV - S	0.1384717	0.8898676	1.0000000
## 6	F - S	0.2042243	0.8381782	1.0000000

#Kruskall tests with seedling count

```
#count and cluster
```

```
kruskal.test(seedling ~ SITE.NAME, data = compiled)
```

```
##
```

```
## Kruskal-Wallis rank sum test
```

```
##
```

```
## data: seedling by SITE.NAME
```

```
## Kruskal-Wallis chi-squared = 498.02, df = 10, p-value < 2.2e-16
```

```
dunnTest(seedling ~ SITE.NAME, data = compiled, method = "holm")
```

```
## Warning: SITE.NAME was coerced to a factor.
```

```
## Dunn (1964) Kruskal-Wallis multiple comparison
```

```
## p-values adjusted with the Holm method.
```

##	Comparison	Z	P.unadj	P.adj
## 1	BLUE - CAM	-5.46554250	4.614932e-08	2.261317e-06
## 2	BLUE - CR69	-2.09161931	3.647258e-02	1.000000e+00
## 3	CAM - CR69	1.55463305	1.200335e-01	1.000000e+00
## 4	BLUE - ELKHORN	0.84932574	3.957001e-01	1.000000e+00
## 5	CAM - ELKHORN	4.61531329	3.925028e-06	1.884013e-04
## 6	CR69 - ELKHORN	2.48386368	1.299655e-02	4.548794e-01
## 7	BLUE - FISH	-1.57944787	1.142334e-01	1.000000e+00
## 8	CAM - FISH	3.55562970	3.770749e-04	1.621422e-02
## 9	CR69 - FISH	0.80596353	4.202639e-01	1.000000e+00
## 10	ELKHORN - FISH	-2.07315472	3.815788e-02	1.000000e+00
## 11	BLUE - LAKE	1.04303161	2.969337e-01	1.000000e+00
## 12	CAM - LAKE	7.33455981	2.224514e-13	1.112257e-11
## 13	CR69 - LAKE	3.02236322	2.508094e-03	1.028319e-01
## 14	ELKHORN - LAKE	-0.06834576	9.455104e-01	1.000000e+00
## 15	FISH - LAKE	2.71452416	6.637106e-03	2.455729e-01
## 16	BLUE - LONG	-2.39084899	1.680947e-02	5.715218e-01
## 17	CAM - LONG	9.83911557	7.637931e-23	4.048103e-21
## 18	CR69 - LONG	0.73860722	4.601455e-01	1.000000e+00
## 19	ELKHORN - LONG	-2.59538353	9.448542e-03	3.401475e-01
## 20	FISH - LONG	-0.31856220	7.500585e-01	1.000000e+00
## 21	LAKE - LONG	-4.01391704	5.971934e-05	2.627651e-03
## 22	BLUE - MONTY	-1.41200460	1.579486e-01	1.000000e+00
## 23	CAM - MONTY	8.01772766	1.077193e-15	5.493685e-14
## 24	CR69 - MONTY	1.36107053	1.734914e-01	1.000000e+00

```

## 25 ELKHORN - MONTY -1.94642471 5.160374e-02 1.000000e+00
## 26 FISH - MONTY 0.57747441 5.636190e-01 1.000000e+00
## 27 LAKE - MONTY -2.85615723 4.288027e-03 1.629450e-01
## 28 LONG - MONTY 1.70204127 8.874763e-02 1.000000e+00
## 29 BLUE - RAWAH 0.64259979 5.204838e-01 1.000000e+00
## 30 CAM - RAWAH 18.61250953 2.544172e-77 1.399295e-75
## 31 CR69 - RAWAH 3.05567041 2.245580e-03 9.431434e-02
## 32 ELKHORN - RAWAH -0.56724005 5.705511e-01 1.000000e+00
## 33 FISH - RAWAH 2.89248845 3.822032e-03 1.490593e-01
## 34 LAKE - RAWAH -0.77572364 4.379122e-01 1.000000e+00
## 35 LONG - RAWAH 8.03996795 8.986198e-16 4.672823e-14
## 36 MONTY - RAWAH 4.05306495 5.055096e-05 2.274793e-03
## 37 BLUE - RES -0.05413603 9.568268e-01 9.568268e-01
## 38 CAM - RES 4.08856252 4.340546e-05 1.996651e-03
## 39 CR69 - RES 1.80603590 7.091273e-02 1.000000e+00
## 40 ELKHORN - RES -0.81179935 4.169068e-01 1.000000e+00
## 41 FISH - RES 1.27946710 2.007326e-01 1.000000e+00
## 42 LAKE - RES -0.93693260 3.487932e-01 1.000000e+00
## 43 LONG - RES 1.76639095 7.733028e-02 1.000000e+00
## 44 MONTY - RES 1.04697733 2.951100e-01 1.000000e+00
## 45 RAWAH - RES -0.56027321 5.752931e-01 1.000000e+00
## 46 BLUE - SNOW -0.64102708 5.215051e-01 1.000000e+00
## 47 CAM - SNOW 12.78857284 1.899297e-37 1.025620e-35
## 48 CR69 - SNOW 2.04292667 4.105970e-02 1.000000e+00
## 49 ELKHORN - SNOW -1.42344163 1.546082e-01 1.000000e+00
## 50 FISH - SNOW 1.49158700 1.358074e-01 1.000000e+00
## 51 LAKE - SNOW -2.11444750 3.447706e-02 1.000000e+00
## 52 LONG - SNOW 4.16217423 3.152317e-05 1.481589e-03
## 53 MONTY - SNOW 1.52191885 1.280294e-01 1.000000e+00
## 54 RAWAH - SNOW -3.01025752 2.610263e-03 1.044105e-01
## 55 RES - SNOW -0.43008983 6.671303e-01 1.000000e+00

```

*#count and elevation*

```
kruskal.test(seedling ~ Elevation, data = compiled)
```

```
##
```

```
## Kruskal-Wallis rank sum test
```

```
##
```

```
## data: seedling by Elevation
```

```
## Kruskal-Wallis chi-squared = 543.97, df = 37, p-value < 2.2e-16
```



```
dunnTest(seedling ~ Elevation, data = compiled, method = "holm")
```

```
## Warning: Elevation was coerced to a factor.
```

```
## Dunn (1964) Kruskal-Wallis multiple comparison
```

```
## p-values adjusted with the Holm method.
```

##	Comparison	Z	P.unadj	P.adj
## 1	2462 - 2519	1.523774790	1.275650e-01	1.000000e+00
## 2	2462 - 2546	1.518737518	1.288286e-01	1.000000e+00
## 3	2519 - 2546	-0.004362406	9.965193e-01	1.000000e+00
## 4	2462 - 2571	0.023653734	9.811288e-01	1.000000e+00
## 5	2519 - 2571	-1.597507312	1.101527e-01	1.000000e+00
## 6	2546 - 2571	-1.592164478	1.113478e-01	1.000000e+00
## 7	2462 - 2574	-0.007555908	9.939713e-01	1.000000e+00
## 8	2519 - 2574	-1.326171286	1.847830e-01	1.000000e+00
## 9	2546 - 2574	-1.321808880	1.862318e-01	1.000000e+00
## 10	2571 - 2574	-0.026714169	9.786877e-01	1.000000e+00
## 11	2462 - 2596	-0.024677492	9.803122e-01	1.000000e+00
## 12	2519 - 2596	-1.543923878	1.226068e-01	1.000000e+00
## 13	2546 - 2596	-1.538886606	1.238320e-01	1.000000e+00
## 14	2571 - 2596	-0.050686572	9.595753e-01	1.000000e+00
## 15	2574 - 2596	-0.012593180	9.899524e-01	1.000000e+00
## 16	2462 - 2599	0.007555908	9.939713e-01	1.000000e+00
## 17	2519 - 2599	-1.313084069	1.891546e-01	1.000000e+00
## 18	2546 - 2599	-1.308721664	1.906287e-01	1.000000e+00
## 19	2571 - 2599	-0.010685668	9.914742e-01	1.000000e+00
## 20	2574 - 2599	0.013087217	9.895582e-01	1.000000e+00
## 21	2596 - 2599	0.027704996	9.778974e-01	1.000000e+00
## 22	2462 - 2611	-0.012593180	9.899524e-01	1.000000e+00
## 23	2519 - 2611	-1.330533691	1.833425e-01	1.000000e+00
## 24	2546 - 2611	-1.326171286	1.847830e-01	1.000000e+00
## 25	2571 - 2611	-0.032057003	9.744266e-01	1.000000e+00
## 26	2574 - 2611	-0.004362406	9.965193e-01	1.000000e+00
## 27	2596 - 2611	0.007555908	9.939713e-01	1.000000e+00
## 28	2599 - 2611	-0.017449622	9.860779e-01	1.000000e+00
## 29	2462 - 2710	2.192177097	2.836672e-02	1.000000e+00
## 30	2519 - 2710	-0.294225516	7.685856e-01	1.000000e+00
## 31	2546 - 2710	-0.288095818	7.732734e-01	1.000000e+00
## 32	2571 - 2710	2.631332638	8.505075e-03	1.000000e+00
## 33	2574 - 2710	1.569202752	1.166007e-01	1.000000e+00

##	34	2596 - 2710	2.226631747	2.597190e-02	1.000000e+00
##	35	2599 - 2710	1.550813657	1.209463e-01	1.000000e+00
##	36	2611 - 2710	1.575332450	1.151797e-01	1.000000e+00
##	37	2462 - 2712	2.057874827	3.960215e-02	1.000000e+00
##	38	2519 - 2712	0.010685668	9.914742e-01	1.000000e+00
##	39	2546 - 2712	0.016028501	9.872117e-01	1.000000e+00
##	40	2571 - 2712	2.274328323	2.294625e-02	1.000000e+00
##	41	2574 - 2712	1.634907149	1.020685e-01	1.000000e+00
##	42	2596 - 2712	2.084907665	3.707768e-02	1.000000e+00
##	43	2599 - 2712	1.618878647	1.054734e-01	1.000000e+00
##	44	2611 - 2712	1.640249982	1.009532e-01	1.000000e+00
##	45	2710 - 2712	0.524169848	6.001604e-01	1.000000e+00
##	46	2462 - 2715	1.015010315	3.101009e-01	1.000000e+00
##	47	2519 - 2715	-0.440602960	6.595005e-01	1.000000e+00
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##	49	2571 - 2715	1.057881096	2.901097e-01	1.000000e+00
##	50	2574 - 2715	0.885568326	3.758502e-01	1.000000e+00
##	51	2596 - 2715	1.035159403	3.005945e-01	1.000000e+00
##	52	2599 - 2715	0.872481109	3.829460e-01	1.000000e+00
##	53	2611 - 2715	0.889930731	3.735031e-01	1.000000e+00
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##	55	2712 - 2715	-0.550311883	5.821055e-01	1.000000e+00
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##	57	2519 - 2724	-0.470169376	6.382340e-01	1.000000e+00
##	58	2546 - 2724	-0.464826542	6.420557e-01	1.000000e+00
##	59	2571 - 2724	1.594296598	1.108696e-01	1.000000e+00
##	60	2574 - 2724	1.154052105	2.484788e-01	1.000000e+00
##	61	2596 - 2724	1.476668800	1.397644e-01	1.000000e+00
##	62	2599 - 2724	1.138023603	2.551106e-01	1.000000e+00
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##	64	2710 - 2724	-0.419335879	6.749707e-01	1.000000e+00
##	65	2712 - 2724	-0.680031724	4.964844e-01	1.000000e+00
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##	67	2462 - 2739	1.009973042	3.125082e-01	1.000000e+00
##	68	2519 - 2739	-0.444965366	6.563448e-01	1.000000e+00
##	69	2546 - 2739	-0.440602960	6.595005e-01	1.000000e+00
##	70	2571 - 2739	1.052538262	2.925527e-01	1.000000e+00
##	71	2574 - 2739	0.881205920	3.782064e-01	1.000000e+00
##	72	2596 - 2739	1.030122131	3.029527e-01	1.000000e+00
##	73	2599 - 2739	0.868118704	3.853294e-01	1.000000e+00

##	74	2611 - 2739	0.885568326	3.758502e-01	1.000000e+00
##	75	2710 - 2739	-0.331003706	7.406417e-01	1.000000e+00
##	76	2712 - 2739	-0.555654717	5.784469e-01	1.000000e+00
##	77	2715 - 2739	-0.004362406	9.965193e-01	1.000000e+00
##	78	2724 - 2739	-0.074799673	9.403741e-01	1.000000e+00
##	79	2462 - 2751	1.227705244	2.195576e-01	1.000000e+00
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##	81	2546 - 2751	-0.516320383	6.056307e-01	1.000000e+00
##	82	2571 - 2751	1.321229979	1.864247e-01	1.000000e+00
##	83	2574 - 2751	1.009973042	3.125082e-01	1.000000e+00
##	84	2596 - 2751	1.252382737	2.104304e-01	1.000000e+00
##	85	2599 - 2751	0.994861226	3.198038e-01	1.000000e+00
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##	87	2710 - 2751	-0.478058267	6.326087e-01	1.000000e+00
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##	89	2715 - 2751	-0.012593180	9.899524e-01	1.000000e+00
##	90	2724 - 2751	-0.104752249	9.165724e-01	1.000000e+00
##	91	2739 - 2751	-0.007555908	9.939713e-01	1.000000e+00
##	92	2462 - 2825	1.508662974	1.313849e-01	1.000000e+00
##	93	2519 - 2825	-0.013087217	9.895582e-01	1.000000e+00
##	94	2546 - 2825	-0.008724811	9.930387e-01	1.000000e+00
##	95	2571 - 2825	1.581478810	1.137686e-01	1.000000e+00
##	96	2574 - 2825	1.313084069	1.891546e-01	1.000000e+00
##	97	2596 - 2825	1.528812062	1.263110e-01	1.000000e+00
##	98	2599 - 2825	1.299996853	1.936020e-01	1.000000e+00
##	99	2611 - 2825	1.317446475	1.876890e-01	1.000000e+00
##	100	2710 - 2825	0.275836421	7.826737e-01	1.000000e+00
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##	102	2715 - 2825	0.427515743	6.690037e-01	1.000000e+00
##	103	2724 - 2825	0.454140875	6.497274e-01	1.000000e+00
##	104	2739 - 2825	0.431878149	6.658300e-01	1.000000e+00
##	105	2751 - 2825	0.506245839	6.126841e-01	1.000000e+00
##	106	2462 - 2835	2.236548782	2.531585e-02	1.000000e+00
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##	110	2574 - 2835	1.699239558	8.927406e-02	1.000000e+00
##	111	2596 - 2835	2.266772415	2.340413e-02	1.000000e+00
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##	114	2710	-	2835	0.604047475	5.458121e-01	1.000000e+00
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##	119	2751	-	2835	0.732923081	4.636053e-01	1.000000e+00
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##	124	2571	-	2850	1.586821644	1.125530e-01	1.000000e+00
##	125	2574	-	2850	1.317446475	1.876890e-01	1.000000e+00
##	126	2596	-	2850	1.533849334	1.250667e-01	1.000000e+00
##	127	2599	-	2850	1.304359258	1.921111e-01	1.000000e+00
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##	129	2710	-	2850	0.281966120	7.779695e-01	1.000000e+00
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##	132	2724	-	2850	0.459483708	6.458868e-01	1.000000e+00
##	133	2739	-	2850	0.436240555	6.626622e-01	1.000000e+00
##	134	2751	-	2850	0.511283111	6.091528e-01	1.000000e+00
##	135	2825	-	2850	0.004362406	9.965193e-01	1.000000e+00
##	136	2835	-	2850	0.025702783	9.794944e-01	1.000000e+00
##	137	2462	-	2865	1.070420307	2.844302e-01	1.000000e+00
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##	139	2546	-	2865	-0.388254094	6.978280e-01	1.000000e+00
##	140	2571	-	2865	1.116652268	2.641430e-01	1.000000e+00
##	141	2574	-	2865	0.933554787	3.505336e-01	1.000000e+00
##	142	2596	-	2865	1.090569395	2.754624e-01	1.000000e+00
##	143	2599	-	2865	0.920467570	3.573285e-01	1.000000e+00
##	144	2611	-	2865	0.937917192	3.482870e-01	1.000000e+00
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##	146	2712	-	2865	-0.491540711	6.230441e-01	1.000000e+00
##	147	2715	-	2865	0.047986461	9.617270e-01	1.000000e+00
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##	164	2715	-	2898	0.043624055	9.652041e-01	1.000000e+00
##	165	2724	-	2898	-0.016028501	9.872117e-01	1.000000e+00
##	166	2739	-	2898	0.047986461	9.617270e-01	1.000000e+00
##	167	2751	-	2898	0.062965900	9.497937e-01	1.000000e+00
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##	177	2596	-	2901	1.320245841	1.867530e-01	1.000000e+00
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##	184	2739	-	2901	0.047854084	9.618325e-01	1.000000e+00
##	185	2751	-	2901	0.067863104	9.458946e-01	1.000000e+00
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##	189	2865	-	2901	-0.012593180	9.899524e-01	1.000000e+00
##	190	2898	-	2901	-0.007555908	9.939713e-01	1.000000e+00
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##	194	2571	-	2926	1.541405242	1.232182e-01	1.000000e+00
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##	223	2739	-	2959	-0.198854353	8.423767e-01	1.000000e+00
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##	230	2901	-	2959	-0.360483261	7.184858e-01	1.000000e+00
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## 251 2901 - 3012 -0.037779540 9.698635e-01 1.000000e+00
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## 253 2959 - 3012 0.211091544 8.328158e-01 1.000000e+00
## 254 2462 - 3020 -0.595247290 5.516782e-01 1.000000e+00
## 255 2519 - 3020 -2.273657424 2.298659e-02 1.000000e+00
## 256 2546 - 3020 -2.267545442 2.335693e-02 1.000000e+00
## 257 2571 - 3020 -0.758871850 4.479292e-01 1.000000e+00
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## 260 2599 - 3020 -0.433950745 6.643242e-01 1.000000e+00
## 261 2611 - 3020 -0.409502816 6.821707e-01 1.000000e+00
## 262 2710 - 3020 -11.199475036 4.101567e-29 2.875199e-26
## 263 2712 - 3020 -3.887918795 1.011074e-04 6.844974e-02
## 264 2715 - 3020 -1.656347210 9.765153e-02 1.000000e+00
## 265 2724 - 3020 -2.952323363 3.153925e-03 1.000000e+00
## 266 2739 - 3020 -1.650235227 9.889483e-02 1.000000e+00
## 267 2751 - 3020 -2.299624424 2.146951e-02 1.000000e+00
## 268 2825 - 3020 -2.255321477 2.411316e-02 1.000000e+00
## 269 2835 - 3020 -5.234991370 1.649926e-07 1.141749e-04
## 270 2850 - 3020 -2.261433459 2.373243e-02 1.000000e+00
## 271 2865 - 3020 -1.723579015 8.478387e-02 1.000000e+00
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##	278	2519	-	3025	-0.431878149	6.658300e-01	1.000000e+00
##	279	2546	-	3025	-0.427515743	6.690037e-01	1.000000e+00
##	280	2571	-	3025	1.068566764	2.852649e-01	1.000000e+00
##	281	2574	-	3025	0.894293137	3.711651e-01	1.000000e+00
##	282	2596	-	3025	1.045233947	2.959149e-01	1.000000e+00
##	283	2599	-	3025	0.881205920	3.782064e-01	1.000000e+00
##	284	2611	-	3025	0.898655542	3.688362e-01	1.000000e+00
##	285	2710	-	3025	-0.312614611	7.545735e-01	1.000000e+00
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##	288	2724	-	3025	-0.058771172	9.531344e-01	1.000000e+00
##	289	2739	-	3025	0.013087217	9.895582e-01	1.000000e+00
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##	294	2865	-	3025	-0.039261650	9.686818e-01	1.000000e+00
##	295	2898	-	3025	-0.034899244	9.721601e-01	1.000000e+00
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##	297	2926	-	3025	-0.021371335	9.829494e-01	1.000000e+00
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##	299	3012	-	3025	0.004362406	9.965193e-01	1.000000e+00
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##	301	2462	-	3029	1.045696909	2.957010e-01	1.000000e+00
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##	304	2571	-	3029	1.189216221	2.343546e-01	1.000000e+00
##	305	2574	-	3029	0.788141269	4.306141e-01	1.000000e+00
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##	325	3025	-	3029	-0.404249581	6.860292e-01	1.000000e+00
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##	329	2571	-	3040	1.073909598	2.828632e-01	1.000000e+00
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##	337	2724	-	3040	-0.053428338	9.573906e-01	1.000000e+00
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##	339	2751	-	3040	0.027704996	9.778974e-01	1.000000e+00
##	340	2825	-	3040	-0.414428527	6.785603e-01	1.000000e+00
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##	343	2865	-	3040	-0.034899244	9.721601e-01	1.000000e+00
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## 378 3040 - 3051 0.004362406 9.965193e-01 9.965193e-01
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##	403	3025	-	3068	-0.832240825	4.052730e-01	1.000000e+00
##	404	3029	-	3068	-1.091058521	2.752471e-01	1.000000e+00
##	405	3040	-	3068	-0.838360242	4.018284e-01	1.000000e+00
##	406	3051	-	3068	-0.844479660	3.984014e-01	1.000000e+00
##	407	2462	-	3090	0.106935800	9.148399e-01	1.000000e+00
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##	409	2546	-	3090	-1.726721843	8.421763e-02	1.000000e+00
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##	411	2574	-	3090	0.086784980	9.308424e-01	1.000000e+00
##	412	2596	-	3090	0.139839123	8.887871e-01	1.000000e+00
##	413	2599	-	3090	0.068829467	9.451254e-01	1.000000e+00
##	414	2611	-	3090	0.092770151	9.260862e-01	1.000000e+00
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##	417	2715	-	3090	-1.128204739	2.592335e-01	1.000000e+00
##	418	2724	-	3090	-1.975876988	4.816871e-02	1.000000e+00
##	419	2739	-	3090	-1.122219568	2.617691e-01	1.000000e+00
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##	428	2959	-	3090	-3.398611739	6.772879e-04	4.551375e-01
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##	431	3025	-	3090	-1.140175081	2.542134e-01	1.000000e+00
##	432	3029	-	3090	-1.723954379	8.471608e-02	1.000000e+00
##	433	3040	-	3090	-1.146160252	2.517289e-01	1.000000e+00

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## 496 3093 - 3099 0.968833866 3.326281e-01 1.000000e+00
## 497 2462 - 3106 -0.168955240 8.658318e-01 1.000000e+00
## 498 2519 - 3106 -1.957269074 5.031584e-02 1.000000e+00
## 499 2546 - 3106 -1.951200023 5.103326e-02 1.000000e+00
## 500 2571 - 3106 -0.239427032 8.107745e-01 1.000000e+00
## 501 2574 - 3106 -0.112277451 9.106034e-01 1.000000e+00
## 502 2596 - 3106 -0.135164192 8.924821e-01 1.000000e+00
## 503 2599 - 3106 -0.130484605 8.961830e-01 1.000000e+00
## 504 2611 - 3106 -0.106208399 9.154170e-01 1.000000e+00
## 505 2710 - 3106 -7.868600289 3.586310e-15 2.503244e-12
## 506 2712 - 3106 -3.306130716 9.459395e-04 6.318876e-01
## 507 2715 - 3106 -1.344294883 1.788530e-01 1.000000e+00
## 508 2724 - 3106 -2.389176126 1.688620e-02 1.000000e+00
## 509 2739 - 3106 -1.338225832 1.808228e-01 1.000000e+00
## 510 2751 - 3106 -1.850059881 6.430492e-02 1.000000e+00
## 511 2825 - 3106 -1.939061920 5.249380e-02 1.000000e+00
## 512 2835 - 3106 -4.359263482 1.305009e-05 8.900162e-03
## 513 2850 - 3106 -1.945130971 5.175922e-02 1.000000e+00
```

##	514	2865	-	3106	-1.411054449	1.582286e-01	1.000000e+00
##	515	2898	-	3106	-1.404985397	1.600256e-01	1.000000e+00
##	516	2901	-	3106	-1.942985263	5.201794e-02	1.000000e+00
##	517	2926	-	3106	-2.317857436	2.045707e-02	1.000000e+00
##	518	2959	-	3106	-5.186971738	2.137412e-07	1.476951e-04
##	519	3012	-	3106	-1.350363935	1.768993e-01	1.000000e+00
##	520	3020	-	3106	1.336613212	1.813489e-01	1.000000e+00
##	521	3025	-	3106	-1.356432986	1.749614e-01	1.000000e+00
##	522	3029	-	3106	-2.387677011	1.695524e-02	1.000000e+00
##	523	3040	-	3106	-1.362502037	1.730395e-01	1.000000e+00
##	524	3051	-	3106	-1.368571089	1.711334e-01	1.000000e+00
##	525	3068	-	3106	-2.420772273	1.548758e-02	1.000000e+00
##	526	3090	-	3106	-0.657652806	5.107613e-01	1.000000e+00
##	527	3093	-	3106	0.294583527	7.683120e-01	1.000000e+00
##	528	3099	-	3106	-0.976514772	3.288094e-01	1.000000e+00
##	529	2462	-	3119	-0.486096751	6.268986e-01	1.000000e+00
##	530	2519	-	3119	-1.740599813	8.175375e-02	1.000000e+00
##	531	2546	-	3119	-1.736237407	8.252187e-02	1.000000e+00
##	532	2571	-	3119	-0.534283382	5.931455e-01	1.000000e+00
##	533	2574	-	3119	-0.414428527	6.785603e-01	1.000000e+00
##	534	2596	-	3119	-0.465947663	6.412530e-01	1.000000e+00
##	535	2599	-	3119	-0.427515743	6.690037e-01	1.000000e+00
##	536	2611	-	3119	-0.410066121	6.817574e-01	1.000000e+00
##	537	2710	-	3119	-2.151524086	3.143486e-02	1.000000e+00
##	538	2712	-	3119	-2.142476361	3.215517e-02	1.000000e+00
##	539	2715	-	3119	-1.299996853	1.936020e-01	1.000000e+00
##	540	2724	-	3119	-1.661621318	9.658873e-02	1.000000e+00
##	541	2739	-	3119	-1.295634447	1.951015e-01	1.000000e+00
##	542	2751	-	3119	-1.488513886	1.366154e-01	1.000000e+00
##	543	2825	-	3119	-1.727512596	8.407564e-02	1.000000e+00
##	544	2835	-	3119	-2.241853871	2.497082e-02	1.000000e+00
##	545	2850	-	3119	-1.731875002	8.329582e-02	1.000000e+00
##	546	2865	-	3119	-1.347983314	1.776637e-01	1.000000e+00
##	547	2898	-	3119	-1.343620908	1.790710e-01	1.000000e+00
##	548	2901	-	3119	-1.543923878	1.226068e-01	1.000000e+00
##	549	2926	-	3119	-1.624221481	1.043285e-01	1.000000e+00
##	550	2959	-	3119	-1.618368507	1.055832e-01	1.000000e+00
##	551	3012	-	3119	-1.304359258	1.921111e-01	1.000000e+00
##	552	3020	-	3119	-0.165023523	8.689255e-01	1.000000e+00
##	553	3025	-	3119	-1.308721664	1.906287e-01	1.000000e+00

```
## 554 3029 - 3119 -1.340712638 1.800138e-01 1.000000e+00
## 555 3040 - 3119 -1.313084069 1.891546e-01 1.000000e+00
## 556 3051 - 3119 -1.317446475 1.876890e-01 1.000000e+00
## 557 3068 - 3119 -1.003584524 3.155789e-01 1.000000e+00
## 558 3090 - 3119 -0.655376228 5.122256e-01 1.000000e+00
## 559 3093 - 3119 -0.334451092 7.380392e-01 1.000000e+00
## 560 3099 - 3119 -0.751138964 4.525690e-01 1.000000e+00
## 561 3106 - 3119 -0.464282431 6.424454e-01 1.000000e+00
## 562 2462 - 3154 -1.525939279 1.270250e-01 1.000000e+00
## 563 2519 - 3154 -2.942747220 3.253139e-03 1.000000e+00
## 564 2546 - 3154 -2.936597278 3.318347e-03 1.000000e+00
## 565 2571 - 3154 -1.900123024 5.741698e-02 1.000000e+00
## 566 2574 - 3154 -1.073164869 2.831972e-01 1.000000e+00
## 567 2596 - 3154 -1.491258841 1.358936e-01 1.000000e+00
## 568 2599 - 3154 -1.091614695 2.750025e-01 1.000000e+00
## 569 2611 - 3154 -1.067014927 2.859651e-01 1.000000e+00
## 570 2710 - 3154 -19.109713031 2.096184e-81 1.473617e-78
## 571 2712 - 3154 -5.086401744 3.649206e-07 2.517952e-04
## 572 2715 - 3154 -2.321603083 2.025432e-02 1.000000e+00
## 573 2724 - 3154 -4.133693821 3.569790e-05 2.427457e-02
## 574 2739 - 3154 -2.315453141 2.058815e-02 1.000000e+00
## 575 2751 - 3154 -3.251291078 1.148822e-03 7.651153e-01
## 576 2825 - 3154 -2.924297394 3.452347e-03 1.000000e+00
## 577 2835 - 3154 -7.001083830 2.539899e-12 1.767770e-09
## 578 2850 - 3154 -2.930447336 3.384744e-03 1.000000e+00
## 579 2865 - 3154 -2.389252445 1.688270e-02 1.000000e+00
## 580 2898 - 3154 -2.383102503 1.716741e-02 1.000000e+00
## 581 2901 - 3154 -3.346662283 8.179079e-04 5.479983e-01
## 582 2926 - 3154 -4.059594316 4.915805e-05 3.337832e-02
## 583 2959 - 3154 -13.995080441 1.670406e-44 1.172625e-41
## 584 3012 - 3154 -2.327753025 1.992522e-02 1.000000e+00
## 585 3020 - 3154 -4.139195060 3.485265e-05 2.373466e-02
## 586 3025 - 3154 -2.333902967 1.960080e-02 1.000000e+00
## 587 3029 - 3154 -5.277426839 1.310105e-07 9.079026e-05
## 588 3040 - 3154 -2.340052909 1.928101e-02 1.000000e+00
## 589 3051 - 3154 -2.346202851 1.896578e-02 1.000000e+00
## 590 3068 - 3154 -9.965782480 2.151727e-23 1.506209e-20
## 591 3090 - 3154 -4.444436949 8.812235e-06 6.018756e-03
## 592 3093 - 3154 -2.332282184 1.968585e-02 1.000000e+00
## 593 3099 - 3154 -4.820685579 1.430657e-06 9.800000e-04
```

##	594	3106	-	3154	-4.832544692	1.347988e-06	9.247200e-04
##	595	3119	-	3154	-0.488920384	6.248981e-01	1.000000e+00
##	596	2462	-	3199	0.610767936	5.413532e-01	1.000000e+00
##	597	2519	-	3199	-1.025084859	3.053231e-01	1.000000e+00
##	598	2546	-	3199	-1.020047587	3.077059e-01	1.000000e+00
##	599	2571	-	3199	0.645409018	5.186622e-01	1.000000e+00
##	600	2574	-	3199	0.506245839	6.126841e-01	1.000000e+00
##	601	2596	-	3199	0.635445428	5.251379e-01	1.000000e+00
##	602	2599	-	3199	0.491134023	6.233317e-01	1.000000e+00
##	603	2611	-	3199	0.511283111	6.091528e-01	1.000000e+00
##	604	2710	-	3199	-1.339424513	1.804325e-01	1.000000e+00
##	605	2712	-	3199	-1.388812075	1.648899e-01	1.000000e+00
##	606	2715	-	3199	-0.516320383	6.056307e-01	1.000000e+00
##	607	2724	-	3199	-0.780573210	4.350536e-01	1.000000e+00
##	608	2739	-	3199	-0.511283111	6.091528e-01	1.000000e+00
##	609	2751	-	3199	-0.616937309	5.372761e-01	1.000000e+00
##	610	2825	-	3199	-1.009973042	3.125082e-01	1.000000e+00
##	611	2835	-	3199	-1.488513886	1.366154e-01	1.000000e+00
##	612	2850	-	3199	-1.015010315	3.101009e-01	1.000000e+00
##	613	2865	-	3199	-0.571730376	5.675047e-01	1.000000e+00
##	614	2898	-	3199	-0.566693104	5.709227e-01	1.000000e+00
##	615	2901	-	3199	-0.684800413	4.934699e-01	1.000000e+00
##	616	2926	-	3199	-0.733265743	4.633964e-01	1.000000e+00
##	617	2959	-	3199	-0.592222500	5.537016e-01	1.000000e+00
##	618	3012	-	3199	-0.521357655	6.021176e-01	1.000000e+00
##	619	3020	-	3199	1.443153502	1.489772e-01	1.000000e+00
##	620	3025	-	3199	-0.526394927	5.986138e-01	1.000000e+00
##	621	3029	-	3199	-0.273129790	7.847534e-01	1.000000e+00
##	622	3040	-	3199	-0.531432199	5.951193e-01	1.000000e+00
##	623	3051	-	3199	-0.536469471	5.916341e-01	1.000000e+00
##	624	3068	-	3199	0.270433961	7.868264e-01	1.000000e+00
##	625	3090	-	3199	0.707421447	4.793046e-01	1.000000e+00
##	626	3093	-	3199	1.076911742	2.815197e-01	1.000000e+00
##	627	3099	-	3199	0.575808155	5.647449e-01	1.000000e+00
##	628	3106	-	3199	1.005283680	3.147603e-01	1.000000e+00
##	629	3119	-	3199	0.984786682	3.247289e-01	1.000000e+00
##	630	3154	-	3199	2.384280124	1.711257e-02	1.000000e+00
##	631	2462	-	3206	0.652326728	5.141904e-01	1.000000e+00
##	632	2519	-	3206	-0.754696159	4.504313e-01	1.000000e+00
##	633	2546	-	3206	-0.750333754	4.530537e-01	1.000000e+00



##	634	2571	-	3206	0.673197061	5.008219e-01	1.000000e+00
##	635	2574	-	3206	0.571475126	5.676776e-01	1.000000e+00
##	636	2596	-	3206	0.672475816	5.012808e-01	1.000000e+00
##	637	2599	-	3206	0.558387910	5.765795e-01	1.000000e+00
##	638	2611	-	3206	0.575837532	5.647250e-01	1.000000e+00
##	639	2710	-	3206	-0.766212281	4.435500e-01	1.000000e+00
##	640	2712	-	3206	-0.934995918	3.497904e-01	1.000000e+00
##	641	2715	-	3206	-0.314093199	7.534503e-01	1.000000e+00
##	642	2724	-	3206	-0.454140875	6.497274e-01	1.000000e+00
##	643	2739	-	3206	-0.309730794	7.567657e-01	1.000000e+00
##	644	2751	-	3206	-0.350090406	7.262709e-01	1.000000e+00
##	645	2825	-	3206	-0.741608943	4.583243e-01	1.000000e+00
##	646	2835	-	3206	-0.951002980	3.416029e-01	1.000000e+00
##	647	2850	-	3206	-0.745971348	4.556847e-01	1.000000e+00
##	648	2865	-	3206	-0.362079660	7.172925e-01	1.000000e+00
##	649	2898	-	3206	-0.357717255	7.205549e-01	1.000000e+00
##	650	2901	-	3206	-0.405500399	6.851097e-01	1.000000e+00
##	651	2926	-	3206	-0.416741038	6.768678e-01	1.000000e+00
##	652	2959	-	3206	-0.235565926	8.137695e-01	1.000000e+00
##	653	3012	-	3206	-0.318455605	7.501394e-01	1.000000e+00
##	654	3020	-	3206	1.216284482	2.238766e-01	1.000000e+00
##	655	3025	-	3206	-0.322818010	7.468331e-01	1.000000e+00
##	656	3029	-	3206	-0.026174433	9.791182e-01	1.000000e+00
##	657	3040	-	3206	-0.327180416	7.435314e-01	1.000000e+00
##	658	3051	-	3206	-0.331542821	7.402345e-01	1.000000e+00
##	659	3068	-	3206	0.379403905	7.043880e-01	1.000000e+00
##	660	3090	-	3206	0.697272425	4.856323e-01	1.000000e+00
##	661	3093	-	3206	0.980087113	3.270431e-01	1.000000e+00
##	662	3099	-	3206	0.601509689	5.475006e-01	1.000000e+00
##	663	3106	-	3206	0.907323183	3.642359e-01	1.000000e+00
##	664	3119	-	3206	0.985903653	3.241804e-01	1.000000e+00
##	665	3154	-	3206	1.878807264	6.027081e-02	1.000000e+00
##	666	3199	-	3206	0.153636797	8.778961e-01	1.000000e+00
##	667	2462	-	3259	0.966228117	3.339300e-01	1.000000e+00
##	668	2519	-	3259	-1.140347607	2.541415e-01	1.000000e+00
##	669	2546	-	3259	-1.134281928	2.566763e-01	1.000000e+00
##	670	2571	-	3259	1.129142231	2.588378e-01	1.000000e+00
##	671	2574	-	3259	0.703618736	4.816702e-01	1.000000e+00
##	672	2596	-	3259	0.999982811	3.173188e-01	1.000000e+00
##	673	2599	-	3259	0.685421700	4.930779e-01	1.000000e+00

```
## 674 2611 - 3259 0.709684415 4.778999e-01 1.000000e+00
## 675 2710 - 3259 -3.964245110 7.362857e-05 4.992017e-02
## 676 2712 - 3259 -1.932765980 5.326503e-02 1.000000e+00
## 677 2715 - 3259 -0.527714052 5.976978e-01 1.000000e+00
## 678 2724 - 3259 -1.017245253 3.090368e-01 1.000000e+00
## 679 2739 - 3259 -0.521648373 6.019152e-01 1.000000e+00
## 680 2751 - 3259 -0.713067912 4.758037e-01 1.000000e+00
## 681 2825 - 3259 -1.122150571 2.617984e-01 1.000000e+00
## 682 2835 - 3259 -2.496653462 1.253714e-02 1.000000e+00
## 683 2850 - 3259 -1.128216249 2.592286e-01 1.000000e+00
## 684 2865 - 3259 -0.594436518 5.522202e-01 1.000000e+00
## 685 2898 - 3259 -0.588370840 5.562834e-01 1.000000e+00
## 686 2901 - 3259 -0.805893320 4.203044e-01 1.000000e+00
## 687 2926 - 3259 -0.946038085 3.441292e-01 1.000000e+00
## 688 2959 - 3259 -1.459400321 1.444550e-01 1.000000e+00
## 689 3012 - 3259 -0.533779731 5.934939e-01 1.000000e+00
## 690 3020 - 3259 4.914607795 8.896037e-07 6.120473e-04
## 691 3025 - 3259 -0.539845410 5.893036e-01 1.000000e+00
## 692 3029 - 3259 -0.301244257 7.632282e-01 1.000000e+00
## 693 3040 - 3259 -0.545911088 5.851271e-01 1.000000e+00
## 694 3051 - 3259 -0.551976767 5.809643e-01 1.000000e+00
## 695 3068 - 3259 1.285528041 1.986078e-01 1.000000e+00
## 696 3090 - 3259 2.010758023 4.435102e-02 1.000000e+00
## 697 3093 - 3259 2.371332999 1.772405e-02 1.000000e+00
## 698 3099 - 3259 1.693791241 9.030496e-02 1.000000e+00
## 699 3106 - 3259 3.186375392 1.440675e-03 9.580491e-01
## 700 3119 - 3259 1.279858218 2.005950e-01 1.000000e+00
## 701 3154 - 3259 8.871435728 7.220882e-19 5.047397e-16
## 702 3199 - 3259 0.130799439 8.959340e-01 1.000000e+00
## 703 3206 - 3259 -0.090985181 9.275044e-01 1.000000e+00
```

*#count and topo*

```
kruskal.test(seedling ~ Small.Topo, data = compiled)
```

```
##
```

```
## Kruskal-Wallis rank sum test
```

```
##
```

```
## data: seedling by Small.Topo
```

```
## Kruskal-Wallis chi-squared = 19.91, df = 5, p-value = 0.001299
```

```
dunnTest(seedling ~ Small.Topo, data = compiled, method = "holm")
```

```
## Warning: Small.Topo was coerced to a factor.
```

```
## Dunn (1964) Kruskal-Wallis multiple comparison
```

```
## p-values adjusted with the Holm method.
```

##	Comparison	Z	P.unadj	P.adj
## 1	- C	-1.64995413	0.0989523191	0.692666234
## 2	- CC	-2.77143854	0.0055809208	0.072551970
## 3	C - CC	0.91560215	0.3598756022	1.000000000
## 4	- CV	-1.76458549	0.0776334556	0.698701101
## 5	C - CV	1.15868640	0.2465840382	1.000000000
## 6	CC - CV	1.65271132	0.0983896295	0.787117036
## 7	- F	-2.72333348	0.0064626786	0.077552144
## 8	C - F	0.92062006	0.3572488229	1.000000000
## 9	CC - F	0.05276867	0.9579162210	0.957916221
## 10	CV - F	-1.55845731	0.1191248811	0.714749287
## 11	- S	-3.51409667	0.0004412522	0.006618783
## 12	C - S	0.69504641	0.4870262176	0.974052435
## 13	CC - S	-2.04006422	0.0413439298	0.454783228
## 14	CV - S	-3.02272260	0.0025051176	0.035071647
## 15	F - S	-1.95729974	0.0503122382	0.503122382

```
#count topo and height
```

```
kruskal.test(seedling ~ Large.Topo, data = compiled)
```

```
##
```

```
## Kruskal-Wallis rank sum test
```

```
##
```

```
## data: seedling by Large.Topo
```

```
## Kruskal-Wallis chi-squared = 22.606, df = 4, p-value = 0.0001518
```

```
dunnTest(seedling ~ Large.Topo, data = compiled, method = "holm")
```

```
## Warning: Large.Topo was coerced to a factor.
```

```
## Dunn (1964) Kruskal-Wallis multiple comparison
```

```
## p-values adjusted with the Holm method.
```

##	Comparison	Z	P.unadj	P.adj
## 1	- CC	-2.6492878	0.0080661620	0.056463134

## 2	- CV	-3.4076933	0.0006551450	0.005896305
## 3	CC - CV	-1.9464954	0.0515952583	0.154785775
## 4	- F	-2.1592608	0.0308299412	0.123319765
## 5	CC - F	1.0522259	0.2926959084	0.585391817
## 6	CV - F	2.4076327	0.0160563258	0.080281629
## 7	- S	-3.5021182	0.0004615747	0.004615747
## 8	CC - S	-2.5251072	0.0115663008	0.069397805
## 9	CV - S	0.6958508	0.4865222420	0.486522242
## 10	F - S	-3.0711335	0.0021324777	0.017059822

#substrate

ash

##	SITE..	seedling	SITE.NAME	Transect	Subplot	Height..cm.
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Substrate	Small.Topo
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## 1	6	9	LAKE	A	14-16	15.0
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A

F

## 2	6	10	LAKE	A	14-16	6.0
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A

CC

## 3	6	11	LAKE	A	14-16	3.5
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A

F

## 4	7	28	RAWAH	A	16-18	21.0
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M

F

A/

## 5	7	29	RAWAH	B	14-16	22.0
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A

F

## 6	7	30	RAWAH	B	14-16	19.0
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A

F

## 7	7	31	RAWAH	B	14-16	26.0
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A

F

## 8	7	32	RAWAH	B	14-16	24.0
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A

F

## 9	7	33	RAWAH	B	16-18	19.0
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A

CC

## 10	7	34	RAWAH	B	16-18	18.0
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A

CC

## 11	7	35	RAWAH	B	16-18	11.0
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A

CC

## 12	7	40	RAWAH	B	34-36	23.0
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A

S

## 13	7	41	RAWAH	B	34-36	13.0
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A

CV

## 14	7	42	RAWAH	B	34-36	29.0	
A	CV						
## 15	7	44	RAWAH	B	36-38	14.0	
A	F						
## 16	7	45	RAWAH	B	36-38	20.0	
A	F						
## 17	7	49	RAWAH	B	40-42	26.0	
A	CC						
## 18	8	93	RAWAH	B	40-42	9.0	
A	F						
## 19	11	96	BLUE	A	20-22	29.0	A/
M	S						
## 20	11	97	BLUE	A	26-28	25.0	A/
M	CC						
## 21	19	107	RAWAH	A	0-2	14.0	
A	CC						
## 22	19	108	RAWAH	A	0-2	1.5	
A	CC						
## 23	20	109	SNOW	A	2-4	39.0	A/
B	S						
## 24	20	110	SNOW	A	2-4	19.0	A/
B	S						
## 25	20	111	SNOW	A	2-4	3.0	A/
B	S						
## 26	20	112	SNOW	A	2-4	10.0	A/
B	F						
## 27	20	113	SNOW	A	2-4	7.0	A/
B	S						
## 28	20	114	SNOW	A	2-4	12.0	A/
B	F						
## 29	20	115	SNOW	A	2-4	18.0	A/
B	F						
## 30	20	116	SNOW	A	2-4	15.5	A/
B	F						
## 31	20	117	SNOW	A	2-4	20.0	A/
B	CC						
## 32	20	118	SNOW	A	2-4	22.0	A/
B	CV						
## 33	20	120	SNOW	A	4-6	12.0	A/
B	S						
## 34	20	121	SNOW	A	4-6	7.0	A/
B	S						

## 35	20	122	SNOW	A	4-6	8.0	A/
B	S						
## 36	20	123	SNOW	A	4-6	9.0	A/
B	CV						
## 37	20	124	SNOW	A	4-6	9.5	
A	CV						
## 38	20	125	SNOW	A	4-6	11.0	
A	CV						
## 39	20	128	SNOW	A	4-6	12.0	A/
B	S						
## 40	20	130	SNOW	A	4-6	8.5	A/
B	S						
## 41	20	131	SNOW	A	8-10	22.0	
A	F						
## 42	20	133	SNOW	B	10-12	7.0	A/
B	F						
## 43	20	138	SNOW	B	16-18	15.5	
A	CC						
## 44	20	139	SNOW	B	16-18	17.0	
A	F						
## 45	20	140	SNOW	B	16-18	6.5	
A	F						
## 46	20	141	SNOW	B	16-18	4.0	
A	F						
## 47	20	142	SNOW	B	18-20	20.5	
A	CC						
## 48	20	143	SNOW	B	18-20	18.5	A/
B	CC						
## 49	20	144	SNOW	B	18-20	5.5	
A	CC						
## 50	20	145	SNOW	B	18-20	11.5	
A	CC						
## 51	20	146	SNOW	B	18-20	11.0	
A	CC						
## 52	20	147	SNOW	B	18-20	8.0	
A	CC						
## 53	20	148	SNOW	B	18-20	13.5	
A	S						
## 54	20	149	SNOW	B	18-20	1.5	
A	CC						
## 55	20	150	SNOW	B	18-20	16.0	
A	S						

## 56	20	151	SNOW	B	18-20	22.5	
A	CC						
## 57	20	152	SNOW	B	18-20	12.5	
A	S						
## 58	20	153	SNOW	B	18-20	17.5	
A	CC						
## 59	20	154	SNOW	B	18-20	17.5	
A	CC						
## 60	20	155	SNOW	B	18-20	11.5	
A	S						
## 61	20	159	SNOW	B	18-20	18.5	A/
B	CC						
## 62	20	160	SNOW	B	18-20	9.5	
A	CC						
## 63	20	161	SNOW	B	18-20	13.5	
A	CV						
## 64	20	162	SNOW	B	18-20	18.0	
A	S						
## 65	20	163	SNOW	B	18-20	31.5	
A	CV						
## 66	20	165	SNOW	B	20-22	22.0	
A	CV						
## 67	20	166	SNOW	B	20-22	18.5	
A	S						
## 68	20	167	SNOW	B	20-22	29.5	
A	CC						
## 69	20	168	SNOW	B	50-52	4.5	
A	CC						
## 70	21	169	LONG	A	24-26	23.5	
A	CC						
## 71	21	170	LONG	A	42-44	21.5	A/
L	F						
## 72	21	171	LONG	A	48-50	21.0	A/
B	CC						
## 73	21	172	LONG	A	48-50	5.0	A/
B	S						
## 74	21	173	LONG	A	48-50	10.0	
A	CC						
## 75	21	175	LONG	A	48-50	14.5	A/
L	CC						
## 76	21	176	LONG	B	20-22	7.0	A/
L	CC						

## 77	22	177	MONTY	B	10-12	22.5	
A	S						
## 78	23	178	MONTY	A	32-34	9.5	
A	S						
## 79	23	179	MONTY	A	32-34	9.0	
A	CC						
## 80	23	180	MONTY	A	32-34	7.9	
A	CC						
## 81	23	181	MONTY	A	32-34	8.8	
A	CV						
## 82	23	182	MONTY	A	32-34	8.0	
A	CV						
## 83	23	183	MONTY	A	32-34	15.5	
A	CV						
## 84	23	184	MONTY	A	32-34	6.0	
A	CV						
## 85	23	185	MONTY	A	32-34	14.0	
A	CV						
## 86	23	186	MONTY	A	34-36	8.0	A/
L	F						
## 87	23	187	MONTY	A	34-36	1.0	
A	S						
## 88	23	188	MONTY	A	34-36	5.5	
A	CC						
## 89	23	189	MONTY	A	34-36	6.9	
A	CC						
## 90	23	190	MONTY	A	34-36	1.1	
A	CC						
## 91	23	191	MONTY	A	34-36	1.2	
A	S						
## 92	23	192	MONTY	A	34-36	1.6	
A	S						
## 93	23	193	MONTY	A	34-36	4.3	A/
L	CV						
## 94	23	194	MONTY	A	34-36	4.6	A/
L	CV						
## 95	23	195	MONTY	A	34-36	5.0	A/
L	CV						
## 96	23	196	MONTY	A	34-36	4.0	
A	CC						
## 97	23	197	MONTY	A	34-36	4.0	
A	CV						



## 98	23	198	MONTY	A	36-38	5.6	
A	CV						
## 99	23	199	MONTY	A	36-38	7.2	
A	CV						
## 100	23	200	MONTY	A	36-38	5.7	
A	S						
## 101	23	201	MONTY	A	36-38	7.4	
A	CV						
## 102	23	202	MONTY	A	36-38	2.1	
A	F						
## 103	23	203	MONTY	A	36-38	3.3	
A	S						
## 104	23	204	MONTY	A	36-38	4.8	
A	CC						
## 105	23	205	MONTY	A	36-38	5.0	
A	CC						
## 106	23	206	MONTY	A	38-40	7.4	
A	S						
## 107	24	207	MONTY	A	22-24	4.8	
A	F						
## 108	24	208	MONTY	B	16-18	6.1	A/
L	CC						
## 109	25	209	LONG	A	0-2	4.2	
A	F						
## 110	25	212	LONG	A	4-6	8.1	A/
L	CC						
## 111	25	234	LONG	A	8-10	7.9	A/
B	CC						
## 112	25	241	LONG	A	12-14	11.9	A/
B	S						
## 113	25	242	LONG	A	12-14	6.8	A/
B	S						
## 114	25	243	LONG	A	12-14	2.0	
A	CC						
## 115	25	253	LONG	A	14-16	3.5	
A	F						
## 116	25	254	LONG	A	14-16	2.9	
A	F						
## 117	25	261	LONG	A	16-18	4.0	A/
B	CC						
## 118	25	262	LONG	A	16-18	4.0	A/
B	CC						

## 119	25	263	LONG	A	16-18	3.0	A/
B	S						
## 120	25	264	LONG	A	16-18	2.0	A/
B	S						
## 121	25	265	LONG	A	20-22	6.5	
A	S						
## 122	25	268	LONG	B	36-38	4.0	A/
L	F						
## 123	26	271	LONG	A	24-26	11.4	
A	CC						
## 124	26	272	LONG	A	24-26	13.2	
A	S						
## 125	26	273	LONG	A	26-28	4.7	
A	F						
## 126	26	275	LONG	A	26-28	15.9	
A	F						
## 127	26	276	LONG	A	26-28	7.1	
A	F						
## 128	26	277	LONG	A	30-32	9.4	A/
L	F						
## 129	26	278	LONG	A	36-38	1.6	
A	F						
## 130	26	279	LONG	A	36-38	15.3	
A	F						
## 131	26	280	LONG	A	36-38	1.1	
A	S						
## 132	26	281	LONG	A	40-42	7.4	
A	F						
## 133	26	282	LONG	B	0-2	16.5	
A	S						
## 134	26	283	LONG	B	40-42	23.0	A/
B	CC						
## 135	26	284	LONG	B	40-42	12.5	
A	CC						
## 136	26	285	LONG	B	40-42	5.0	
A	CC						
## 137	27	286	LONG	A	0-2	5.5	A/
B	F						
## 138	27	288	LONG	A	0-2	5.6	
A	F						
## 139	27	289	LONG	A	0-2	6.5	
A	F						

## 140	27	290	LONG	B	0-2	19.8	
A	F						
## 141	27	291	LONG	B	0-2	9.0	A/
B	S						
## 142	27	292	LONG	B	0-2	10.2	A/
B	CC						
## 143	27	293	LONG	B	0-2	22.4	
A	S						
## 144	27	297	LONG	B	32-34	4.6	
A	S						
## 145	27	298	LONG	B	34-36	15.5	
A	S						
## 146	27	299	LONG	B	34-36	2.0	
A	F						
## 147	27	300	LONG	B	34-36	1.0	
A	F						
## 148	27	301	LONG	B	34-36	0.5	
A	F						
## 149	28	303	FISH	B	16-18	20.0	
A	F						
## 150	28	304	FISH	B	44-46	17.0	
A	CC						
## 151	34	312	CAM	A	14-16	15.0	
A	S						
## 152	34	314	CAM	A	20-22	0.9	
A	CC						
## 153	34	315	CAM	A	30-32	0.5	
A	CC						
## 154	34	316	CAM	A	30-32	13.1	
A	CC						
## 155	34	317	CAM	A	30-32	16.3	
A	CC						
## 156	34	318	CAM	A	30-32	34.9	
A	CC						
## 157	34	319	CAM	A	32-34	1.2	
A	CV						
## 158	34	320	CAM	A	34-36	4.0	
A	S						
## 159	34	321	CAM	A	34-36	26.7	
A	CC						
## 160	34	322	CAM	A	36-38	2.2	
A	CC						

## 161	34	323	CAM	A	40-42	2.1	
A	CC						
## 162	34	324	CAM	A	40-42	3.3	
A	CC						
## 163	34	325	CAM	A	40-42	4.8	
A	CC						
## 164	34	326	CAM	A	40-42	4.7	A/
L	CC						
## 165	34	327	CAM	A	42-44	4.3	A/
L	CC						
## 166	34	328	CAM	A	42-44	1.3	A/
L	CC						
## 167	34	329	CAM	A	42-44	1.5	
A	F						
## 168	34	330	CAM	A	42-44	4.4	
A	CC						
## 169	34	331	CAM	A	44-46	6.1	
A	S						
## 170	34	332	CAM	A	46-48	2.4	A/
L	CC						
## 171	34	333	CAM	A	48-50	58.4	
A	F						
## 172	34	334	CAM	A	48-50	0.8	A/
L	CC						
## 173	34	335	CAM	B	2-4	11.1	
A	F						
## 174	34	336	CAM	B	10-12	2.8	
A	F						
## 175	34	337	CAM	B	12-14	30.5	A/
L	CV						
## 176	34	338	CAM	B	14-16	1.6	
A	CC						
## 177	34	339	CAM	B	20-22	3.7	
A	CC						
## 178	34	340	CAM	B	38-40	1.5	A/
L	CC						
## 179	34	341	CAM	B	40-42	3.4	
A	S						
## 180	35	342	CAM	A	14-16	31.2	
A	CC						
## 181	35	343	CAM	B	2-4	16.4	
A	CC						

## 182	35	344	CAM	B	4-6	4.6	
A	F						
## 183	35	345	CAM	B	4-6	24.8	A/
B	CV						
## 184	35	347	CAM	B	14-16	10.4	A/
B	CC						
## 185	35	348	CAM	B	20-22	9.7	
A	F						
## 186	36	350	CAM	A	6-8	28.7	
A	S						
## 187	36	351	CAM	A	8-10	9.9	
A	F						
## 188	36	352	CAM	A	8-10	18.8	
A	CC						
## 189	36	353	CAM	A	24-26	18.0	
A	CC						
## 190	36	354	CAM	A	30-32	4.9	
A	F						
## 191	36	356	CAM	A	34-36	1.1	
A	F						
## 192	36	377	CAM	B	36-38	30.3	A/
B	F						
## 193	36	380	CAM	B	36-38	20.4	
A	CC						
## 194	36	381	CAM	B	36-38	9.6	
A	F						
## 195	36	384	CAM	B	36-38	13.3	
A	S						
## 196	36	389	CAM	B	40-42	11.5	
A	S						
## 197	36	391	CAM	B	42-44	6.1	A/
B	CC						
## 198	36	395	CAM	B	42-44	10.8	
A	S						
## 199	36	396	CAM	B	42-44	18.2	A/
B	S						
## 200	36	398	CAM	B	42-44	15.1	A/
B	S						
## 201	36	399	CAM	B	42-44	4.4	
A	S						
## 202	36	400	CAM	B	42-44	11.0	
A	CC						

## 203	36	402	CAM	B	48-50	19.8	
A	CC						
## 204	38	405	CAM	A	0-2	18.6	A/
B	CV						
## 205	38	416	CAM	A	10-12	11.7	A/
B	F						
## 206	38	425	CAM	A	12-14	7.5	A/
B	F						
## 207	38	447	CAM	A	22-24	9.4	A/
B	S						
## 208	38	448	CAM	A	22-24	8.3	
A	S						
## 209	38	450	CAM	A	22-24	3.1	
A	CC						
## 210	38	451	CAM	A	22-24	8.1	A/
B	S						
## 211	38	453	CAM	A	22-24	2.0	A/
B	S						
## 212	38	454	CAM	A	22-24	9.6	
A	CC						
## 213	38	455	CAM	A	26-28	1.9	
A	CV						
## 214	38	456	CAM	A	26-28	26.2	
A	S						
## 215	38	490	CAM	B	4-6	10.4	
A	F						
## 216	38	491	CAM	B	4-6	6.7	
A	S						
## 217	38	493	CAM	B	4-6	17.9	
A	CC						
## 218	38	494	CAM	B	6-8	7.1	
A	CC						
## 219	38	505	CAM	B	22-24	9.5	
A	F						
## 220	38	513	CAM	B	28-30	14.6	A/
B	S						
## 221	38	514	CAM	B	30-32	4.4	A/
B	F						
## 222	38	558	CAM	B	50-52	11.8	A/
B	CC						
## 223	38	559	CAM	B	50-52	3.4	
A	CC						

## 224	38	561	CAM	B	50-52	6.5	
A	CC						
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	site.name
## 1	F	1	0	51	0	1	
LAKE							
## 2	F	1	0	51	0	0	
LAKE							
## 3	F	1	0	51	0	0	
LAKE							
## 4	F	1	0	51	0	0	
RAWAH							
## 5	F	0	0	51	0	1	
RAWAH							
## 6	F	0	0	51	0	1	
RAWAH							
## 7	F	0	0	51	0	0	
RAWAH							
## 8	F	0	1	51	0	0	
RAWAH							
## 9	CC	0	0	51	0	0	
RAWAH							
## 10	CC	0	0	51	0	0	
RAWAH							
## 11	CC	0	0	51	0	0	
RAWAH							
## 12	F	1	0	51	0	0	
RAWAH							
## 13	S	1	0	51	0	0	
RAWAH							
## 14	S	1	0	51	0	0	
RAWAH							
## 15	F	1	0	51	0	0	
RAWAH							
## 16	F	1	0	51	0	1	
RAWAH							
## 17	F	1	0	51	0	0	
RAWAH							
## 18	S	1	0	51	0	0	
RAWAH							
## 19	S	1	1	51	0	0	
BLUE							

## 20	CV	1	1	51	0	0
BLUE						
## 21	F	1	0	51	0	0
RAWAH						
## 22	CC	1	0	51	0	0
RAWAH						
## 23	CC	1	1	51	0	0
SNOW						
## 24	CC	1	1	51	0	0
SNOW						
## 25	CC	1	1	51	0	0
SNOW						
## 26	CC	1	1	51	0	1
SNOW						
## 27	CC	1	1	51	0	1
SNOW						
## 28	CC	1	1	51	0	1
SNOW						
## 29	CC	1	1	51	0	1
SNOW						
## 30	CC	1	0	51	0	1
SNOW						
## 31	CC	1	0	51	0	0
SNOW						
## 32	CC	1	0	51	0	1
SNOW						
## 33	CC	0	0	51	0	1
SNOW						
## 34	CC	0	0	51	0	1
SNOW						
## 35	CC	0	0	51	0	1
SNOW						
## 36	CC	0	0	51	0	0
SNOW						
## 37	CC	0	0	51	0	1
SNOW						
## 38	CC	0	0	51	0	0
SNOW						
## 39	CC	0	0	51	0	1
SNOW						
## 40	CC	0	0	51	0	1
SNOW						



## 41	CC	0	0	51	0	0
SNOW						
## 42	CC	1	1	51	0	0
SNOW						
## 43	CC	1	1	51	0	0
SNOW						
## 44	S	1	1	51	0	0
SNOW						
## 45	CC	1	0	51	0	0
SNOW						
## 46	CC	1	0	51	0	0
SNOW						
## 47	S	1	0	51	0	0
SNOW						
## 48	S	1	0	51	0	0
SNOW						
## 49	S	1	0	51	0	0
SNOW						
## 50	S	0	0	51	0	1
SNOW						
## 51	S	0	0	51	0	1
SNOW						
## 52	S	0	0	51	0	1
SNOW						
## 53	S	0	0	51	0	0
SNOW						
## 54	S	0	0	51	0	0
SNOW						
## 55	S	0	0	51	0	0
SNOW						
## 56	S	0	0	51	0	1
SNOW						
## 57	S	0	0	51	0	1
SNOW						
## 58	S	0	0	51	0	1
SNOW						
## 59	S	0	0	51	0	1
SNOW						
## 60	S	0	0	51	0	1
SNOW						
## 61	CC	0	0	51	0	1
SNOW						

## 62	F	1	1	51	0	1
SNOW						
## 63	S	1	0	51	0	1
SNOW						
## 64	S	0	0	51	0	1
SNOW						
## 65	S	1	0	51	0	1
SNOW						
## 66	S	0	0	51	0	1
SNOW						
## 67	S	1	0	51	0	1
SNOW						
## 68	S	1	0	51	0	1
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LONG						
## 71	CC	0	1	51	0	1
LONG						
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LONG						
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LONG						
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LONG						
## 75	F	1	0	51	0	0
LONG						
## 76	CC	1	1	40	0	0
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## 77	S	1	0	51	0	0
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## 78	CV	0	0	51	0	0
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## 79	CC	0	1	51	0	0
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## 89	CC	0	0	51	0	0
MONTY						
## 90	CC	0	0	51	0	0
MONTY						
## 91	CC	0	0	51	0	0
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## 104	S	1	0	51	0	0
MONTY						
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## 107	CC	1	1	51	0	1
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LONG						
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## 113	CC	1	0	51	0	0
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LONG						
## 115	F	1	0	51	0	1
LONG						
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LONG						

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## 140	CC	1	1	51	0	0
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LONG						
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## 148	S	1	0	51	0	0
LONG						
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FISH						
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FISH						
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CAM						
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## 156	S	0	0	51	0	0
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CAM						
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## 160	CC	1	0	51	0	0
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CAM						
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## 165	CC	1	0	51	0	0
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
## 180	CC	0	0	51	0	0
CAM						
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CAM						
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CAM						
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CAM						
## 185	CC	1	0	51	0	0
CAM						
## 186	S	1	0	51	0	0
CAM						
## 187	S	1	0	51	0	0
CAM						

## 188	S	1	0	51	0	0
CAM						
## 189	CV	1	0	51	0	0
CAM						
## 190	CV	1	1	51	0	0
CAM						
## 191	CC	0	0	51	0	0
CAM						
## 192	F	1	0	51	0	0
CAM						
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CAM						
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CAM						
## 195	CC	1	0	51	0	0
CAM						
## 196	S	1	0	51	0	0
CAM						
## 197	S	0	1	51	0	0
CAM						
## 198	CV	1	0	51	0	0
CAM						
## 199	CC	1	0	51	0	0
CAM						
## 200	S	1	0	51	0	1
CAM						
## 201	S	1	0	51	0	1
CAM						
## 202	CC	1	0	51	0	0
CAM						
## 203	CC	1	0	51	0	0
CAM						
## 204	F	1	0	51	0	0
CAM						
## 205	CV	0	0	51	0	0
CAM						
## 206	CC	0	0	51	0	0
CAM						
## 207	S	1	0	51	0	0
CAM						
## 208	S	10	0	51	0	0
CAM						



## 209	S	0	0	51	0	0
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
	Elevation	Slope				
## 1	6	15.0	LAKE	427647.0	4493988	
2835	-6					
## 2	6	6.0	LAKE	427647.0	4493988	
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## 3	6	3.5	LAKE	427647.0	4493988	
2835	-6					
## 4	7	21.0	RAWAH	427082.0	4499706	
2710	-7					

## 5		7	22.0	RAWAH	427082.0	4499706
2710	-7					
## 6		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 7		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 8		7	24.0	RAWAH	427082.0	4499706
2710	-7					
## 9		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 10		7	18.0	RAWAH	427082.0	4499706
2710	-7					
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2710	-7					
## 12		7	23.0	RAWAH	427082.0	4499706
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## 13		7	13.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	14.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 18		8	9.0	RAWAH	426956.0	4499540
2724	-9					
## 19		11	29.0	BLUE	427118.0	4493949
2901	-10					
## 20		11	25.0	BLUE	427118.0	4493949
2901	-10					
## 21		19	14.0	RAWAH	427155.5	4498773
2751	-10					
## 22		19	1.5	RAWAH	427155.5	4498773
2751	-10					
## 23		20	39.0	SNOW	426996.6	4492304
2959	-10					
## 24		20	19.0	SNOW	426996.6	4492304
2959	-10					
## 25		20	3.0	SNOW	426996.6	4492304
2959	-10					

## 26		20	10.0	SNOW	426996.6	4492304
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## 27		20	7.0	SNOW	426996.6	4492304
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2959	-10					
## 29		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 30		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 31		20	20.0	SNOW	426996.6	4492304
2959	-10					
## 32		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 33		20	12.0	SNOW	426996.6	4492304
2959	-10					
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2959	-10					
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2959	-10					
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2959	-10					

## 47	20	20.5	SNOW	426996.6	4492304
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## 48	20	18.5	SNOW	426996.6	4492304
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## 49	20	5.5	SNOW	426996.6	4492304
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## 65	20	31.5	SNOW	426996.6	4492304
2959 -10					
## 66	20	22.0	SNOW	426996.6	4492304
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## 67	20	18.5	SNOW	426996.6	4492304
2959 -10					

## 68		20	29.5	SNOW	426996.6	4492304
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2959	-10					
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3029	-1					
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3029	-1					
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3029	-1					
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3029	-1					
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3029	-1					
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3029	-1					
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3029	-1					
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3206	-8					
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3259	-13					
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3259	-13					
## 80		23	7.9	MONTY	424655.0	4489019
3259	-13					
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3259	-13					
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3259	-13					
## 83		23	15.5	MONTY	424655.0	4489019
3259	-13					
## 84		23	6.0	MONTY	424655.0	4489019
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## 85		23	14.0	MONTY	424655.0	4489019
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## 86		23	8.0	MONTY	424655.0	4489019
3259	-13					
## 87		23	1.0	MONTY	424655.0	4489019
3259	-13					
## 88		23	5.5	MONTY	424655.0	4489019
3259	-13					

## 89	23	6.9	MONTY	424655.0	4489019
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## 90	23	1.1	MONTY	424655.0	4489019
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## 92	23	1.6	MONTY	424655.0	4489019
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## 94	23	4.6	MONTY	424655.0	4489019
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## 95	23	5.0	MONTY	424655.0	4489019
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## 96	23	4.0	MONTY	424655.0	4489019
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## 97	23	4.0	MONTY	424655.0	4489019
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## 99	23	7.2	MONTY	424655.0	4489019
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## 100	23	5.7	MONTY	424655.0	4489019
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## 101	23	7.4	MONTY	424655.0	4489019
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## 103	23	3.3	MONTY	424655.0	4489019
3259 -13					
## 104	23	4.8	MONTY	424655.0	4489019
3259 -13					
## 105	23	5.0	MONTY	424655.0	4489019
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## 106	23	7.4	MONTY	424655.0	4489019
3259 -13					
## 107	24	4.8	MONTY	424640.0	4488778
3199 -12					
## 108	24	6.1	MONTY	424640.0	4488778
3199 -12					
## 109	25	4.2	LONG	431465.0	4490417
3068 -7					

## 110	25	8.1	LONG	431465.0	4490417
3068 -7					
## 111	25	7.9	LONG	431465.0	4490417
3068 -7					
## 112	25	11.9	LONG	431465.0	4490417
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## 113	25	6.8	LONG	431465.0	4490417
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## 121	25	6.5	LONG	431465.0	4490417
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## 122	25	4.0	LONG	431465.0	4490417
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## 144	27	4.6	LONG	430929.0	4490476
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## 145	27	15.5	LONG	430929.0	4490476
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3090 -11					
## 147	27	1.0	LONG	430929.0	4490476
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## 148	27	0.5	LONG	430929.0	4490476
3090 -11					
## 149	28	20.0	FISH	454709.0	4496418
2571 -5					
## 150	28	17.0	FISH	454709.0	4496418
2571 -5					
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3106 -9					



## 152		34	0.9	CAM	434425.0	4485996
3106	-9					
## 153		34	0.5	CAM	434425.0	4485996
3106	-9					
## 154		34	13.1	CAM	434425.0	4485996
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## 155		34	16.3	CAM	434425.0	4485996
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## 156		34	34.9	CAM	434425.0	4485996
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## 157		34	1.2	CAM	434425.0	4485996
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3106	-9					
## 159		34	26.7	CAM	434425.0	4485996
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3106	-9					
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3106	-9					
## 162		34	3.3	CAM	434425.0	4485996
3106	-9					
## 163		34	4.8	CAM	434425.0	4485996
3106	-9					
## 164		34	4.7	CAM	434425.0	4485996
3106	-9					
## 165		34	4.3	CAM	434425.0	4485996
3106	-9					
## 166		34	1.3	CAM	434425.0	4485996
3106	-9					
## 167		34	1.5	CAM	434425.0	4485996
3106	-9					
## 168		34	4.4	CAM	434425.0	4485996
3106	-9					
## 169		34	6.1	CAM	434425.0	4485996
3106	-9					
## 170		34	2.4	CAM	434425.0	4485996
3106	-9					
## 171		34	58.4	CAM	434425.0	4485996
3106	-9					
## 172		34	0.8	CAM	434425.0	4485996
3106	-9					

## 173		34	11.1	CAM	434425.0	4485996
3106	-9					
## 174		34	2.8	CAM	434425.0	4485996
3106	-9					
## 175		34	30.5	CAM	434425.0	4485996
3106	-9					
## 176		34	1.6	CAM	434425.0	4485996
3106	-9					
## 177		34	3.7	CAM	434425.0	4485996
3106	-9					
## 178		34	1.5	CAM	434425.0	4485996
3106	-9					
## 179		34	3.4	CAM	434425.0	4485996
3106	-9					
## 180		35	31.2	CAM	434642.0	4485999
3093	-5					
## 181		35	16.4	CAM	434642.0	4485999
3093	-5					
## 182		35	4.6	CAM	434642.0	4485999
3093	-5					
## 183		35	24.8	CAM	434642.0	4485999
3093	-5					
## 184		35	10.4	CAM	434642.0	4485999
3093	-5					
## 185		35	9.7	CAM	434642.0	4485999
3093	-5					
## 186		36	28.7	CAM	434021.0	4485004
3020	-10					
## 187		36	9.9	CAM	434021.0	4485004
3020	-10					
## 188		36	18.8	CAM	434021.0	4485004
3020	-10					
## 189		36	18.0	CAM	434021.0	4485004
3020	-10					
## 190		36	4.9	CAM	434021.0	4485004
3020	-10					
## 191		36	1.1	CAM	434021.0	4485004
3020	-10					
## 192		36	30.3	CAM	434021.0	4485004
3020	-10					
## 193		36	20.4	CAM	434021.0	4485004
3020	-10					

## 194	36	9.6	CAM	434021.0	4485004
3020 -10					
## 195	36	13.3	CAM	434021.0	4485004
3020 -10					
## 196	36	11.5	CAM	434021.0	4485004
3020 -10					
## 197	36	6.1	CAM	434021.0	4485004
3020 -10					
## 198	36	10.8	CAM	434021.0	4485004
3020 -10					
## 199	36	18.2	CAM	434021.0	4485004
3020 -10					
## 200	36	15.1	CAM	434021.0	4485004
3020 -10					
## 201	36	4.4	CAM	434021.0	4485004
3020 -10					
## 202	36	11.0	CAM	434021.0	4485004
3020 -10					
## 203	36	19.8	CAM	434021.0	4485004
3020 -10					
## 204	38	18.6	CAM	434173.0	4486246
3154 -4					
## 205	38	11.7	CAM	434173.0	4486246
3154 -4					
## 206	38	7.5	CAM	434173.0	4486246
3154 -4					
## 207	38	9.4	CAM	434173.0	4486246
3154 -4					
## 208	38	8.3	CAM	434173.0	4486246
3154 -4					
## 209	38	3.1	CAM	434173.0	4486246
3154 -4					
## 210	38	8.1	CAM	434173.0	4486246
3154 -4					
## 211	38	2.0	CAM	434173.0	4486246
3154 -4					
## 212	38	9.6	CAM	434173.0	4486246
3154 -4					
## 213	38	1.9	CAM	434173.0	4486246
3154 -4					
## 214	38	26.2	CAM	434173.0	4486246
3154 -4					

## 215		38	10.4	CAM	434173.0	4486246
3154	-4					
## 216		38	6.7	CAM	434173.0	4486246
3154	-4					
## 217		38	17.9	CAM	434173.0	4486246
3154	-4					
## 218		38	7.1	CAM	434173.0	4486246
3154	-4					
## 219		38	9.5	CAM	434173.0	4486246
3154	-4					
## 220		38	14.6	CAM	434173.0	4486246
3154	-4					
## 221		38	4.4	CAM	434173.0	4486246
3154	-4					
## 222		38	11.8	CAM	434173.0	4486246
3154	-4					
## 223		38	3.4	CAM	434173.0	4486246
3154	-4					
## 224		38	6.5	CAM	434173.0	4486246
3154	-4					
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
Transect.B						
## 1	173		CC			18
108						
## 2	173		CC			18
108						
## 3	173		CC			18
108						
## 4	30		F			252
162						
## 5	30		F			252
162						
## 6	30		F			252
162						
## 7	30		F			252
162						
## 8	30		F			252
162						
## 9	30		F			252
162						
## 10	30		F			252
162						

## 11	30	F	252
162			
## 12	30	F	252
162			
## 13	30	F	252
162			
## 14	30	F	252
162			
## 15	30	F	252
162			
## 16	30	F	252
162			
## 17	30	F	252
162			
## 18	340	F	60
330			
## 19	92	F	290
20			
## 20	92	F	290
20			
## 21	84	F/S	356
264			
## 22	84	F/S	356
264			
## 23	12	CV	228
312			
## 24	12	CV	228
312			
## 25	12	CV	228
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## 26	12	CV	228
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## 27	12	CV	228
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## 28	12	CV	228
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## 29	12	CV	228
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## 30	12	CV	228
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## 31	12	CV	228
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## 32	12	CV	228
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## 33	12	CV	228
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## 34	12	CV	228
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## 35	12	CV	228
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## 36	12	CV	228
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## 38	12	CV	228
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## 42	12	CV	228
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## 43	12	CV	228
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## 44	12	CV	228
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## 70	298	CC	288
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## 71	298	CC	288
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## 72	298	CC	288
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## 73	298	CC	288
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## 74	298	CC	288
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## 75	298	CC	288
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## 76	298	CC	288
210			
## 77	60	CC	60
33			
## 78	194	F/S	46
316			
## 79	194	F/S	46
316			
## 80	194	F/S	46
316			
## 81	194	F/S	46
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## 82	194	F/S	46
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## 83	194	F/S	46
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## 84	194	F/S	46
316			
## 85	194	F/S	46
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## 86	194	F/S	46
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## 87	194	F/S	46
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## 88	194	F/S	46
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## 89	194	F/S	46
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## 90	194	F/S	46
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## 91	194	F/S	46
316			
## 92	194	F/S	46
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## 93	194	F/S	46
316			
## 94	194	F/S	46
316			



## 95	194	F/S	46
316			
## 96	194	F/S	46
316			
## 97	194	F/S	46
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## 98	194	F/S	46
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## 99	194	F/S	46
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## 100	194	F/S	46
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## 101	194	F/S	46
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## 102	194	F/S	46
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## 103	194	F/S	46
316			
## 104	194	F/S	46
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## 105	194	F/S	46
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## 106	194	F/S	46
316			
## 107	160	F/S	184
90			
## 108	160	F/S	184
90			
## 109	130	F	222
310			
## 110	130	F	222
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## 111	130	F	222
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## 112	130	F	222
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## 113	130	F	222
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## 114	130	F	222
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## 115	130	F	222
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## 116	130	F	222
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## 117	130	F	222
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## 118	130	F	222
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## 119	130	F	222
310			
## 120	130	F	222
310			
## 121	130	F	222
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## 122	130	F	222
310			
## 123	240	CC	210
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## 124	240	CC	210
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## 133	240	CC	210
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## 134	240	CC	210
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## 135	240	CC	210
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## 136	240	CC	210
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## 137	120	S	280
110			
## 138	120	S	280
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## 139	120	S	280
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## 142	120	S	280
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## 143	120	S	280
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## 144	120	S	280
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## 145	120	S	280
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## 146	120	S	280
110			
## 147	120	S	280
110			
## 148	120	S	280
110			
## 149	286	CC	106
190			
## 150	286	CC	106
190			
## 151	194	F/S	274
180			
## 152	194	F/S	274
180			
## 153	194	F/S	274
180			
## 154	194	F/S	274
180			
## 155	194	F/S	274
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## 156	194	F/S	274
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## 157	194	F/S	274
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## 158	194	F/S	274
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## 159	194	F/S	274
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## 160	194	F/S	274
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## 161	194	F/S	274
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## 162	194	F/S	274
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## 163	194	F/S	274
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## 164	194	F/S	274
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## 166	194	F/S	274
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## 167	194	F/S	274
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## 168	194	F/S	274
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## 169	194	F/S	274
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## 170	194	F/S	274
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## 171	194	F/S	274
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## 172	194	F/S	274
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## 173	194	F/S	274
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## 174	194	F/S	274
180			
## 175	194	F/S	274
180			
## 176	194	F/S	274
180			
## 177	194	F/S	274
180			
## 178	194	F/S	274
180			

## 179	194	F/S	274
180			
## 180	90	CC	72
164			
## 181	90	CC	72
164			
## 182	90	CC	72
164			
## 183	90	CC	72
164			
## 184	90	CC	72
164			
## 185	90	CC	72
164			
## 186	216	F/S	166
74			
## 187	216	F/S	166
74			
## 188	216	F/S	166
74			
## 189	216	F/S	166
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## 190	216	F/S	166
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## 191	216	F/S	166
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## 192	216	F/S	166
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## 193	216	F/S	166
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## 194	216	F/S	166
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## 195	216	F/S	166
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## 196	216	F/S	166
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## 197	216	F/S	166
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## 198	216	F/S	166
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## 199	216	F/S	166
74			

## 200	216	F/S	166
74			
## 201	216	F/S	166
74			
## 202	216	F/S	166
74			
## 203	216	F/S	166
74			
## 204	190	F/S	56
142			
## 205	190	F/S	56
142			
## 206	190	F/S	56
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## 207	190	F/S	56
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## 208	190	F/S	56
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## 216	190	F/S	56
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## 217	190	F/S	56
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## 218	190	F/S	56
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## 219	190	F/S	56
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## 220	190	F/S	56
142			

## 221	190	F/S	56
142			
## 222	190	F/S	56
142			
## 223	190	F/S	56
142			
## 224	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	51.0	
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## 3	51	51.0	
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## 21	51	35.0	
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## 148	51	51.0
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## 150	51	5.4
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## 172	51	51.0
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## 178	51	51.0
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## 190	51	51.0
## 191	51	51.0

##	192		51		51.0
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##	194		51		51.0
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##	197		51		51.0
##	198		51		51.0
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##	200		51		51.0
##	201		51		51.0
##	202		51		51.0
##	203		51		51.0
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##	207		51		51.0
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##	210		51		51.0
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##	214		51		51.0
##	215		51		51.0
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##	220		51		51.0
##	221		51		51.0
##	222		51		51.0
##	223		51		51.0
##	224		51		51.0

bryophyte

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.	
	Substrate	Small.Topo				
## 1	7	14	RAWAH	A	0-2	27.0 B/
M	CC					
## 2	7	15	RAWAH	A	0-2	26.0 B/

M	F						
## 3	7	16	RAWAH	A	0-2	30.0	B/
M	F						
## 4	7	17	RAWAH	A	0-2	21.0	B/
M	F						
## 5	7	18	RAWAH	A	0-2	17.0	B/
M	S						
## 6	7	19	RAWAH	A	0-2	31.0	B/
M	S						
## 7	7	20	RAWAH	A	0-2	26.0	B/
M	CC						
## 8	7	21	RAWAH	A	0-2	16.0	B/
M	S						
## 9	7	22	RAWAH	A	0-2	17.0	B/
M	CC						
## 10	7	23	RAWAH	A	0-2	28.0	B/
M	CC						
## 11	7	24	RAWAH	A	0-2	28.0	B/
M	CC						
## 12	7	25	RAWAH	A	0-2	44.0	B/
M	CC						
## 13	7	36	RAWAH	B	30-32	21.0	B/
M	F						
## 14	7	37	RAWAH	B	30-32	31.0	B/
M	F						
## 15	7	38	RAWAH	B	30-32	35.0	B/
M	F						
## 16	7	39	RAWAH	B	30-32	31.0	B/
M	F						
## 17	7	50	RAWAH	B	42-44	37.0	B/
M	F						
## 18	7	52	RAWAH	B	42-44	18.0	B/
M	CC						
## 19	7	53	RAWAH	B	42-44	17.0	B/
M	CC						
## 20	7	54	RAWAH	B	42-44	18.0	B/
M	CC						
## 21	7	55	RAWAH	B	42-44	15.0	B/
M	CC						
## 22	7	56	RAWAH	B	42-44	25.0	B/
M	CC						
## 23	7	57	RAWAH	B	42-44	39.0	B/

M	CC						
## 24	7	58	RAWAH	B	42-44	28.0	B/
M	CC						
## 25	7	60	RAWAH	B	42-44	11.0	
B	CV						
## 26	7	61	RAWAH	B	42-44	15.0	
B	CV						
## 27	7	62	RAWAH	B	42-44	8.0	
B	CV						
## 28	7	66	RAWAH	B	42-44	25.0	B/
M	CC						
## 29	7	72	RAWAH	B	42-44	26.0	
B	CC						
## 30	7	73	RAWAH	B	42-44	16.0	B/
M	S						
## 31	7	76	RAWAH	B	44-46	34.0	B/
M	S						
## 32	7	77	RAWAH	B	44-46	60.0	B/
M	S						
## 33	7	78	RAWAH	B	44-46	45.0	B/
M	CC						
## 34	7	87	RAWAH	B	46-48	34.0	
B	F						
## 35	20	126	SNOW	A	4-6	11.0	
B	S						
## 36	20	127	SNOW	A	4-6	18.0	
B	CC						
## 37	20	129	SNOW	A	4-6	9.0	
B	S						
## 38	20	132	SNOW	B	10-12	4.5	
B	CV						
## 39	20	134	SNOW	B	10-12	15.0	B/
M	CV						
## 40	20	135	SNOW	B	12-14	27.5	
B	F						
## 41	20	136	SNOW	B	12-14	12.0	B/
M	F						
## 42	20	156	SNOW	B	18-20	7.5	
B	CV						
## 43	20	157	SNOW	B	18-20	12.0	
B	CV						
## 44	20	158	SNOW	B	18-20	23.5	

B	CC					
## 45	21	174	LONG	A	48-50	5.0
B	CC					
## 46	25	213	LONG	A	6-8	6.1
B	CV					
## 47	25	214	LONG	A	6-8	6.0
B	CC					
## 48	25	215	LONG	A	6-8	2.6
B	CC					
## 49	25	216	LONG	A	6-8	3.0
B	CC					
## 50	25	217	LONG	A	6-8	5.0
B	CC					
## 51	25	218	LONG	A	6-8	1.5
B	F					
## 52	25	219	LONG	A	6-8	3.9
B	F					
## 53	25	220	LONG	A	6-8	5.5
B	F					
## 54	25	221	LONG	A	6-8	2.6
B	F					
## 55	25	222	LONG	A	6-8	9.6
B	CC					
## 56	25	223	LONG	A	6-8	7.9
B	CC					
## 57	25	224	LONG	A	6-8	3.0
B	CV					
## 58	25	225	LONG	A	6-8	8.6
B	CC					
## 59	25	226	LONG	A	6-8	5.3
B	CV					
## 60	25	227	LONG	A	6-8	5.0
B	CC					
## 61	25	228	LONG	A	6-8	10.2
B	CV					
## 62	25	229	LONG	A	6-8	3.1
B	CC					
## 63	25	230	LONG	A	6-8	5.1
B	S					
## 64	25	231	LONG	A	6-8	4.1
B	S					
## 65	25	235	LONG	A	8-10	4.6

B	CV						
## 66	25	236	LONG	A	8-10	5.8	
B	CC						
## 67	25	239	LONG	A	10-12	7.0	B/
M	F						
## 68	25	240	LONG	A	12-14	11.0	B/
M	F						
## 69	25	244	LONG	A	12-14	5.0	
B	S						
## 70	25	245	LONG	A	12-14	15.6	
B	F						
## 71	25	246	LONG	A	12-14	24.9	
B	S						
## 72	25	247	LONG	A	12-14	3.9	
B	S						
## 73	25	248	LONG	A	12-14	4.0	
B	CC						
## 74	25	249	LONG	A	12-14	8.4	
B	CC						
## 75	25	250	LONG	A	12-14	3.9	
B	CC						
## 76	25	255	LONG	A	14-16	7.5	
B	S						
## 77	25	257	LONG	A	16-18	9.0	
B	S						
## 78	25	258	LONG	A	16-18	6.5	
B	F						
## 79	25	259	LONG	A	16-18	12.0	
B	S						
## 80	25	260	LONG	A	16-18	10.0	B/
M	S						
## 81	26	270	LONG	A	16-18	18.1	B/
M	S						
## 82	26	274	LONG	A	26-28	5.7	
B	CV						
## 83	27	287	LONG	A	0-2	20.1	
B	S						
## 84	27	294	LONG	B	0-2	4.4	
B	S						
## 85	27	295	LONG	B	0-2	14.9	
B	CV						
## 86	27	296	LONG	B	0-2	5.1	



B	S							
## 87	35	346	CAM	B	14-16	4.4	B/	
M	CC							
## 88	35	349	CAM	B	48-50	3.5	B/	
M	F							
## 89	36	358	CAM	A	42-44	5.1		
B	CC							
## 90	36	359	CAM	A	42-44	2.9		
B	CV							
## 91	36	360	CAM	A	42-44	9.9		
B	S							
## 92	36	361	CAM	A	42-44	13.2		
B	CC							
## 93	36	362	CAM	A	44-46	6.4	B/	
M	CC							
## 94	36	364	CAM	A	48-50	18.1	B/	
M	CC							
## 95	36	365	CAM	A	48-50	13.1	B/	
M	CC							
## 96	36	366	CAM	A	48-50	1.4	B/	
M	CC							
## 97	36	367	CAM	A	48-50	8.7	B/	
M	CC							
## 98	36	368	CAM	A	48-50	8.5	B/	
M	CV							
## 99	36	369	CAM	B	34-36	6.0		
B	S							
## 100	36	370	CAM	B	34-36	6.6		
B	S							
## 101	36	371	CAM	B	34-36	4.8		
B	CC							
## 102	36	372	CAM	B	34-36	2.9		
B	CC							
## 103	36	373	CAM	B	34-36	13.8		
B	CV							
## 104	36	374	CAM	B	36-38	16.9		
B	CC							
## 105	36	375	CAM	B	36-38	13.0	B/	
L	CC							
## 106	36	376	CAM	B	36-38	10.5		
B	CC							
## 107	36	378	CAM	B	36-38	29.6		

B	CV					
## 108	36	379	CAM	B	36-38	21.7
B	F					
## 109	36	382	CAM	B	36-38	7.9
B	F					
## 110	36	383	CAM	B	36-38	5.5
B	F					
## 111	36	385	CAM	B	36-38	3.4
B	S					
## 112	36	386	CAM	B	36-38	3.6
B	S					
## 113	36	387	CAM	B	40-42	18.6
B	CC					
## 114	36	388	CAM	B	40-42	15.9
B	CC					
## 115	36	390	CAM	B	38-40	3.7
B	CC					
## 116	36	392	CAM	B	42-44	12.4
B	S					
## 117	36	393	CAM	B	42-44	11.0
B	CC					
## 118	36	394	CAM	B	42-44	13.4
B	CC					
## 119	36	397	CAM	B	42-44	14.6
B	S					
## 120	36	401	CAM	B	42-44	3.1
B	S					
## 121	38	404	CAM	A	0-2	3.2
B	F					
## 122	38	406	CAM	A	4-6	4.1
B	CC					
## 123	38	407	CAM	A	4-6	4.9
B	CC					
## 124	38	408	CAM	A	4-6	7.9
B	S					
## 125	38	409	CAM	A	4-6	4.5
B	F					
## 126	38	410	CAM	A	4-6	4.7
B	S					
## 127	38	411	CAM	A	4-6	17.1
B	S					
## 128	38	412	CAM	A	4-6	9.1

B	CC					
## 129	38	413	CAM	A	4-6	3.5
B	CC					
## 130	38	414	CAM	A	10-12	10.4
B	CC					
## 131	38	415	CAM	A	10-12	6.3
B	S					
## 132	38	417	CAM	A	10-12	10.3
B	S					
## 133	38	418	CAM	A	10-12	5.2
B	S					
## 134	38	419	CAM	A	12-14	3.8
B	CC					
## 135	38	420	CAM	A	12-14	4.6
B	S					
## 136	38	421	CAM	A	12-14	5.5
B	CV					
## 137	38	422	CAM	A	12-14	6.2
B	S					
## 138	38	423	CAM	A	12-14	7.6
B	CC					
## 139	38	424	CAM	A	12-14	5.2
B	CC					
## 140	38	426	CAM	A	12-14	4.4
B	F					
## 141	38	427	CAM	A	14-16	22.6
B	C					
## 142	38	428	CAM	A	14-16	4.7
B	CV					
## 143	38	429	CAM	A	16-18	8.4
B	CC					
## 144	38	430	CAM	A	16-18	18.3
B	CC					
## 145	38	431	CAM	A	16-18	6.1
B	CC					
## 146	38	432	CAM	A	16-18	4.2
B	CC					
## 147	38	433	CAM	A	16-18	10.5
B	S					
## 148	38	434	CAM	A	16-18	8.2
B	CC					
## 149	38	435	CAM	A	16-18	8.1

B	F					
## 150	38	436	CAM	A	16-18	5.3
B	S					
## 151	38	437	CAM	A	16-18	5.1
B	F					
## 152	38	438	CAM	A	16-18	5.2
B	S					
## 153	38	439	CAM	A	20-22	45.7
B	S					
## 154	38	440	CAM	A	20-22	14.6
B	F					
## 155	38	441	CAM	A	20-22	3.6
B	CC					
## 156	38	442	CAM	A	20-22	7.2
B	CC					
## 157	38	443	CAM	A	20-22	5.2
B	S					
## 158	38	444	CAM	A	22-24	15.0
B	CC					
## 159	38	445	CAM	A	22-24	12.0
B	S					
## 160	38	446	CAM	A	22-24	9.6
B	S					
## 161	38	449	CAM	A	22-24	4.2
B	CC					
## 162	38	452	CAM	A	22-24	7.5
B	CC					
## 163	38	457	CAM	A	32-34	9.6
B	CV					
## 164	38	458	CAM	A	32-34	10.4
B	F					
## 165	38	459	CAM	A	32-34	19.1
B	CV					
## 166	38	460	CAM	A	32-34	8.2
B	S					
## 167	38	461	CAM	A	32-34	10.6
B	S					
## 168	38	462	CAM	A	32-34	9.9
B	S					
## 169	38	463	CAM	A	32-34	2.2
B	F					
## 170	38	464	CAM	A	32-34	3.0

B	S					
## 171	38	465	CAM	A	32-34	6.5
B	CC					
## 172	38	466	CAM	A	32-34	11.4
B	S					
## 173	38	467	CAM	A	32-34	6.3
B	CV					
## 174	38	468	CAM	A	34-36	9.8
B	CC					
## 175	38	469	CAM	A	34-36	15.0
B	F					
## 176	38	470	CAM	A	34-36	7.5
B	CC					
## 177	38	471	CAM	A	34-36	2.9
B	F					
## 178	38	472	CAM	A	34-36	16.9
B	CC					
## 179	38	473	CAM	A	34-36	13.0
B	S					
## 180	38	474	CAM	A	34-36	15.0
B	CC					
## 181	38	475	CAM	A	34-36	12.2
B	S					
## 182	38	476	CAM	A	34-36	11.5
B	F					
## 183	38	477	CAM	A	34-36	12.8
B	F					
## 184	38	478	CAM	A	34-36	17.6
B	F					
## 185	38	479	CAM	A	34-36	8.3
B	F					
## 186	38	480	CAM	A	34-36	3.8
B	F					
## 187	38	481	CAM	A	34-36	16.0
B	CC					
## 188	38	482	CAM	A	36-38	18.4
B	S					
## 189	38	483	CAM	A	42-44	4.6
B	CC					
## 190	38	484	CAM	A	48-50	6.2
B	F					
## 191	38	485	CAM	A	48-50	9.5

B	F					
## 192	38	486	CAM	A	48-50	3.2
B	F					
## 193	38	487	CAM	A	48-50	5.1
B	CC					
## 194	38	488	CAM	A	48-50	4.0
B	CC					
## 195	38	489	CAM	A	48-50	6.9
B	S					
## 196	38	492	CAM	B	4-6	14.7
B	S					
## 197	38	496	CAM	B	20-22	8.5
B	S					
## 198	38	497	CAM	B	20-22	11.5
B	S					
## 199	38	498	CAM	B	20-22	7.9
B	F					
## 200	38	499	CAM	B	20-22	10.3
B	S					
## 201	38	500	CAM	B	20-22	10.5
B	F					
## 202	38	501	CAM	B	20-22	7.3
B	CC					
## 203	38	502	CAM	B	20-22	10.8
B	S					
## 204	38	503	CAM	B	20-22	11.7
B	S					
## 205	38	504	CAM	B	20-22	10.0
B	S					
## 206	38	506	CAM	B	22-24	2.9
B	F					
## 207	38	507	CAM	B	28-30	8.7
B	S					
## 208	38	508	CAM	B	28-30	19.7
B	F					
## 209	38	509	CAM	B	28-30	6.9
B	S					
## 210	38	510	CAM	B	28-30	1.2
B	F					
## 211	38	511	CAM	B	30-32	1.0
B	F					
## 212	38	512	CAM	B	30-32	0.5

B	F					
## 213	38	515	CAM	B	30-32	1.5
B	F					
## 214	38	516	CAM	B	32-34	46.6
B	CC					
## 215	38	517	CAM	B	34-36	14.3
B	CC					
## 216	38	518	CAM	B	34-36	12.1
B	S					
## 217	38	519	CAM	B	34-36	25.9
B	CV					
## 218	38	520	CAM	B	34-36	6.8
B	F					
## 219	38	521	CAM	B	34-36	23.3
B	S					
## 220	38	522	CAM	B	34-36	22.8
B	S					
## 221	38	523	CAM	B	34-36	15.0
B	S					
## 222	38	524	CAM	B	34-36	13.9
B	F					
## 223	38	525	CAM	B	36-38	7.1
B	F					
## 224	38	526	CAM	B	36-38	6.9
B	F					
## 225	38	527	CAM	B	36-38	6.5
B	S					
## 226	38	528	CAM	B	38-40	10.3
B	S					
## 227	38	529	CAM	B	38-40	11.8
B	S					
## 228	38	530	CAM	B	38-40	3.5
B	S					
## 229	38	531	CAM	B	38-40	5.4
B	S					
## 230	38	532	CAM	B	38-40	6.4
B	CC					
## 231	38	533	CAM	B	38-40	7.0
B	CC					
## 232	38	534	CAM	B	40-42	10.9
B	F					
## 233	38	535	CAM	B	40-42	8.8

B	F					
## 234	38	536	CAM	B	40-42	9.0
B	F					
## 235	38	537	CAM	B	40-42	13.6
B	S					
## 236	38	538	CAM	B	40-42	5.0
B	F					
## 237	38	539	CAM	B	40-42	8.2
B	F					
## 238	38	540	CAM	B	40-42	3.1
B	F					
## 239	38	541	CAM	B	42-44	8.1
B	CV					
## 240	38	542	CAM	B	42-44	2.5
B	F					
## 241	38	543	CAM	B	42-44	6.1
B	CC					
## 242	38	544	CAM	B	42-44	4.9
B	F					
## 243	38	545	CAM	B	42-44	11.5
B	CC					
## 244	38	546	CAM	B	42-44	2.5
B	F					
## 245	38	547	CAM	B	42-44	9.4
B	F					
## 246	38	548	CAM	B	42-44	3.7
B	CC					
## 247	38	549	CAM	B	42-44	8.0
B	S					
## 248	38	550	CAM	B	42-44	7.6
B	S					
## 249	38	551	CAM	B	42-44	23.2
B	S					
## 250	38	552	CAM	B	42-44	22.5
B	S					
## 251	38	553	CAM	B	44-46	3.9
B	CC					
## 252	38	554	CAM	B	44-46	7.0
B	CC					
## 253	38	555	CAM	B	44-46	5.1
B	CC					
## 254	38	556	CAM	B	46-48	3.1



B	CC					
## 255	38	557	CAM	B	50-52	11.6
B	S					
## 256	38	560	CAM	B	50-52	19.0
B	S					
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse
site.name						
## 1	S	0	0	51	0	1
RAWAH						
## 2	S	0	0	51	0	0
RAWAH						
## 3	S	0	0	51	0	0
RAWAH						
## 4	S	0	0	51	0	0
RAWAH						
## 5	S	0	0	51	0	0
RAWAH						
## 6	CC	0	0	51	0	0
RAWAH						
## 7	S	0	0	51	0	0
RAWAH						
## 8	S	0	0	51	0	0
RAWAH						
## 9	S	0	0	51	0	0
RAWAH						
## 10	CC	0	0	51	0	0
RAWAH						
## 11	CC	0	0	51	0	0
RAWAH						
## 12	CC	0	0	51	0	0
RAWAH						
## 13	CC	0	0	51	0	0
RAWAH						
## 14	CC	0	0	51	0	0
RAWAH						
## 15	CC	0	0	51	0	0
RAWAH						
## 16	CC	0	0	51	0	0
RAWAH						
## 17	CC	0	1	51	0	0
RAWAH						
## 18	CC	1	0	51	0	0

RAWAH						
## 19	CC	1	0	51	0	0
RAWAH						
## 20	CC	1	0	51	0	0
RAWAH						
## 21	CC	1	0	51	0	0
RAWAH						
## 22	CC	1	0	51	0	0
RAWAH						
## 23	CC	1	0	51	0	0
RAWAH						
## 24	CC	1	0	51	0	0
RAWAH						
## 25	CV	0	0	51	0	0
RAWAH						
## 26	CV	0	0	51	0	0
RAWAH						
## 27	CV	0	0	51	0	0
RAWAH						
## 28	CC	1	0	51	0	1
RAWAH						
## 29	S	0	1	51	0	0
RAWAH						
## 30	S	0	0	51	0	0
RAWAH						
## 31	S	1	0	51	0	1
RAWAH						
## 32	CC	1	0	51	0	0
RAWAH						
## 33	S	1	0	51	0	0
RAWAH						
## 34	F	0	0	51	0	0
RAWAH						
## 35	CC	0	0	51	0	1
SNOW						
## 36	CC	0	0	51	0	0
SNOW						
## 37	CC	0	0	51	0	1
SNOW						
## 38	S	0	1	51	0	0
SNOW						
## 39	CC	1	1	51	0	0

SNOW						
## 40	CC	1	0	51	0	0
SNOW						
## 41	CC	1	1	51	0	1
SNOW						
## 42	S	0	0	51	0	1
SNOW						
## 43	S	0	0	51	0	1
SNOW						
## 44	S	0	0	51	0	1
SNOW						
## 45	CC	0	1	51	0	0
LONG						
## 46	F	0	1	51	0	0
LONG						
## 47	F	0	0	51	0	0
LONG						
## 48	F	0	0	51	0	0
LONG						
## 49	F	0	0	51	0	0
LONG						
## 50	F	0	0	51	0	0
LONG						
## 51	F	0	0	51	0	0
LONG						
## 52	CC	1	0	51	0	0
LONG						
## 53	CC	1	0	51	0	0
LONG						
## 54	CC	1	0	51	0	0
LONG						
## 55	CC	0	0	51	0	0
LONG						
## 56	CC	0	0	51	0	0
LONG						
## 57	CC	0	1	51	0	0
LONG						
## 58	CC	0	1	51	0	0
LONG						
## 59	F	0	0	51	0	0
LONG						
## 60	F	0	0	51	0	0

LONG						
## 61	CC	0	0	51	0	0
LONG						
## 62	F	0	0	51	0	0
LONG						
## 63	CC	0	0	51	0	0
LONG						
## 64	CC	0	0	51	0	0
LONG						
## 65	F	0	0	51	0	0
LONG						
## 66	CC	1	0	51	0	0
LONG						
## 67	CC	0	0	51	0	0
LONG						
## 68	CC	1	0	51	0	0
LONG						
## 69	CC	0	1	51	0	0
LONG						
## 70	CC	0	0	51	0	0
LONG						
## 71	CC	0	0	51	0	0
LONG						
## 72	S	0	0	51	0	0
LONG						
## 73	F	0	0	51	0	0
LONG						
## 74	CV	0	0	51	0	0
LONG						
## 75	CC	1	0	51	0	0
LONG						
## 76	CV	0	0	51	0	0
LONG						
## 77	CC	1	0	51	0	0
LONG						
## 78	CC	1	0	51	0	0
LONG						
## 79	CC	1	0	51	0	0
LONG						
## 80	CC	1	0	51	0	1
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## 255	51	51
## 256	51	51

litter

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.	Substrate
## 1	1	1	ELKHORN	A	8-10	25.0
F						L
## 2	8	92	RAWAH	A	40-42	24.0
F						L
## 3	20	137	SNOW	B	14-16	17.0
F						L/M
## 4	25	210	LONG	A	2-4	4.5
F						L
## 5	25	211	LONG	A	2-4	6.8
CC						L
## 6	30	306	FISH	A	34-36	16.0
F						L
## 7	30	307	FISH	B	44-46	35.1
S						L
## 8	38	495	CAM	B	18-20	16.0
S						L
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse
## 1	CC	0	0	1.25	0	0
ELKHORN						
## 2	S	1	1	51.00	0	0
RAWAH						
## 3	F	0	0	51.00	0	0
SNOW						
## 4	F	0	0	51.00	0	0
LONG						

## 5	F	0	1	51.00	0	0
LONG						
## 6	F	1	0	51.00	0	1
FISH						
## 7	S	0	0	51.00	1	0
FISH						
## 8	S	1	0	51.00	0	0
CAM						

## site.Number height Cluster UTM.Easting..13T. UTM.Northing  
Elevation Slope

## 1	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 2	8	24.0	RAWAH	426956.0	4499540
2724	-9				
## 3	20	17.0	SNOW	426996.6	4492304
2959	-10				
## 4	25	4.5	LONG	431465.0	4490417
3068	-7				
## 5	25	6.8	LONG	431465.0	4490417
3068	-7				
## 6	30	16.0	FISH	455545.0	4496202
2462	-5				
## 7	30	35.1	FISH	455545.0	4496202
2462	-5				
## 8	38	16.0	CAM	434173.0	4486246
3154	-4				

## Aspect Topographic.Position Transect.A..ORIENTATION.DEGREES.  
Transect.B

## 1	88	CC	NA
NA			
## 2	340	F	60
330			
## 3	12	CV	228
312			
## 4	130	F	222
310			
## 5	130	F	222
310			
## 6	58	F	146
54			
## 7	58	F	146
54			

## 8	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	7	
## 2	51	51	
## 3	51	51	
## 4	51	51	
## 5	51	51	
## 6	51	51	
## 7	51	51	
## 8	51	51	

mineral

##	SITE..	seedling	SITE.NAME	Transect	Subplot	Height..cm.	Substrate
Small.Topo							
## 1	1	2	ELKHORN	A	38-40	30.0	M
F							
## 2	1	3	ELKHORN	B	12-14	25.0	M
F							
## 3	5	7	LAKE	A	14-16	20.5	M
CC							
## 4	6	8	LAKE	A	2-4	44.0	M
CC							
## 5	6	12	LAKE	A	16-18	39.0	M
S							
## 6	6	13	LAKE	A	16-18	18.0	M
F							
## 7	7	26	RAWAH	A	0-2	15.0	M
CC							
## 8	7	27	RAWAH	A	0-2	42.0	M
CC							
## 9	7	43	RAWAH	B	36-38	27.0	M
CC							
## 10	7	46	RAWAH	B	38-40	26.0	M
F							
## 11	7	47	RAWAH	B	38-40	30.0	M
F							
## 12	7	48	RAWAH	B	38-40	54.0	M
F							
## 13	7	51	RAWAH	B	42-44	29.0	M
CC							

## 14	7	59	RAWAH	B	42-44	35.0	M
CC							
## 15	7	67	RAWAH	B	42-44	16.0	M
F							
## 16	7	69	RAWAH	B	42-44	25.0	M
F							
## 17	7	70	RAWAH	B	42-44	17.0	M
F							
## 18	7	71	RAWAH	B	42-44	26.0	M
F							
## 19	7	74	RAWAH	B	42-44	20.0	M
S							
## 20	7	75	RAWAH	B	42-44	40.0	M
F							
## 21	7	79	RAWAH	B	44-46	51.0	M
F							
## 22	7	80	RAWAH	B	46-48	26.0	M
F							
## 23	7	81	RAWAH	B	46-48	29.0	M
F							
## 24	7	82	RAWAH	B	46-48	8.0	M
CC							
## 25	7	83	RAWAH	B	46-48	43.0	M
S							
## 26	7	84	RAWAH	B	46-48	15.0	M
S							
## 27	7	85	RAWAH	B	46-48	47.0	M
CC							
## 28	7	86	RAWAH	B	46-48	32.0	M
CC							
## 29	7	88	RAWAH	B	48-50	17.0	M
CV							
## 30	7	89	RAWAH	B	48-50	26.0	M
CV							
## 31	7	90	RAWAH	B	48-50	32.0	M
CV							
## 32	8	91	RAWAH	A	0-2	9.0	M
S							
## 33	12	98	BLUE	A	0-2	28.0	M
S							
## 34	12	99	BLUE	A	0-2	16.0	M
S							

## 35	12	100	BLUE	A	0-2	6.0	M
S							
## 36	14	102	RES	B	16-18	10.0	M
CC							
## 37	17	105	RAWAH	B	40-42	6.0	M
CC							
## 38	20	119	SNOW	A	4-6	6.0	M
S							
## 39	20	164	SNOW	B	20-22	19.5	M
S							
## 40	25	232	LONG	A	8-10	7.1	M
CC							
## 41	25	233	LONG	A	8-10	13.6	M
S							
## 42	25	237	LONG	A	8-10	7.1	M
CV							
## 43	25	238	LONG	A	8-10	3.2	M
CC							
## 44	25	251	LONG	A	12-14	3.5	M
CC							
## 45	25	252	LONG	A	12-14	9.9	M
S							
## 46	25	256	LONG	A	16-18	8.8	M
F							
## 47	25	266	LONG	A	24-26	4.0	M
F							
## 48	25	267	LONG	B	36-38	7.0	M
S							
## 49	25	269	LONG	B	36-38	9.5	M
S							
## 50	28	302	FISH	A	24-26	15.0	M
F							
## 51	33	310	CR69	A	42-44	9.5	M
S							
## 52	33	311	CR69	B	38-40	25.9	M
F							
## 53	34	313	CAM	A	18-20	1.1	M
CC							
## 54	36	357	CAM	A	40-42	5.4	M
CC							
## 55	36	363	CAM	A	46-48	2.3	M
CC							



##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse
site.name						
## 1	F	0	0	1.3	0	0
ELKHORN						
## 2	F	0	0	0.9	0	0
ELKHORN						
## 3	CC	0	0	51.0	0	0
LAKE						
## 4	F	0	0	51.0	0	0
LAKE						
## 5	S	1	0	51.0	0	1
LAKE						
## 6	F	0	0	51.0	0	0
LAKE						
## 7	CC	0	0	51.0	0	0
RAWAH						
## 8	CC	0	0	51.0	0	1
RAWAH						
## 9	F	0	0	51.0	0	0
RAWAH						
## 10	F	1	0	51.0	0	0
RAWAH						
## 11	F	0	0	51.0	0	0
RAWAH						
## 12	F	0	0	51.0	0	0
RAWAH						
## 13	CC	0	1	51.0	0	0
RAWAH						
## 14	CC	1	0	51.0	0	0
RAWAH						
## 15	CC	0	0	51.0	0	0
RAWAH						
## 16	F	0	0	51.0	0	0
RAWAH						
## 17	F	0	0	51.0	0	0
RAWAH						
## 18	CC	0	0	51.0	0	1
RAWAH						
## 19	CC	0	0	51.0	0	0
RAWAH						
## 20	F	0	0	51.0	0	0
RAWAH						

## 21	F	0	0	51.0	0	0
RAWAH						
## 22	CC	1	0	51.0	0	0
RAWAH						
## 23	F	0	0	51.0	0	1
RAWAH						
## 24	F	1	0	51.0	0	1
RAWAH						
## 25	F	1	0	51.0	0	0
RAWAH						
## 26	F	1	0	51.0	0	0
RAWAH						
## 27	F	0	0	51.0	0	0
RAWAH						
## 28	F	0	0	51.0	0	0
RAWAH						
## 29	F	0	1	51.0	0	1
RAWAH						
## 30	F	0	1	51.0	0	0
RAWAH						
## 31	CV	0	0	51.0	0	0
RAWAH						
## 32	S	1	1	51.0	0	0
RAWAH						
## 33	S	1	0	51.0	0	0
BLUE						
## 34	S	1	0	51.0	0	0
BLUE						
## 35	S	1	0	51.0	0	0
BLUE						
## 36	S	1	1	51.0	0	0
RES						
## 37	S	0	0	30.0	0	0
RAWAH						
## 38	S	0	1	51.0	0	0
SNOW						
## 39	S	0	0	51.0	0	1
SNOW						
## 40	CC	1	0	51.0	0	0
LONG						
## 41	CC	1	0	51.0	0	0
LONG						

## 42	F	0	0	51.0	0	0
LONG						
## 43	F	1	0	51.0	0	0
LONG						
## 44	CC	0	0	51.0	0	0
LONG						
## 45	CC	0	0	51.0	0	0
LONG						
## 46	CC	1	0	51.0	0	1
LONG						
## 47	F	0	0	51.0	0	1
LONG						
## 48	F	0	0	51.0	0	0
LONG						
## 49	S	0	0	51.0	0	0
LONG						
## 50	F	0	0	7.0	0	0
FISH						
## 51	S	0	0	0.1	0	0
CR69						
## 52	S	0	0	0.6	0	0
CR69						
## 53	F	0	0	51.0	0	0
CAM						
## 54	S	0	1	51.0	0	0
CAM						
## 55	CC	0	0	51.0	0	0
CAM						

##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing
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## 1	1	30.0	ELKHORN	447029.0	4510687
2712	4				
## 2	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 3	5	20.5	LAKE	427646.0	4494147
2825	-5				
## 4	6	44.0	LAKE	427647.0	4493988
2835	-6				
## 5	6	39.0	LAKE	427647.0	4493988
2835	-6				
## 6	6	18.0	LAKE	427647.0	4493988
2835	-6				

## 7		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 8		7	42.0	RAWAH	427082.0	4499706
2710	-7					
## 9		7	27.0	RAWAH	427082.0	4499706
2710	-7					
## 10		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 11		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	54.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 18		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 19		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 20		7	40.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	51.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	43.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 27		7	47.0	RAWAH	427082.0	4499706
2710	-7					

## 28		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 29		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 30		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 31		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 32		8	9.0	RAWAH	426956.0	4499540
2724	-9					
## 33		12	28.0	BLUE	427290.0	4493596
2926	-11					
## 34		12	16.0	BLUE	427290.0	4493596
2926	-11					
## 35		12	6.0	BLUE	427290.0	4493596
2926	-11					
## 36		14	10.0	RES	426126.0	4490180
3040	-7					
## 37		17	6.0	RAWAH	426806.8	4499771
2715	-6					
## 38		20	6.0	SNOW	426996.6	4492304
2959	-10					
## 39		20	19.5	SNOW	426996.6	4492304
2959	-10					
## 40		25	7.1	LONG	431465.0	4490417
3068	-7					
## 41		25	13.6	LONG	431465.0	4490417
3068	-7					
## 42		25	7.1	LONG	431465.0	4490417
3068	-7					
## 43		25	3.2	LONG	431465.0	4490417
3068	-7					
## 44		25	3.5	LONG	431465.0	4490417
3068	-7					
## 45		25	9.9	LONG	431465.0	4490417
3068	-7					
## 46		25	8.8	LONG	431465.0	4490417
3068	-7					
## 47		25	4.0	LONG	431465.0	4490417
3068	-7					
## 48		25	7.0	LONG	431465.0	4490417
3068	-7					

## 49	25	9.5	LONG	431465.0	4490417
3068	-7				
## 50	28	15.0	FISH	454709.0	4496418
2571	-5				
## 51	33	9.5	CR69	451026.0	4505247
2596	-10				
## 52	33	25.9	CR69	451026.0	4505247
2596	-10				
## 53	34	1.1	CAM	434425.0	4485996
3106	-9				
## 54	36	5.4	CAM	434021.0	4485004
3020	-10				
## 55	36	2.3	CAM	434021.0	4485004
3020	-10				
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.		
Transect.B					
## 1	88		CC		NA
NA					
## 2	88		CC		NA
NA					
## 3	75		CC		75
165					
## 4	173		CC		18
108					
## 5	173		CC		18
108					
## 6	173		CC		18
108					
## 7	30		F		252
162					
## 8	30		F		252
162					
## 9	30		F		252
162					
## 10	30		F		252
162					
## 11	30		F		252
162					
## 12	30		F		252
162					
## 13	30		F		252
162					

## 14	30	F	252
162			
## 15	30	F	252
162			
## 16	30	F	252
162			
## 17	30	F	252
162			
## 18	30	F	252
162			
## 19	30	F	252
162			
## 20	30	F	252
162			
## 21	30	F	252
162			
## 22	30	F	252
162			
## 23	30	F	252
162			
## 24	30	F	252
162			
## 25	30	F	252
162			
## 26	30	F	252
162			
## 27	30	F	252
162			
## 28	30	F	252
162			
## 29	30	F	252
162			
## 30	30	F	252
162			
## 31	30	F	252
162			
## 32	340	F	60
330			
## 33	32	F	250
159			
## 34	32	F	250
159			

## 35	32	F	250
159			
## 36	342	F	276
186			
## 37	108	F/S	142
228			
## 38	12	CV	228
312			
## 39	12	CV	228
312			
## 40	130	F	222
310			
## 41	130	F	222
310			
## 42	130	F	222
310			
## 43	130	F	222
310			
## 44	130	F	222
310			
## 45	130	F	222
310			
## 46	130	F	222
310			
## 47	130	F	222
310			
## 48	130	F	222
310			
## 49	130	F	222
310			
## 50	286	CC	106
190			
## 51	294	S	114
200			
## 52	294	S	114
200			
## 53	194	F/S	274
180			
## 54	216	F/S	166
74			
## 55	216	F/S	166
74			



##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen
## 1	51	7.00
## 2	51	7.00
## 3	51	51.00
## 4	51	51.00
## 5	51	51.00
## 6	51	51.00
## 7	51	25.00
## 8	51	25.00
## 9	51	25.00
## 10	51	25.00
## 11	51	25.00
## 12	51	25.00
## 13	51	25.00
## 14	51	25.00
## 15	51	25.00
## 16	51	25.00
## 17	51	25.00
## 18	51	25.00
## 19	51	25.00
## 20	51	25.00
## 21	51	25.00
## 22	51	25.00
## 23	51	25.00
## 24	51	25.00
## 25	51	25.00
## 26	51	25.00
## 27	51	25.00
## 28	51	25.00
## 29	51	25.00
## 30	51	25.00
## 31	51	25.00
## 32	51	51.00
## 33	51	51.00
## 34	51	51.00
## 35	51	51.00
## 36	51	51.00
## 37	51	65.00
## 38	51	51.00
## 39	51	51.00

## 40	51	51.00
## 41	51	51.00
## 42	51	51.00
## 43	51	51.00
## 44	51	51.00
## 45	51	51.00
## 46	51	51.00
## 47	51	51.00
## 48	51	51.00
## 49	51	51.00
## 50	51	5.40
## 51	51	9.95
## 52	51	9.95
## 53	51	51.00
## 54	51	51.00
## 55	51	51.00

rock

## [1] SITE..	seedling
## [3] SITE.NAME	Transect
## [5] Subplot	Height..cm.
## [7] Substrate	Small.Topo
## [9] Large.Topo	Large.CWD
## [11] Small.CWD	Sucker.Dist.
## [13] Canopy.Cover	Browse
## [15] site.name	site.Number
## [17] height	Cluster
## [19] UTM.Easting..13T.	UTM.Northing
## [21] Elevation	Slope
## [23] Aspect	Topographic.Position
## [25] Transect.A..ORIENTATION.DEGREES.	Transect.B
## [27] Distance.to.nearest.live.aspen	
Distance.to.nearest.dead.aspen	
## <0 rows> (or 0-length row.names)	

wood

##	SITE..	seedling	SITE.NAME	Transect	Subplot	Height..cm.	Substrate
## 1	7	63	RAWAH	B	42-44	30	W
S							

## 2	7	64	RAWAH	B	42-44	30	W
S							
## 3	7	65	RAWAH	B	42-44	39	W
S							
## 4	7	68	RAWAH	B	42-44	25	W
F							
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	F	1	0	51	0	0	
RAWAH							
## 2	S	1	0	51	0	1	
RAWAH							
## 3	S	1	0	51	0	1	
RAWAH							
## 4	F	1	0	51	0	0	
RAWAH							
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing		
Elevation							
Slope							
## 1	7	30	RAWAH	427082	4499706		
2710	-7						
## 2	7	30	RAWAH	427082	4499706		
2710	-7						
## 3	7	39	RAWAH	427082	4499706		
2710	-7						
## 4	7	25	RAWAH	427082	4499706		
2710	-7						
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.				
Transect.B							
## 1	30	F			252		
162							
## 2	30	F			252		
162							
## 3	30	F			252		
162							
## 4	30	F			252		
162							
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen					
## 1	51	25					
## 2	51	25					
## 3	51	25					
## 4	51	25					

#elevation hist

low

##	SITE..	seedling	SITE.NAME	Transect	Subplot	Height..cm.	Substrate
## 1	1	1	ELKHORN	A	8-10	25.0	L
F							
## 2	1	2	ELKHORN	A	38-40	30.0	M
F							
## 3	1	3	ELKHORN	B	12-14	25.0	M
F							
## 4	2	4	FISH	N/A		NA	
## 5	3	5	FISH	N/A		NA	
## 6	7	14	RAWAH	A	0-2	27.0	B/M
CC							
## 7	7	15	RAWAH	A	0-2	26.0	B/M
F							
## 8	7	16	RAWAH	A	0-2	30.0	B/M
F							
## 9	7	17	RAWAH	A	0-2	21.0	B/M
F							
## 10	7	18	RAWAH	A	0-2	17.0	B/M
S							
## 11	7	19	RAWAH	A	0-2	31.0	B/M
S							
## 12	7	20	RAWAH	A	0-2	26.0	B/M
CC							
## 13	7	21	RAWAH	A	0-2	16.0	B/M
S							
## 14	7	22	RAWAH	A	0-2	17.0	B/M
CC							
## 15	7	23	RAWAH	A	0-2	28.0	B/M
CC							
## 16	7	24	RAWAH	A	0-2	28.0	B/M
CC							
## 17	7	25	RAWAH	A	0-2	44.0	B/M
CC							
## 18	7	26	RAWAH	A	0-2	15.0	M
CC							
## 19	7	27	RAWAH	A	0-2	42.0	M
CC							

## 20	7	28	RAWAH	A	16-18	21.0	A/M
F							
## 21	7	29	RAWAH	B	14-16	22.0	A
F							
## 22	7	30	RAWAH	B	14-16	19.0	A
F							
## 23	7	31	RAWAH	B	14-16	26.0	A
F							
## 24	7	32	RAWAH	B	14-16	24.0	A
F							
## 25	7	33	RAWAH	B	16-18	19.0	A
CC							
## 26	7	34	RAWAH	B	16-18	18.0	A
CC							
## 27	7	35	RAWAH	B	16-18	11.0	A
CC							
## 28	7	36	RAWAH	B	30-32	21.0	B/M
F							
## 29	7	37	RAWAH	B	30-32	31.0	B/M
F							
## 30	7	38	RAWAH	B	30-32	35.0	B/M
F							
## 31	7	39	RAWAH	B	30-32	31.0	B/M
F							
## 32	7	40	RAWAH	B	34-36	23.0	A
S							
## 33	7	41	RAWAH	B	34-36	13.0	A
CV							
## 34	7	42	RAWAH	B	34-36	29.0	A
CV							
## 35	7	43	RAWAH	B	36-38	27.0	M
CC							
## 36	7	44	RAWAH	B	36-38	14.0	A
F							
## 37	7	45	RAWAH	B	36-38	20.0	A
F							
## 38	7	46	RAWAH	B	38-40	26.0	M
F							
## 39	7	47	RAWAH	B	38-40	30.0	M
F							
## 40	7	48	RAWAH	B	38-40	54.0	M
F							

## 41	7	49	RAWAH	B	40-42	26.0	A
CC							
## 42	7	50	RAWAH	B	42-44	37.0	B/M
F							
## 43	7	51	RAWAH	B	42-44	29.0	M
CC							
## 44	7	52	RAWAH	B	42-44	18.0	B/M
CC							
## 45	7	53	RAWAH	B	42-44	17.0	B/M
CC							
## 46	7	54	RAWAH	B	42-44	18.0	B/M
CC							
## 47	7	55	RAWAH	B	42-44	15.0	B/M
CC							
## 48	7	56	RAWAH	B	42-44	25.0	B/M
CC							
## 49	7	57	RAWAH	B	42-44	39.0	B/M
CC							
## 50	7	58	RAWAH	B	42-44	28.0	B/M
CC							
## 51	7	59	RAWAH	B	42-44	35.0	M
CC							
## 52	7	60	RAWAH	B	42-44	11.0	B
CV							
## 53	7	61	RAWAH	B	42-44	15.0	B
CV							
## 54	7	62	RAWAH	B	42-44	8.0	B
CV							
## 55	7	63	RAWAH	B	42-44	30.0	W
S							
## 56	7	64	RAWAH	B	42-44	30.0	W
S							
## 57	7	65	RAWAH	B	42-44	39.0	W
S							
## 58	7	66	RAWAH	B	42-44	25.0	B/M
CC							
## 59	7	67	RAWAH	B	42-44	16.0	M
F							
## 60	7	68	RAWAH	B	42-44	25.0	W
F							
## 61	7	69	RAWAH	B	42-44	25.0	M
F							

## 62	7	70	RAWAH	B	42-44	17.0	M
F							
## 63	7	71	RAWAH	B	42-44	26.0	M
F							
## 64	7	72	RAWAH	B	42-44	26.0	B
CC							
## 65	7	73	RAWAH	B	42-44	16.0	B/M
S							
## 66	7	74	RAWAH	B	42-44	20.0	M
S							
## 67	7	75	RAWAH	B	42-44	40.0	M
F							
## 68	7	76	RAWAH	B	44-46	34.0	B/M
S							
## 69	7	77	RAWAH	B	44-46	60.0	B/M
S							
## 70	7	78	RAWAH	B	44-46	45.0	B/M
CC							
## 71	7	79	RAWAH	B	44-46	51.0	M
F							
## 72	7	80	RAWAH	B	46-48	26.0	M
F							
## 73	7	81	RAWAH	B	46-48	29.0	M
F							
## 74	7	82	RAWAH	B	46-48	8.0	M
CC							
## 75	7	83	RAWAH	B	46-48	43.0	M
S							
## 76	7	84	RAWAH	B	46-48	15.0	M
S							
## 77	7	85	RAWAH	B	46-48	47.0	M
CC							
## 78	7	86	RAWAH	B	46-48	32.0	M
CC							
## 79	7	87	RAWAH	B	46-48	34.0	B
F							
## 80	7	88	RAWAH	B	48-50	17.0	M
CV							
## 81	7	89	RAWAH	B	48-50	26.0	M
CV							
## 82	7	90	RAWAH	B	48-50	32.0	M
CV							

## 83	28	302	FISH	A	24-26	15.0	M
F							
## 84	28	303	FISH	B	16-18	20.0	A
F							
## 85	28	304	FISH	B	44-46	17.0	A
CC							
## 86	29	305	FISH	N/A		NA	
## 87	30	306	FISH	A	34-36	16.0	L
F							
## 88	30	307	FISH	B	44-46	35.1	L
S							
## 89	31	308	CR69	N/A		NA	
## 90	32	309	CR69	N/A		NA	
## 91	33	310	CR69	A	42-44	9.5	M
S							
## 92	33	311	CR69	B	38-40	25.9	M
F							
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	CC	0	0	1.25	0	0	
ELKHORN							
## 2	F	0	0	1.30	0	0	
ELKHORN							
## 3	F	0	0	0.90	0	0	
ELKHORN							
## 4		NA	NA	NA	NA	NA	
FISH							
## 5		NA	NA	NA	NA	NA	
FISH							
## 6	S	0	0	51.00	0	1	
RAWAH							
## 7	S	0	0	51.00	0	0	
RAWAH							
## 8	S	0	0	51.00	0	0	
RAWAH							
## 9	S	0	0	51.00	0	0	
RAWAH							
## 10	S	0	0	51.00	0	0	
RAWAH							
## 11	CC	0	0	51.00	0	0	
RAWAH							



## 12	S	0	0	51.00	0	0
RAWAH						
## 13	S	0	0	51.00	0	0
RAWAH						
## 14	S	0	0	51.00	0	0
RAWAH						
## 15	CC	0	0	51.00	0	0
RAWAH						
## 16	CC	0	0	51.00	0	0
RAWAH						
## 17	CC	0	0	51.00	0	0
RAWAH						
## 18	CC	0	0	51.00	0	0
RAWAH						
## 19	CC	0	0	51.00	0	1
RAWAH						
## 20	F	1	0	51.00	0	0
RAWAH						
## 21	F	0	0	51.00	0	1
RAWAH						
## 22	F	0	0	51.00	0	1
RAWAH						
## 23	F	0	0	51.00	0	0
RAWAH						
## 24	F	0	1	51.00	0	0
RAWAH						
## 25	CC	0	0	51.00	0	0
RAWAH						
## 26	CC	0	0	51.00	0	0
RAWAH						
## 27	CC	0	0	51.00	0	0
RAWAH						
## 28	CC	0	0	51.00	0	0
RAWAH						
## 29	CC	0	0	51.00	0	0
RAWAH						
## 30	CC	0	0	51.00	0	0
RAWAH						
## 31	CC	0	0	51.00	0	0
RAWAH						
## 32	F	1	0	51.00	0	0
RAWAH						

## 33	S	1	0	51.00	0	0
RAWAH						
## 34	S	1	0	51.00	0	0
RAWAH						
## 35	F	0	0	51.00	0	0
RAWAH						
## 36	F	1	0	51.00	0	0
RAWAH						
## 37	F	1	0	51.00	0	1
RAWAH						
## 38	F	1	0	51.00	0	0
RAWAH						
## 39	F	0	0	51.00	0	0
RAWAH						
## 40	F	0	0	51.00	0	0
RAWAH						
## 41	F	1	0	51.00	0	0
RAWAH						
## 42	CC	0	1	51.00	0	0
RAWAH						
## 43	CC	0	1	51.00	0	0
RAWAH						
## 44	CC	1	0	51.00	0	0
RAWAH						
## 45	CC	1	0	51.00	0	0
RAWAH						
## 46	CC	1	0	51.00	0	0
RAWAH						
## 47	CC	1	0	51.00	0	0
RAWAH						
## 48	CC	1	0	51.00	0	0
RAWAH						
## 49	CC	1	0	51.00	0	0
RAWAH						
## 50	CC	1	0	51.00	0	0
RAWAH						
## 51	CC	1	0	51.00	0	0
RAWAH						
## 52	CV	0	0	51.00	0	0
RAWAH						
## 53	CV	0	0	51.00	0	0
RAWAH						

## 54	CV	0	0	51.00	0	0
RAWAH						
## 55	F	1	0	51.00	0	0
RAWAH						
## 56	S	1	0	51.00	0	1
RAWAH						
## 57	S	1	0	51.00	0	1
RAWAH						
## 58	CC	1	0	51.00	0	1
RAWAH						
## 59	CC	0	0	51.00	0	0
RAWAH						
## 60	F	1	0	51.00	0	0
RAWAH						
## 61	F	0	0	51.00	0	0
RAWAH						
## 62	F	0	0	51.00	0	0
RAWAH						
## 63	CC	0	0	51.00	0	1
RAWAH						
## 64	S	0	1	51.00	0	0
RAWAH						
## 65	S	0	0	51.00	0	0
RAWAH						
## 66	CC	0	0	51.00	0	0
RAWAH						
## 67	F	0	0	51.00	0	0
RAWAH						
## 68	S	1	0	51.00	0	1
RAWAH						
## 69	CC	1	0	51.00	0	0
RAWAH						
## 70	S	1	0	51.00	0	0
RAWAH						
## 71	F	0	0	51.00	0	0
RAWAH						
## 72	CC	1	0	51.00	0	0
RAWAH						
## 73	F	0	0	51.00	0	1
RAWAH						
## 74	F	1	0	51.00	0	1
RAWAH						

## 75	F	1	0	51.00	0	0
RAWAH						
## 76	F	1	0	51.00	0	0
RAWAH						
## 77	F	0	0	51.00	0	0
RAWAH						
## 78	F	0	0	51.00	0	0
RAWAH						
## 79	F	0	0	51.00	0	0
RAWAH						
## 80	F	0	1	51.00	0	1
RAWAH						
## 81	F	0	1	51.00	0	0
RAWAH						
## 82	CV	0	0	51.00	0	0
RAWAH						
## 83	F	0	0	7.00	0	0
FISH						
## 84	CC	0	0	12.00	0	0
FISH						
## 85	CC	0	0	19.00	0	0
FISH						
## 86		NA	NA	NA	NA	NA
FISH						
## 87	F	1	0	51.00	0	1
FISH						
## 88	S	0	0	51.00	1	0
FISH						
## 89		NA	NA	NA	NA	NA
CR69						
## 90		NA	NA	NA	NA	NA
CR69						
## 91	S	0	0	0.10	0	0
CR69						
## 92	S	0	0	0.60	0	0
CR69						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
	Elevation	Slope				
## 1	1	25.0	ELKHORN	447029	4510687	
2712	4					
## 2	1	30.0	ELKHORN	447029	4510687	
2712	4					

## 3		1	25.0	ELKHORN	447029	4510687
2712	4					
## 4		2	NA	FISH	455188	4496280
2519	8					
## 5		3	NA	FISH	454831	4496229
2546	10					
## 6		7	27.0	RAWAH	427082	4499706
2710	-7					
## 7		7	26.0	RAWAH	427082	4499706
2710	-7					
## 8		7	30.0	RAWAH	427082	4499706
2710	-7					
## 9		7	21.0	RAWAH	427082	4499706
2710	-7					
## 10		7	17.0	RAWAH	427082	4499706
2710	-7					
## 11		7	31.0	RAWAH	427082	4499706
2710	-7					
## 12		7	26.0	RAWAH	427082	4499706
2710	-7					
## 13		7	16.0	RAWAH	427082	4499706
2710	-7					
## 14		7	17.0	RAWAH	427082	4499706
2710	-7					
## 15		7	28.0	RAWAH	427082	4499706
2710	-7					
## 16		7	28.0	RAWAH	427082	4499706
2710	-7					
## 17		7	44.0	RAWAH	427082	4499706
2710	-7					
## 18		7	15.0	RAWAH	427082	4499706
2710	-7					
## 19		7	42.0	RAWAH	427082	4499706
2710	-7					
## 20		7	21.0	RAWAH	427082	4499706
2710	-7					
## 21		7	22.0	RAWAH	427082	4499706
2710	-7					
## 22		7	19.0	RAWAH	427082	4499706
2710	-7					
## 23		7	26.0	RAWAH	427082	4499706
2710	-7					

## 24		7	24.0	RAWAH	427082	4499706
2710	-7					
## 25		7	19.0	RAWAH	427082	4499706
2710	-7					
## 26		7	18.0	RAWAH	427082	4499706
2710	-7					
## 27		7	11.0	RAWAH	427082	4499706
2710	-7					
## 28		7	21.0	RAWAH	427082	4499706
2710	-7					
## 29		7	31.0	RAWAH	427082	4499706
2710	-7					
## 30		7	35.0	RAWAH	427082	4499706
2710	-7					
## 31		7	31.0	RAWAH	427082	4499706
2710	-7					
## 32		7	23.0	RAWAH	427082	4499706
2710	-7					
## 33		7	13.0	RAWAH	427082	4499706
2710	-7					
## 34		7	29.0	RAWAH	427082	4499706
2710	-7					
## 35		7	27.0	RAWAH	427082	4499706
2710	-7					
## 36		7	14.0	RAWAH	427082	4499706
2710	-7					
## 37		7	20.0	RAWAH	427082	4499706
2710	-7					
## 38		7	26.0	RAWAH	427082	4499706
2710	-7					
## 39		7	30.0	RAWAH	427082	4499706
2710	-7					
## 40		7	54.0	RAWAH	427082	4499706
2710	-7					
## 41		7	26.0	RAWAH	427082	4499706
2710	-7					
## 42		7	37.0	RAWAH	427082	4499706
2710	-7					
## 43		7	29.0	RAWAH	427082	4499706
2710	-7					
## 44		7	18.0	RAWAH	427082	4499706
2710	-7					

## 45		7	17.0	RAWAH	427082	4499706
2710	-7					
## 46		7	18.0	RAWAH	427082	4499706
2710	-7					
## 47		7	15.0	RAWAH	427082	4499706
2710	-7					
## 48		7	25.0	RAWAH	427082	4499706
2710	-7					
## 49		7	39.0	RAWAH	427082	4499706
2710	-7					
## 50		7	28.0	RAWAH	427082	4499706
2710	-7					
## 51		7	35.0	RAWAH	427082	4499706
2710	-7					
## 52		7	11.0	RAWAH	427082	4499706
2710	-7					
## 53		7	15.0	RAWAH	427082	4499706
2710	-7					
## 54		7	8.0	RAWAH	427082	4499706
2710	-7					
## 55		7	30.0	RAWAH	427082	4499706
2710	-7					
## 56		7	30.0	RAWAH	427082	4499706
2710	-7					
## 57		7	39.0	RAWAH	427082	4499706
2710	-7					
## 58		7	25.0	RAWAH	427082	4499706
2710	-7					
## 59		7	16.0	RAWAH	427082	4499706
2710	-7					
## 60		7	25.0	RAWAH	427082	4499706
2710	-7					
## 61		7	25.0	RAWAH	427082	4499706
2710	-7					
## 62		7	17.0	RAWAH	427082	4499706
2710	-7					
## 63		7	26.0	RAWAH	427082	4499706
2710	-7					
## 64		7	26.0	RAWAH	427082	4499706
2710	-7					
## 65		7	16.0	RAWAH	427082	4499706
2710	-7					

## 66		7	20.0	RAWAH	427082	4499706
2710	-7					
## 67		7	40.0	RAWAH	427082	4499706
2710	-7					
## 68		7	34.0	RAWAH	427082	4499706
2710	-7					
## 69		7	60.0	RAWAH	427082	4499706
2710	-7					
## 70		7	45.0	RAWAH	427082	4499706
2710	-7					
## 71		7	51.0	RAWAH	427082	4499706
2710	-7					
## 72		7	26.0	RAWAH	427082	4499706
2710	-7					
## 73		7	29.0	RAWAH	427082	4499706
2710	-7					
## 74		7	8.0	RAWAH	427082	4499706
2710	-7					
## 75		7	43.0	RAWAH	427082	4499706
2710	-7					
## 76		7	15.0	RAWAH	427082	4499706
2710	-7					
## 77		7	47.0	RAWAH	427082	4499706
2710	-7					
## 78		7	32.0	RAWAH	427082	4499706
2710	-7					
## 79		7	34.0	RAWAH	427082	4499706
2710	-7					
## 80		7	17.0	RAWAH	427082	4499706
2710	-7					
## 81		7	26.0	RAWAH	427082	4499706
2710	-7					
## 82		7	32.0	RAWAH	427082	4499706
2710	-7					
## 83		28	15.0	FISH	454709	4496418
2571	-5					
## 84		28	20.0	FISH	454709	4496418
2571	-5					
## 85		28	17.0	FISH	454709	4496418
2571	-5					
## 86		29	NA	FISH	454247	4495871
2599	-9					



## 87	30	16.0	FISH	455545	4496202
2462 -5					
## 88	30	35.1	FISH	455545	4496202
2462 -5					
## 89	31	NA	CR69	450677	4508236
2574 -14					
## 90	32	NA	CR69	450822	4508064
2611 -3					
## 91	33	9.5	CR69	451026	4505247
2596 -10					
## 92	33	25.9	CR69	451026	4505247
2596 -10					
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.		
Transect.B					
## 1	88		CC		NA
NA					
## 2	88		CC		NA
NA					
## 3	88		CC		NA
NA					
## 4	169		S		59
149					
## 5	12		S		140
33					
## 6	30		F		252
162					
## 7	30		F		252
162					
## 8	30		F		252
162					
## 9	30		F		252
162					
## 10	30		F		252
162					
## 11	30		F		252
162					
## 12	30		F		252
162					
## 13	30		F		252
162					
## 14	30		F		252
162					

## 15	30	F	252
162			
## 16	30	F	252
162			
## 17	30	F	252
162			
## 18	30	F	252
162			
## 19	30	F	252
162			
## 20	30	F	252
162			
## 21	30	F	252
162			
## 22	30	F	252
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## 23	30	F	252
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## 24	30	F	252
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## 25	30	F	252
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## 26	30	F	252
162			
## 27	30	F	252
162			
## 28	30	F	252
162			
## 29	30	F	252
162			
## 30	30	F	252
162			
## 31	30	F	252
162			
## 32	30	F	252
162			
## 33	30	F	252
162			
## 34	30	F	252
162			
## 35	30	F	252
162			

## 36	30	F	252
162			
## 37	30	F	252
162			
## 38	30	F	252
162			
## 39	30	F	252
162			
## 40	30	F	252
162			
## 41	30	F	252
162			
## 42	30	F	252
162			
## 43	30	F	252
162			
## 44	30	F	252
162			
## 45	30	F	252
162			
## 46	30	F	252
162			
## 47	30	F	252
162			
## 48	30	F	252
162			
## 49	30	F	252
162			
## 50	30	F	252
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## 51	30	F	252
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## 52	30	F	252
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## 53	30	F	252
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## 54	30	F	252
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## 55	30	F	252
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## 56	30	F	252
162			

## 57	30	F	252
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## 58	30	F	252
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## 59	30	F	252
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## 60	30	F	252
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## 61	30	F	252
162			
## 62	30	F	252
162			
## 63	30	F	252
162			
## 64	30	F	252
162			
## 65	30	F	252
162			
## 66	30	F	252
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## 67	30	F	252
162			
## 68	30	F	252
162			
## 69	30	F	252
162			
## 70	30	F	252
162			
## 71	30	F	252
162			
## 72	30	F	252
162			
## 73	30	F	252
162			
## 74	30	F	252
162			
## 75	30	F	252
162			
## 76	30	F	252
162			
## 77	30	F	252
162			

## 78	30	F	252
162			
## 79	30	F	252
162			
## 80	30	F	252
162			
## 81	30	F	252
162			
## 82	30	F	252
162			
## 83	286	CC	106
190			
## 84	286	CC	106
190			
## 85	286	CC	106
190			
## 86	206	F/S	240
236			
## 87	58	F	146
54			
## 88	58	F	146
54			
## 89	266	F/S	6
94			
## 90	158	F	84
172			
## 91	294	S	114
200			
## 92	294	S	114
200			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	7.00	
## 2	51	7.00	
## 3	51	7.00	
## 4	51	51.00	
## 5	51	51.00	
## 6	51	25.00	
## 7	51	25.00	
## 8	51	25.00	
## 9	51	25.00	
## 10	51	25.00	

## 11	51	25.00
## 12	51	25.00
## 13	51	25.00
## 14	51	25.00
## 15	51	25.00
## 16	51	25.00
## 17	51	25.00
## 18	51	25.00
## 19	51	25.00
## 20	51	25.00
## 21	51	25.00
## 22	51	25.00
## 23	51	25.00
## 24	51	25.00
## 25	51	25.00
## 26	51	25.00
## 27	51	25.00
## 28	51	25.00
## 29	51	25.00
## 30	51	25.00
## 31	51	25.00
## 32	51	25.00
## 33	51	25.00
## 34	51	25.00
## 35	51	25.00
## 36	51	25.00
## 37	51	25.00
## 38	51	25.00
## 39	51	25.00
## 40	51	25.00
## 41	51	25.00
## 42	51	25.00
## 43	51	25.00
## 44	51	25.00
## 45	51	25.00
## 46	51	25.00
## 47	51	25.00
## 48	51	25.00
## 49	51	25.00
## 50	51	25.00

## 51	51	25.00
## 52	51	25.00
## 53	51	25.00
## 54	51	25.00
## 55	51	25.00
## 56	51	25.00
## 57	51	25.00
## 58	51	25.00
## 59	51	25.00
## 60	51	25.00
## 61	51	25.00
## 62	51	25.00
## 63	51	25.00
## 64	51	25.00
## 65	51	25.00
## 66	51	25.00
## 67	51	25.00
## 68	51	25.00
## 69	51	25.00
## 70	51	25.00
## 71	51	25.00
## 72	51	25.00
## 73	51	25.00
## 74	51	25.00
## 75	51	25.00
## 76	51	25.00
## 77	51	25.00
## 78	51	25.00
## 79	51	25.00
## 80	51	25.00
## 81	51	25.00
## 82	51	25.00
## 83	51	5.40
## 84	51	5.40
## 85	51	5.40
## 86	51	51.00
## 87	51	51.00
## 88	51	51.00
## 89	51	51.00
## 90	51	51.00

## 91	51	9.95
## 92	51	9.95

moderate

## SITE.. seedling SITE.NAME Transect Subplot Height..cm.

Substrate Small.Topo

## 1	4	6	LAKE	N/A		NA	
## 2	5	7	LAKE	A	14-16	20.5	
M	CC						
## 3	6	8	LAKE	A	2-4	44.0	
M	CC						
## 4	6	9	LAKE	A	14-16	15.0	
A	F						
## 5	6	10	LAKE	A	14-16	6.0	
A	CC						
## 6	6	11	LAKE	A	14-16	3.5	
A	F						
## 7	6	12	LAKE	A	16-18	39.0	
M	S						
## 8	6	13	LAKE	A	16-18	18.0	
M	F						
## 9	8	91	RAWAH	A	0-2	9.0	
M	S						
## 10	8	92	RAWAH	A	40-42	24.0	
L	F						
## 11	8	93	RAWAH	B	40-42	9.0	
A	F						
## 12	9	94	BLUE	N/A		NA	
## 13	10	95	BLUE	N/A		NA	
## 14	11	96	BLUE	A	20-22	29.0	A/
M	S						
## 15	11	97	BLUE	A	26-28	25.0	A/
M	CC						
## 16	12	98	BLUE	A	0-2	28.0	
M	S						
## 17	12	99	BLUE	A	0-2	16.0	
M	S						
## 18	12	100	BLUE	A	0-2	6.0	
M	S						
## 19	13	101	RES	N/A		NA	
## 20	14	102	RES	B	16-18	10.0	



M	CC						
## 21	15	103	RES	N/A		NA	
## 22	16	104	RES	N/A		NA	
## 23	17	105	RAWAH	B	40-42	6.0	
M	CC						
## 24	18	106	RAWAH	N/A		NA	
## 25	19	107	RAWAH	A	0-2	14.0	
A	CC						
## 26	19	108	RAWAH	A	0-2	1.5	
A	CC						
## 27	20	109	SNOW	A	2-4	39.0	A/
B	S						
## 28	20	110	SNOW	A	2-4	19.0	A/
B	S						
## 29	20	111	SNOW	A	2-4	3.0	A/
B	S						
## 30	20	112	SNOW	A	2-4	10.0	A/
B	F						
## 31	20	113	SNOW	A	2-4	7.0	A/
B	S						
## 32	20	114	SNOW	A	2-4	12.0	A/
B	F						
## 33	20	115	SNOW	A	2-4	18.0	A/
B	F						
## 34	20	116	SNOW	A	2-4	15.5	A/
B	F						
## 35	20	117	SNOW	A	2-4	20.0	A/
B	CC						
## 36	20	118	SNOW	A	2-4	22.0	A/
B	CV						
## 37	20	119	SNOW	A	4-6	6.0	
M	S						
## 38	20	120	SNOW	A	4-6	12.0	A/
B	S						
## 39	20	121	SNOW	A	4-6	7.0	A/
B	S						
## 40	20	122	SNOW	A	4-6	8.0	A/
B	S						
## 41	20	123	SNOW	A	4-6	9.0	A/
B	CV						
## 42	20	124	SNOW	A	4-6	9.5	

A	CV						
## 43	20	125	SNOW	A	4-6	11.0	
A	CV						
## 44	20	126	SNOW	A	4-6	11.0	
B	S						
## 45	20	127	SNOW	A	4-6	18.0	
B	CC						
## 46	20	128	SNOW	A	4-6	12.0	A/
B	S						
## 47	20	129	SNOW	A	4-6	9.0	
B	S						
## 48	20	130	SNOW	A	4-6	8.5	A/
B	S						
## 49	20	131	SNOW	A	8-10	22.0	
A	F						
## 50	20	132	SNOW	B	10-12	4.5	
B	CV						
## 51	20	133	SNOW	B	10-12	7.0	A/
B	F						
## 52	20	134	SNOW	B	10-12	15.0	B/
M	CV						
## 53	20	135	SNOW	B	12-14	27.5	
B	F						
## 54	20	136	SNOW	B	12-14	12.0	B/
M	F						
## 55	20	137	SNOW	B	14-16	17.0	L/
M	F						
## 56	20	138	SNOW	B	16-18	15.5	
A	CC						
## 57	20	139	SNOW	B	16-18	17.0	
A	F						
## 58	20	140	SNOW	B	16-18	6.5	
A	F						
## 59	20	141	SNOW	B	16-18	4.0	
A	F						
## 60	20	142	SNOW	B	18-20	20.5	
A	CC						
## 61	20	143	SNOW	B	18-20	18.5	A/
B	CC						
## 62	20	144	SNOW	B	18-20	5.5	
A	CC						
## 63	20	145	SNOW	B	18-20	11.5	

A	CC						
## 64	20	146	SNOW	B	18-20	11.0	
A	CC						
## 65	20	147	SNOW	B	18-20	8.0	
A	CC						
## 66	20	148	SNOW	B	18-20	13.5	
A	S						
## 67	20	149	SNOW	B	18-20	1.5	
A	CC						
## 68	20	150	SNOW	B	18-20	16.0	
A	S						
## 69	20	151	SNOW	B	18-20	22.5	
A	CC						
## 70	20	152	SNOW	B	18-20	12.5	
A	S						
## 71	20	153	SNOW	B	18-20	17.5	
A	CC						
## 72	20	154	SNOW	B	18-20	17.5	
A	CC						
## 73	20	155	SNOW	B	18-20	11.5	
A	S						
## 74	20	156	SNOW	B	18-20	7.5	
B	CV						
## 75	20	157	SNOW	B	18-20	12.0	
B	CV						
## 76	20	158	SNOW	B	18-20	23.5	
B	CC						
## 77	20	159	SNOW	B	18-20	18.5	A/
B	CC						
## 78	20	160	SNOW	B	18-20	9.5	
A	CC						
## 79	20	161	SNOW	B	18-20	13.5	
A	CV						
## 80	20	162	SNOW	B	18-20	18.0	
A	S						
## 81	20	163	SNOW	B	18-20	31.5	
A	CV						
## 82	20	164	SNOW	B	20-22	19.5	
M	S						
## 83	20	165	SNOW	B	20-22	22.0	
A	CV						
## 84	20	166	SNOW	B	20-22	18.5	

A	S						
## 85	20	167	SNOW	B	20-22	29.5	
A	CC						
## 86	20	168	SNOW	B	50-52	4.5	
A	CC						
## 87	21	169	LONG	A	24-26	23.5	
A	CC						
## 88	21	170	LONG	A	42-44	21.5	A/
L	F						
## 89	21	171	LONG	A	48-50	21.0	A/
B	CC						
## 90	21	172	LONG	A	48-50	5.0	A/
B	S						
## 91	21	173	LONG	A	48-50	10.0	
A	CC						
## 92	21	174	LONG	A	48-50	5.0	
B	CC						
## 93	21	175	LONG	A	48-50	14.5	A/
L	CC						
## 94	21	176	LONG	B	20-22	7.0	A/
L	CC						
## 95	36	350	CAM	A	6-8	28.7	
A	S						
## 96	36	351	CAM	A	8-10	9.9	
A	F						
## 97	36	352	CAM	A	8-10	18.8	
A	CC						
## 98	36	353	CAM	A	24-26	18.0	
A	CC						
## 99	36	354	CAM	A	30-32	4.9	
A	F						
## 100	36	355	CAM	A	30-32	4.1	A/
W	CV						
## 101	36	356	CAM	A	34-36	1.1	
A	F						
## 102	36	357	CAM	A	40-42	5.4	
M	CC						
## 103	36	358	CAM	A	42-44	5.1	
B	CC						
## 104	36	359	CAM	A	42-44	2.9	
B	CV						
## 105	36	360	CAM	A	42-44	9.9	

B	S							
## 106	36	361	CAM	A	42-44	13.2		
B	CC							
## 107	36	362	CAM	A	44-46	6.4	B/	
M	CC							
## 108	36	363	CAM	A	46-48	2.3		
M	CC							
## 109	36	364	CAM	A	48-50	18.1	B/	
M	CC							
## 110	36	365	CAM	A	48-50	13.1	B/	
M	CC							
## 111	36	366	CAM	A	48-50	1.4	B/	
M	CC							
## 112	36	367	CAM	A	48-50	8.7	B/	
M	CC							
## 113	36	368	CAM	A	48-50	8.5	B/	
M	CV							
## 114	36	369	CAM	B	34-36	6.0		
B	S							
## 115	36	370	CAM	B	34-36	6.6		
B	S							
## 116	36	371	CAM	B	34-36	4.8		
B	CC							
## 117	36	372	CAM	B	34-36	2.9		
B	CC							
## 118	36	373	CAM	B	34-36	13.8		
B	CV							
## 119	36	374	CAM	B	36-38	16.9		
B	CC							
## 120	36	375	CAM	B	36-38	13.0	B/	
L	CC							
## 121	36	376	CAM	B	36-38	10.5		
B	CC							
## 122	36	377	CAM	B	36-38	30.3	A/	
B	F							
## 123	36	378	CAM	B	36-38	29.6		
B	CV							
## 124	36	379	CAM	B	36-38	21.7		
B	F							
## 125	36	380	CAM	B	36-38	20.4		
A	CC							
## 126	36	381	CAM	B	36-38	9.6		

A	F						
## 127	36	382	CAM	B	36-38	7.9	
B	F						
## 128	36	383	CAM	B	36-38	5.5	
B	F						
## 129	36	384	CAM	B	36-38	13.3	
A	S						
## 130	36	385	CAM	B	36-38	3.4	
B	S						
## 131	36	386	CAM	B	36-38	3.6	
B	S						
## 132	36	387	CAM	B	40-42	18.6	
B	CC						
## 133	36	388	CAM	B	40-42	15.9	
B	CC						
## 134	36	389	CAM	B	40-42	11.5	
A	S						
## 135	36	390	CAM	B	38-40	3.7	
B	CC						
## 136	36	391	CAM	B	42-44	6.1	A/
B	CC						
## 137	36	392	CAM	B	42-44	12.4	
B	S						
## 138	36	393	CAM	B	42-44	11.0	
B	CC						
## 139	36	394	CAM	B	42-44	13.4	
B	CC						
## 140	36	395	CAM	B	42-44	10.8	
A	S						
## 141	36	396	CAM	B	42-44	18.2	A/
B	S						
## 142	36	397	CAM	B	42-44	14.6	
B	S						
## 143	36	398	CAM	B	42-44	15.1	A/
B	S						
## 144	36	399	CAM	B	42-44	4.4	
A	S						
## 145	36	400	CAM	B	42-44	11.0	
A	CC						
## 146	36	401	CAM	B	42-44	3.1	
B	S						
## 147	36	402	CAM	B	48-50	19.8	

A	CC					
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse
site.name						
## 1		NA	NA	NA	NA	NA
LAKE						
## 2	CC	0	0	51	0	0
LAKE						
## 3	F	0	0	51	0	0
LAKE						
## 4	F	1	0	51	0	1
LAKE						
## 5	F	1	0	51	0	0
LAKE						
## 6	F	1	0	51	0	0
LAKE						
## 7	S	1	0	51	0	1
LAKE						
## 8	F	0	0	51	0	0
LAKE						
## 9	S	1	1	51	0	0
RAWAH						
## 10	S	1	1	51	0	0
RAWAH						
## 11	S	1	0	51	0	0
RAWAH						
## 12		NA	NA	NA	NA	NA
BLUE						
## 13		NA	NA	NA	NA	NA
BLUE						
## 14	S	1	1	51	0	0
BLUE						
## 15	CV	1	1	51	0	0
BLUE						
## 16	S	1	0	51	0	0
BLUE						
## 17	S	1	0	51	0	0
BLUE						
## 18	S	1	0	51	0	0
BLUE						
## 19		NA	NA	NA	NA	NA
RES						
## 20	S	1	1	51	0	0

RES						
## 21		NA	NA	NA	NA	NA
RES						
## 22		NA	NA	NA	NA	NA
RES						
## 23	S	0	0	30	0	0
RAWAH						
## 24		NA	NA	NA	NA	NA
RAWAH						
## 25	F	1	0	51	0	0
RAWAH						
## 26	CC	1	0	51	0	0
RAWAH						
## 27	CC	1	1	51	0	0
SNOW						
## 28	CC	1	1	51	0	0
SNOW						
## 29	CC	1	1	51	0	0
SNOW						
## 30	CC	1	1	51	0	1
SNOW						
## 31	CC	1	1	51	0	1
SNOW						
## 32	CC	1	1	51	0	1
SNOW						
## 33	CC	1	1	51	0	1
SNOW						
## 34	CC	1	0	51	0	1
SNOW						
## 35	CC	1	0	51	0	0
SNOW						
## 36	CC	1	0	51	0	1
SNOW						
## 37	S	0	1	51	0	0
SNOW						
## 38	CC	0	0	51	0	1
SNOW						
## 39	CC	0	0	51	0	1
SNOW						
## 40	CC	0	0	51	0	1
SNOW						
## 41	CC	0	0	51	0	0



SNOW						
## 42	CC	0	0	51	0	1
SNOW						
## 43	CC	0	0	51	0	0
SNOW						
## 44	CC	0	0	51	0	1
SNOW						
## 45	CC	0	0	51	0	0
SNOW						
## 46	CC	0	0	51	0	1
SNOW						
## 47	CC	0	0	51	0	1
SNOW						
## 48	CC	0	0	51	0	1
SNOW						
## 49	CC	0	0	51	0	0
SNOW						
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SNOW						
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SNOW						
## 52	CC	1	1	51	0	0
SNOW						
## 53	CC	1	0	51	0	0
SNOW						
## 54	CC	1	1	51	0	1
SNOW						
## 55	F	0	0	51	0	0
SNOW						
## 56	CC	1	1	51	0	0
SNOW						
## 57	S	1	1	51	0	0
SNOW						
## 58	CC	1	0	51	0	0
SNOW						
## 59	CC	1	0	51	0	0
SNOW						
## 60	S	1	0	51	0	0
SNOW						
## 61	S	1	0	51	0	0
SNOW						
## 62	S	1	0	51	0	0

SNOW						
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SNOW						
## 64	S	0	0	51	0	1
SNOW						
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SNOW						
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SNOW						
## 67	S	0	0	51	0	0
SNOW						
## 68	S	0	0	51	0	0
SNOW						
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SNOW						
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SNOW						
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SNOW						
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SNOW						
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SNOW						
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SNOW						
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SNOW						
## 76	S	0	0	51	0	1
SNOW						
## 77	CC	0	0	51	0	1
SNOW						
## 78	F	1	1	51	0	1
SNOW						
## 79	S	1	0	51	0	1
SNOW						
## 80	S	0	0	51	0	1
SNOW						
## 81	S	1	0	51	0	1
SNOW						
## 82	S	0	0	51	0	1
SNOW						
## 83	S	0	0	51	0	1

SNOW						
## 84	S	1	0	51	0	1
SNOW						
## 85	S	1	0	51	0	1
SNOW						
## 86	CC	1	0	51	0	0
SNOW						
## 87	CC	1	1	51	0	0
LONG						
## 88	CC	0	1	51	0	1
LONG						
## 89	F	1	0	51	0	1
LONG						
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LONG						
## 91	CC	1	0	51	0	0
LONG						
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LONG						
## 93	F	1	0	51	0	0
LONG						
## 94	CC	1	1	40	0	0
LONG						
## 95	S	1	0	51	0	0
CAM						
## 96	S	1	0	51	0	0
CAM						
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## 101	CC	0	0	51	0	0
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## 102	S	0	1	51	0	0
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## 103	F	0	1	51	0	0
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## 104	F	0	1	51	0	0

CAM						
## 105	S	0	0	51	0	0
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## 106	S	0	0	51	0	0
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## 107	CC	1	1	51	0	0
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## 109	CC	0	0	51	0	1
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## 111	CC	1	0	51	0	0
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## 112	S	0	0	51	0	0
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## 114	CC	1	0	51	0	0
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## 127	CC	1	0	51	0	0
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CAM						
## 136	S	0	1	51	0	0
CAM						
## 137	S	1	0	51	0	0
CAM						
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CAM						
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CAM						
## 140	CV	1	0	51	0	0
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## 141	CC	1	0	51	0	0
CAM						
## 142	CC	1	0	51	0	0
CAM						
## 143	S	1	0	51	0	1
CAM						
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CAM						
## 145	CC	1	0	51	0	0
CAM						
## 146	S	1	0	51	0	0

CAM						
## 147	CC	1	0	51	0	0
CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
Elevation	Slope					
## 1	4	NA	LAKE	427569.0	4494233	
2850	-7					
## 2	5	20.5	LAKE	427646.0	4494147	
2825	-5					
## 3	6	44.0	LAKE	427647.0	4493988	
2835	-6					
## 4	6	15.0	LAKE	427647.0	4493988	
2835	-6					
## 5	6	6.0	LAKE	427647.0	4493988	
2835	-6					
## 6	6	3.5	LAKE	427647.0	4493988	
2835	-6					
## 7	6	39.0	LAKE	427647.0	4493988	
2835	-6					
## 8	6	18.0	LAKE	427647.0	4493988	
2835	-6					
## 9	8	9.0	RAWAH	426956.0	4499540	
2724	-9					
## 10	8	24.0	RAWAH	426956.0	4499540	
2724	-9					
## 11	8	9.0	RAWAH	426956.0	4499540	
2724	-9					
## 12	9	NA	BLUE	427716.0	4493460	
2865	-10					
## 13	10	NA	BLUE	427530.0	4493428	
2898	-8					
## 14	11	29.0	BLUE	427118.0	4493949	
2901	-10					
## 15	11	25.0	BLUE	427118.0	4493949	
2901	-10					
## 16	12	28.0	BLUE	427290.0	4493596	
2926	-11					
## 17	12	16.0	BLUE	427290.0	4493596	
2926	-11					
## 18	12	6.0	BLUE	427290.0	4493596	
2926	-11					
## 19	13	NA	RES	425878.0	4490676	

3051	-11					
## 20		14	10.0	RES	426126.0	4490180
3040	-7					
## 21		15	NA	RES	426491.0	4490988
3025	-8					
## 22		16	NA	RES	426633.0	4490741
3012	-3					
## 23		17	6.0	RAWAH	426806.8	4499771
2715	-6					
## 24		18	NA	RAWAH	427132.1	4499400
2739	-4					
## 25		19	14.0	RAWAH	427155.5	4498773
2751	-10					
## 26		19	1.5	RAWAH	427155.5	4498773
2751	-10					
## 27		20	39.0	SNOW	426996.6	4492304
2959	-10					
## 28		20	19.0	SNOW	426996.6	4492304
2959	-10					
## 29		20	3.0	SNOW	426996.6	4492304
2959	-10					
## 30		20	10.0	SNOW	426996.6	4492304
2959	-10					
## 31		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 32		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 33		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 34		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 35		20	20.0	SNOW	426996.6	4492304
2959	-10					
## 36		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 37		20	6.0	SNOW	426996.6	4492304
2959	-10					
## 38		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 39		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 40		20	8.0	SNOW	426996.6	4492304

2959	-10					
## 41		20	9.0	SNOW	426996.6	4492304
2959	-10					
## 42		20	9.5	SNOW	426996.6	4492304
2959	-10					
## 43		20	11.0	SNOW	426996.6	4492304
2959	-10					
## 44		20	11.0	SNOW	426996.6	4492304
2959	-10					
## 45		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 46		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 47		20	9.0	SNOW	426996.6	4492304
2959	-10					
## 48		20	8.5	SNOW	426996.6	4492304
2959	-10					
## 49		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 50		20	4.5	SNOW	426996.6	4492304
2959	-10					
## 51		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 52		20	15.0	SNOW	426996.6	4492304
2959	-10					
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2959	-10					
## 54		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 55		20	17.0	SNOW	426996.6	4492304
2959	-10					
## 56		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 57		20	17.0	SNOW	426996.6	4492304
2959	-10					
## 58		20	6.5	SNOW	426996.6	4492304
2959	-10					
## 59		20	4.0	SNOW	426996.6	4492304
2959	-10					
## 60		20	20.5	SNOW	426996.6	4492304
2959	-10					
## 61		20	18.5	SNOW	426996.6	4492304



2959	-10					
## 62		20	5.5	SNOW	426996.6	4492304
2959	-10					
## 63		20	11.5	SNOW	426996.6	4492304
2959	-10					
## 64		20	11.0	SNOW	426996.6	4492304
2959	-10					
## 65		20	8.0	SNOW	426996.6	4492304
2959	-10					
## 66		20	13.5	SNOW	426996.6	4492304
2959	-10					
## 67		20	1.5	SNOW	426996.6	4492304
2959	-10					
## 68		20	16.0	SNOW	426996.6	4492304
2959	-10					
## 69		20	22.5	SNOW	426996.6	4492304
2959	-10					
## 70		20	12.5	SNOW	426996.6	4492304
2959	-10					
## 71		20	17.5	SNOW	426996.6	4492304
2959	-10					
## 72		20	17.5	SNOW	426996.6	4492304
2959	-10					
## 73		20	11.5	SNOW	426996.6	4492304
2959	-10					
## 74		20	7.5	SNOW	426996.6	4492304
2959	-10					
## 75		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 76		20	23.5	SNOW	426996.6	4492304
2959	-10					
## 77		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 78		20	9.5	SNOW	426996.6	4492304
2959	-10					
## 79		20	13.5	SNOW	426996.6	4492304
2959	-10					
## 80		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 81		20	31.5	SNOW	426996.6	4492304
2959	-10					
## 82		20	19.5	SNOW	426996.6	4492304

2959	-10					
## 83		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 84		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 85		20	29.5	SNOW	426996.6	4492304
2959	-10					
## 86		20	4.5	SNOW	426996.6	4492304
2959	-10					
## 87		21	23.5	LONG	429815.3	4490511
3029	-1					
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3029	-1					
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3029	-1					
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3029	-1					
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3029	-1					
## 92		21	5.0	LONG	429815.3	4490511
3029	-1					
## 93		21	14.5	LONG	429815.3	4490511
3029	-1					
## 94		21	7.0	LONG	429815.3	4490511
3029	-1					
## 95		36	28.7	CAM	434021.0	4485004
3020	-10					
## 96		36	9.9	CAM	434021.0	4485004
3020	-10					
## 97		36	18.8	CAM	434021.0	4485004
3020	-10					
## 98		36	18.0	CAM	434021.0	4485004
3020	-10					
## 99		36	4.9	CAM	434021.0	4485004
3020	-10					
## 100		36	4.1	CAM	434021.0	4485004
3020	-10					
## 101		36	1.1	CAM	434021.0	4485004
3020	-10					
## 102		36	5.4	CAM	434021.0	4485004
3020	-10					
## 103		36	5.1	CAM	434021.0	4485004

3020	-10					
## 104		36	2.9	CAM	434021.0	4485004
3020	-10					
## 105		36	9.9	CAM	434021.0	4485004
3020	-10					
## 106		36	13.2	CAM	434021.0	4485004
3020	-10					
## 107		36	6.4	CAM	434021.0	4485004
3020	-10					
## 108		36	2.3	CAM	434021.0	4485004
3020	-10					
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## 120		36	13.0	CAM	434021.0	4485004
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## 122		36	30.3	CAM	434021.0	4485004
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## 123		36	29.6	CAM	434021.0	4485004
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## 126		36	9.6	CAM	434021.0	4485004
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## 135		36	3.7	CAM	434021.0	4485004
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## 138		36	11.0	CAM	434021.0	4485004
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## 142		36	14.6	CAM	434021.0	4485004
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3020	-10					
## 145		36	11.0	CAM	434021.0	4485004

3020	-10					
## 146		36	3.1	CAM	434021.0	4485004
3020	-10					
## 147		36	19.8	CAM	434021.0	4485004
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##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
Transect.B						
## 1	84		CV			NA
NA						
## 2	75		CC			75
165						
## 3	173		CC			18
108						
## 4	173		CC			18
108						
## 5	173		CC			18
108						
## 6	173		CC			18
108						
## 7	173		CC			18
108						
## 8	173		CC			18
108						
## 9	340		F			60
330						
## 10	340		F			60
330						
## 11	340		F			60
330						
## 12	66		CV			66
156						
## 13	330		CC			108
198						
## 14	92		F			290
20						
## 15	92		F			290
20						
## 16	32		F			250
159						
## 17	32		F			250
159						
## 18	32		F			250

159			
## 19	338	F	330
198			
## 20	342	F	276
186			
## 21	340	CC	120
20			
## 22	58	F	358
260			
## 23	108	F/S	142
228			
## 24	12	CV	106
22			
## 25	84	F/S	356
264			
## 26	84	F/S	356
264			
## 27	12	CV	228
312			
## 28	12	CV	228
312			
## 29	12	CV	228
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## 30	12	CV	228
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## 39	12	CV	228

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## 43	12	CV		228
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## 86	12	CV	228
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## 87	298	CC	288
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## 88	298	CC	288
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## 92	298	CC	288
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## 93	298	CC	288
210			
## 94	298	CC	288
210			
## 95	216	F/S	166
74			
## 96	216	F/S	166
74			
## 97	216	F/S	166
74			
## 98	216	F/S	166
74			
## 99	216	F/S	166
74			
## 100	216	F/S	166
74			
## 101	216	F/S	166
74			
## 102	216	F/S	166

74				
##	103	216	F/S	166
74				
##	104	216	F/S	166
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##	123	216	F/S	166

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##	124	216	F/S	166
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##	126	216	F/S	166
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##	141	216	F/S	166
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##	142	216	F/S	166
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##	143	216	F/S	166
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##	144	216	F/S	166

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## 145	216	F/S	166
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## 146	216	F/S	166
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## 147	216	F/S	166
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##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51	51	
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## 147	51	51

high

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.
Substrate	Small.Topo				
## 1	22	177	MONTY	B	10-12
					22.5

A	S						
## 2	23	178	MONTY	A	32-34	9.5	
A	S						
## 3	23	179	MONTY	A	32-34	9.0	
A	CC						
## 4	23	180	MONTY	A	32-34	7.9	
A	CC						
## 5	23	181	MONTY	A	32-34	8.8	
A	CV						
## 6	23	182	MONTY	A	32-34	8.0	
A	CV						
## 7	23	183	MONTY	A	32-34	15.5	
A	CV						
## 8	23	184	MONTY	A	32-34	6.0	
A	CV						
## 9	23	185	MONTY	A	32-34	14.0	
A	CV						
## 10	23	186	MONTY	A	34-36	8.0	A/
L	F						
## 11	23	187	MONTY	A	34-36	1.0	
A	S						
## 12	23	188	MONTY	A	34-36	5.5	
A	CC						
## 13	23	189	MONTY	A	34-36	6.9	
A	CC						
## 14	23	190	MONTY	A	34-36	1.1	
A	CC						
## 15	23	191	MONTY	A	34-36	1.2	
A	S						
## 16	23	192	MONTY	A	34-36	1.6	
A	S						
## 17	23	193	MONTY	A	34-36	4.3	A/
L	CV						
## 18	23	194	MONTY	A	34-36	4.6	A/
L	CV						
## 19	23	195	MONTY	A	34-36	5.0	A/
L	CV						
## 20	23	196	MONTY	A	34-36	4.0	
A	CC						
## 21	23	197	MONTY	A	34-36	4.0	
A	CV						
## 22	23	198	MONTY	A	36-38	5.6	



A	CV						
## 23	23	199	MONTY	A	36-38	7.2	
A	CV						
## 24	23	200	MONTY	A	36-38	5.7	
A	S						
## 25	23	201	MONTY	A	36-38	7.4	
A	CV						
## 26	23	202	MONTY	A	36-38	2.1	
A	F						
## 27	23	203	MONTY	A	36-38	3.3	
A	S						
## 28	23	204	MONTY	A	36-38	4.8	
A	CC						
## 29	23	205	MONTY	A	36-38	5.0	
A	CC						
## 30	23	206	MONTY	A	38-40	7.4	
A	S						
## 31	24	207	MONTY	A	22-24	4.8	
A	F						
## 32	24	208	MONTY	B	16-18	6.1	A/
L	CC						
## 33	25	209	LONG	A	0-2	4.2	
A	F						
## 34	25	210	LONG	A	2-4	4.5	
L	F						
## 35	25	211	LONG	A	2-4	6.8	
L	CC						
## 36	25	212	LONG	A	4-6	8.1	A/
L	CC						
## 37	25	213	LONG	A	6-8	6.1	
B	CV						
## 38	25	214	LONG	A	6-8	6.0	
B	CC						
## 39	25	215	LONG	A	6-8	2.6	
B	CC						
## 40	25	216	LONG	A	6-8	3.0	
B	CC						
## 41	25	217	LONG	A	6-8	5.0	
B	CC						
## 42	25	218	LONG	A	6-8	1.5	
B	F						
## 43	25	219	LONG	A	6-8	3.9	

B	F						
## 44	25	220	LONG	A	6-8	5.5	
B	F						
## 45	25	221	LONG	A	6-8	2.6	
B	F						
## 46	25	222	LONG	A	6-8	9.6	
B	CC						
## 47	25	223	LONG	A	6-8	7.9	
B	CC						
## 48	25	224	LONG	A	6-8	3.0	
B	CV						
## 49	25	225	LONG	A	6-8	8.6	
B	CC						
## 50	25	226	LONG	A	6-8	5.3	
B	CV						
## 51	25	227	LONG	A	6-8	5.0	
B	CC						
## 52	25	228	LONG	A	6-8	10.2	
B	CV						
## 53	25	229	LONG	A	6-8	3.1	
B	CC						
## 54	25	230	LONG	A	6-8	5.1	
B	S						
## 55	25	231	LONG	A	6-8	4.1	
B	S						
## 56	25	232	LONG	A	8-10	7.1	
M	CC						
## 57	25	233	LONG	A	8-10	13.6	
M	S						
## 58	25	234	LONG	A	8-10	7.9	A/
B	CC						
## 59	25	235	LONG	A	8-10	4.6	
B	CV						
## 60	25	236	LONG	A	8-10	5.8	
B	CC						
## 61	25	237	LONG	A	8-10	7.1	
M	CV						
## 62	25	238	LONG	A	8-10	3.2	
M	CC						
## 63	25	239	LONG	A	10-12	7.0	B/
M	F						
## 64	25	240	LONG	A	12-14	11.0	B/

M	F						
## 65	25	241	LONG	A	12-14	11.9	A/
B	S						
## 66	25	242	LONG	A	12-14	6.8	A/
B	S						
## 67	25	243	LONG	A	12-14	2.0	
A	CC						
## 68	25	244	LONG	A	12-14	5.0	
B	S						
## 69	25	245	LONG	A	12-14	15.6	
B	F						
## 70	25	246	LONG	A	12-14	24.9	
B	S						
## 71	25	247	LONG	A	12-14	3.9	
B	S						
## 72	25	248	LONG	A	12-14	4.0	
B	CC						
## 73	25	249	LONG	A	12-14	8.4	
B	CC						
## 74	25	250	LONG	A	12-14	3.9	
B	CC						
## 75	25	251	LONG	A	12-14	3.5	
M	CC						
## 76	25	252	LONG	A	12-14	9.9	
M	S						
## 77	25	253	LONG	A	14-16	3.5	
A	F						
## 78	25	254	LONG	A	14-16	2.9	
A	F						
## 79	25	255	LONG	A	14-16	7.5	
B	S						
## 80	25	256	LONG	A	16-18	8.8	
M	F						
## 81	25	257	LONG	A	16-18	9.0	
B	S						
## 82	25	258	LONG	A	16-18	6.5	
B	F						
## 83	25	259	LONG	A	16-18	12.0	
B	S						
## 84	25	260	LONG	A	16-18	10.0	B/
M	S						
## 85	25	261	LONG	A	16-18	4.0	A/

B	CC							
## 86	25	262	LONG	A	16-18	4.0	A/	
B	CC							
## 87	25	263	LONG	A	16-18	3.0	A/	
B	S							
## 88	25	264	LONG	A	16-18	2.0	A/	
B	S							
## 89	25	265	LONG	A	20-22	6.5		
A	S							
## 90	25	266	LONG	A	24-26	4.0		
M	F							
## 91	25	267	LONG	B	36-38	7.0		
M	S							
## 92	25	268	LONG	B	36-38	4.0	A/	
L	F							
## 93	25	269	LONG	B	36-38	9.5		
M	S							
## 94	26	270	LONG	A	16-18	18.1	B/	
M	S							
## 95	26	271	LONG	A	24-26	11.4		
A	CC							
## 96	26	272	LONG	A	24-26	13.2		
A	S							
## 97	26	273	LONG	A	26-28	4.7		
A	F							
## 98	26	274	LONG	A	26-28	5.7		
B	CV							
## 99	26	275	LONG	A	26-28	15.9		
A	F							
## 100	26	276	LONG	A	26-28	7.1		
A	F							
## 101	26	277	LONG	A	30-32	9.4	A/	
L	F							
## 102	26	278	LONG	A	36-38	1.6		
A	F							
## 103	26	279	LONG	A	36-38	15.3		
A	F							
## 104	26	280	LONG	A	36-38	1.1		
A	S							
## 105	26	281	LONG	A	40-42	7.4		
A	F							
## 106	26	282	LONG	B	0-2	16.5		

A	S							
## 107	26	283	LONG	B	40-42	23.0	A/	
B	CC							
## 108	26	284	LONG	B	40-42	12.5		
A	CC							
## 109	26	285	LONG	B	40-42	5.0		
A	CC							
## 110	27	286	LONG	A	0-2	5.5	A/	
B	F							
## 111	27	287	LONG	A	0-2	20.1		
B	S							
## 112	27	288	LONG	A	0-2	5.6		
A	F							
## 113	27	289	LONG	A	0-2	6.5		
A	F							
## 114	27	290	LONG	B	0-2	19.8		
A	F							
## 115	27	291	LONG	B	0-2	9.0	A/	
B	S							
## 116	27	292	LONG	B	0-2	10.2	A/	
B	CC							
## 117	27	293	LONG	B	0-2	22.4		
A	S							
## 118	27	294	LONG	B	0-2	4.4		
B	S							
## 119	27	295	LONG	B	0-2	14.9		
B	CV							
## 120	27	296	LONG	B	0-2	5.1		
B	S							
## 121	27	297	LONG	B	32-34	4.6		
A	S							
## 122	27	298	LONG	B	34-36	15.5		
A	S							
## 123	27	299	LONG	B	34-36	2.0		
A	F							
## 124	27	300	LONG	B	34-36	1.0		
A	F							
## 125	27	301	LONG	B	34-36	0.5		
A	F							
## 126	34	312	CAM	A	14-16	15.0		
A	S							
## 127	34	313	CAM	A	18-20	1.1		

M	CC						
## 128	34	314	CAM	A	20-22	0.9	
A	CC						
## 129	34	315	CAM	A	30-32	0.5	
A	CC						
## 130	34	316	CAM	A	30-32	13.1	
A	CC						
## 131	34	317	CAM	A	30-32	16.3	
A	CC						
## 132	34	318	CAM	A	30-32	34.9	
A	CC						
## 133	34	319	CAM	A	32-34	1.2	
A	CV						
## 134	34	320	CAM	A	34-36	4.0	
A	S						
## 135	34	321	CAM	A	34-36	26.7	
A	CC						
## 136	34	322	CAM	A	36-38	2.2	
A	CC						
## 137	34	323	CAM	A	40-42	2.1	
A	CC						
## 138	34	324	CAM	A	40-42	3.3	
A	CC						
## 139	34	325	CAM	A	40-42	4.8	
A	CC						
## 140	34	326	CAM	A	40-42	4.7	A/
L	CC						
## 141	34	327	CAM	A	42-44	4.3	A/
L	CC						
## 142	34	328	CAM	A	42-44	1.3	A/
L	CC						
## 143	34	329	CAM	A	42-44	1.5	
A	F						
## 144	34	330	CAM	A	42-44	4.4	
A	CC						
## 145	34	331	CAM	A	44-46	6.1	
A	S						
## 146	34	332	CAM	A	46-48	2.4	A/
L	CC						
## 147	34	333	CAM	A	48-50	58.4	
A	F						
## 148	34	334	CAM	A	48-50	0.8	A/

L	CC							
## 149	34	335	CAM	B	2-4	11.1		
A	F							
## 150	34	336	CAM	B	10-12	2.8		
A	F							
## 151	34	337	CAM	B	12-14	30.5	A/	
L	CV							
## 152	34	338	CAM	B	14-16	1.6		
A	CC							
## 153	34	339	CAM	B	20-22	3.7		
A	CC							
## 154	34	340	CAM	B	38-40	1.5	A/	
L	CC							
## 155	34	341	CAM	B	40-42	3.4		
A	S							
## 156	35	342	CAM	A	14-16	31.2		
A	CC							
## 157	35	343	CAM	B	2-4	16.4		
A	CC							
## 158	35	344	CAM	B	4-6	4.6		
A	F							
## 159	35	345	CAM	B	4-6	24.8	A/	
B	CV							
## 160	35	346	CAM	B	14-16	4.4	B/	
M	CC							
## 161	35	347	CAM	B	14-16	10.4	A/	
B	CC							
## 162	35	348	CAM	B	20-22	9.7		
A	F							
## 163	35	349	CAM	B	48-50	3.5	B/	
M	F							
## 164	37	403	CAM	N/A		NA		
## 165	38	404	CAM	A	0-2	3.2		
B	F							
## 166	38	405	CAM	A	0-2	18.6	A/	
B	CV							
## 167	38	406	CAM	A	4-6	4.1		
B	CC							
## 168	38	407	CAM	A	4-6	4.9		
B	CC							
## 169	38	408	CAM	A	4-6	7.9		

B	S						
## 170	38	409	CAM	A	4-6	4.5	
B	F						
## 171	38	410	CAM	A	4-6	4.7	
B	S						
## 172	38	411	CAM	A	4-6	17.1	
B	S						
## 173	38	412	CAM	A	4-6	9.1	
B	CC						
## 174	38	413	CAM	A	4-6	3.5	
B	CC						
## 175	38	414	CAM	A	10-12	10.4	
B	CC						
## 176	38	415	CAM	A	10-12	6.3	
B	S						
## 177	38	416	CAM	A	10-12	11.7	A/
B	F						
## 178	38	417	CAM	A	10-12	10.3	
B	S						
## 179	38	418	CAM	A	10-12	5.2	
B	S						
## 180	38	419	CAM	A	12-14	3.8	
B	CC						
## 181	38	420	CAM	A	12-14	4.6	
B	S						
## 182	38	421	CAM	A	12-14	5.5	
B	CV						
## 183	38	422	CAM	A	12-14	6.2	
B	S						
## 184	38	423	CAM	A	12-14	7.6	
B	CC						
## 185	38	424	CAM	A	12-14	5.2	
B	CC						
## 186	38	425	CAM	A	12-14	7.5	A/
B	F						
## 187	38	426	CAM	A	12-14	4.4	
B	F						
## 188	38	427	CAM	A	14-16	22.6	
B	C						
## 189	38	428	CAM	A	14-16	4.7	
B	CV						
## 190	38	429	CAM	A	16-18	8.4	



B	CC						
## 191	38	430	CAM	A	16-18	18.3	
B	CC						
## 192	38	431	CAM	A	16-18	6.1	
B	CC						
## 193	38	432	CAM	A	16-18	4.2	
B	CC						
## 194	38	433	CAM	A	16-18	10.5	
B	S						
## 195	38	434	CAM	A	16-18	8.2	
B	CC						
## 196	38	435	CAM	A	16-18	8.1	
B	F						
## 197	38	436	CAM	A	16-18	5.3	
B	S						
## 198	38	437	CAM	A	16-18	5.1	
B	F						
## 199	38	438	CAM	A	16-18	5.2	
B	S						
## 200	38	439	CAM	A	20-22	45.7	
B	S						
## 201	38	440	CAM	A	20-22	14.6	
B	F						
## 202	38	441	CAM	A	20-22	3.6	
B	CC						
## 203	38	442	CAM	A	20-22	7.2	
B	CC						
## 204	38	443	CAM	A	20-22	5.2	
B	S						
## 205	38	444	CAM	A	22-24	15.0	
B	CC						
## 206	38	445	CAM	A	22-24	12.0	
B	S						
## 207	38	446	CAM	A	22-24	9.6	
B	S						
## 208	38	447	CAM	A	22-24	9.4	A/
B	S						
## 209	38	448	CAM	A	22-24	8.3	
A	S						
## 210	38	449	CAM	A	22-24	4.2	
B	CC						
## 211	38	450	CAM	A	22-24	3.1	

A	CC							
## 212	38	451	CAM	A	22-24	8.1	A/	
B	S							
## 213	38	452	CAM	A	22-24	7.5		
B	CC							
## 214	38	453	CAM	A	22-24	2.0	A/	
B	S							
## 215	38	454	CAM	A	22-24	9.6		
A	CC							
## 216	38	455	CAM	A	26-28	1.9		
A	CV							
## 217	38	456	CAM	A	26-28	26.2		
A	S							
## 218	38	457	CAM	A	32-34	9.6		
B	CV							
## 219	38	458	CAM	A	32-34	10.4		
B	F							
## 220	38	459	CAM	A	32-34	19.1		
B	CV							
## 221	38	460	CAM	A	32-34	8.2		
B	S							
## 222	38	461	CAM	A	32-34	10.6		
B	S							
## 223	38	462	CAM	A	32-34	9.9		
B	S							
## 224	38	463	CAM	A	32-34	2.2		
B	F							
## 225	38	464	CAM	A	32-34	3.0		
B	S							
## 226	38	465	CAM	A	32-34	6.5		
B	CC							
## 227	38	466	CAM	A	32-34	11.4		
B	S							
## 228	38	467	CAM	A	32-34	6.3		
B	CV							
## 229	38	468	CAM	A	34-36	9.8		
B	CC							
## 230	38	469	CAM	A	34-36	15.0		
B	F							
## 231	38	470	CAM	A	34-36	7.5		
B	CC							
## 232	38	471	CAM	A	34-36	2.9		

B	F					
## 233	38	472	CAM	A	34-36	16.9
B	CC					
## 234	38	473	CAM	A	34-36	13.0
B	S					
## 235	38	474	CAM	A	34-36	15.0
B	CC					
## 236	38	475	CAM	A	34-36	12.2
B	S					
## 237	38	476	CAM	A	34-36	11.5
B	F					
## 238	38	477	CAM	A	34-36	12.8
B	F					
## 239	38	478	CAM	A	34-36	17.6
B	F					
## 240	38	479	CAM	A	34-36	8.3
B	F					
## 241	38	480	CAM	A	34-36	3.8
B	F					
## 242	38	481	CAM	A	34-36	16.0
B	CC					
## 243	38	482	CAM	A	36-38	18.4
B	S					
## 244	38	483	CAM	A	42-44	4.6
B	CC					
## 245	38	484	CAM	A	48-50	6.2
B	F					
## 246	38	485	CAM	A	48-50	9.5
B	F					
## 247	38	486	CAM	A	48-50	3.2
B	F					
## 248	38	487	CAM	A	48-50	5.1
B	CC					
## 249	38	488	CAM	A	48-50	4.0
B	CC					
## 250	38	489	CAM	A	48-50	6.9
B	S					
## 251	38	490	CAM	B	4-6	10.4
A	F					
## 252	38	491	CAM	B	4-6	6.7
A	S					
## 253	38	492	CAM	B	4-6	14.7

B	S						
## 254	38	493	CAM	B	4-6	17.9	
A	CC						
## 255	38	494	CAM	B	6-8	7.1	
A	CC						
## 256	38	495	CAM	B	18-20	16.0	
L	S						
## 257	38	496	CAM	B	20-22	8.5	
B	S						
## 258	38	497	CAM	B	20-22	11.5	
B	S						
## 259	38	498	CAM	B	20-22	7.9	
B	F						
## 260	38	499	CAM	B	20-22	10.3	
B	S						
## 261	38	500	CAM	B	20-22	10.5	
B	F						
## 262	38	501	CAM	B	20-22	7.3	
B	CC						
## 263	38	502	CAM	B	20-22	10.8	
B	S						
## 264	38	503	CAM	B	20-22	11.7	
B	S						
## 265	38	504	CAM	B	20-22	10.0	
B	S						
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A	F						
## 267	38	506	CAM	B	22-24	2.9	
B	F						
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B	S						
## 269	38	508	CAM	B	28-30	19.7	
B	F						
## 270	38	509	CAM	B	28-30	6.9	
B	S						
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B	F						
## 272	38	511	CAM	B	30-32	1.0	
B	F						
## 273	38	512	CAM	B	30-32	0.5	
B	F						
## 274	38	513	CAM	B	28-30	14.6	A/

B	S						
## 275	38	514	CAM	B	30-32	4.4	A/
B	F						
## 276	38	515	CAM	B	30-32	1.5	
B	F						
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B	CC						
## 278	38	517	CAM	B	34-36	14.3	
B	CC						
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B	S						
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B	CV						
## 281	38	520	CAM	B	34-36	6.8	
B	F						
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B	S						
## 283	38	522	CAM	B	34-36	22.8	
B	S						
## 284	38	523	CAM	B	34-36	15.0	
B	S						
## 285	38	524	CAM	B	34-36	13.9	
B	F						
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B	F						
## 287	38	526	CAM	B	36-38	6.9	
B	F						
## 288	38	527	CAM	B	36-38	6.5	
B	S						
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B	S						
## 290	38	529	CAM	B	38-40	11.8	
B	S						
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B	S						
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B	S						
## 293	38	532	CAM	B	38-40	6.4	
B	CC						
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B	CC						
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B	F					
## 296	38	535	CAM	B	40-42	8.8
B	F					
## 297	38	536	CAM	B	40-42	9.0
B	F					
## 298	38	537	CAM	B	40-42	13.6
B	S					
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B	F					
## 300	38	539	CAM	B	40-42	8.2
B	F					
## 301	38	540	CAM	B	40-42	3.1
B	F					
## 302	38	541	CAM	B	42-44	8.1
B	CV					
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B	F					
## 304	38	543	CAM	B	42-44	6.1
B	CC					
## 305	38	544	CAM	B	42-44	4.9
B	F					
## 306	38	545	CAM	B	42-44	11.5
B	CC					
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B	F					
## 308	38	547	CAM	B	42-44	9.4
B	F					
## 309	38	548	CAM	B	42-44	3.7
B	CC					
## 310	38	549	CAM	B	42-44	8.0
B	S					
## 311	38	550	CAM	B	42-44	7.6
B	S					
## 312	38	551	CAM	B	42-44	23.2
B	S					
## 313	38	552	CAM	B	42-44	22.5
B	S					
## 314	38	553	CAM	B	44-46	3.9
B	CC					
## 315	38	554	CAM	B	44-46	7.0
B	CC					
## 316	38	555	CAM	B	44-46	5.1

B	CC						
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B	CC						
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B	S						
## 319	38	558	CAM	B	50-52	11.8	A/
B	CC						
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A	CC						
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B	S						
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A	CC						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
Elevation	Slope					
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Transect.B						
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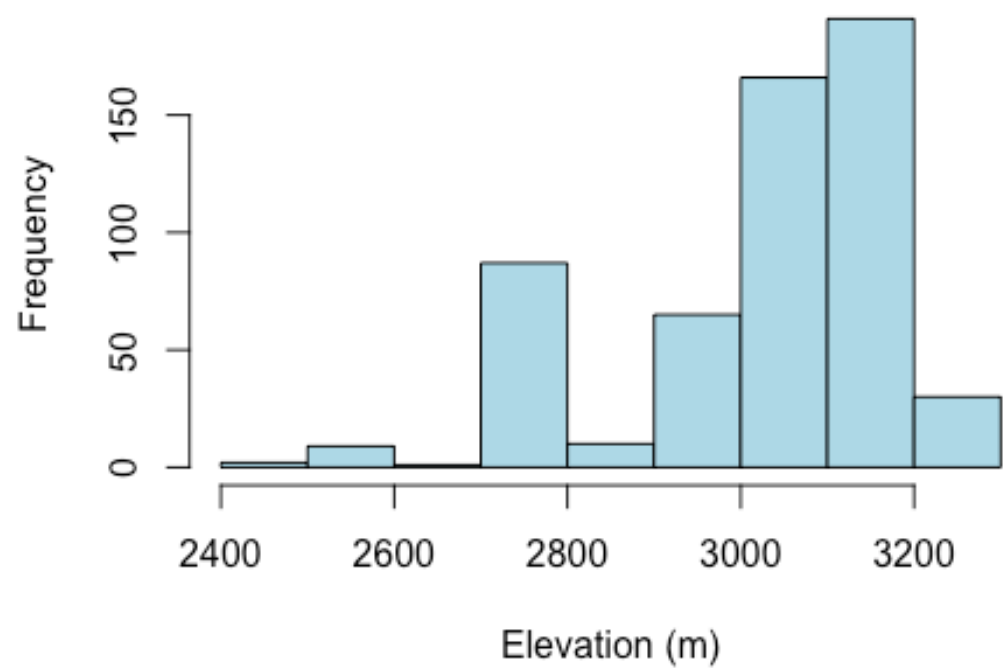
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```
hist(compiled$Elevation, breaks = 10, col = "light blue", main =  
"Elevation range of seedlings across all sites", xlab = "Elevation  
(m)", ylab = "Frequency")
```

Elevation range of seedlings across all sites



#browse

and CWD

#by large CWD  
Lcwdp

##	SITE.. seedling		SITE.NAME	Transect	Subplot	Height..cm.	
	Substrate	Small.Topo					
## 1	6	9	LAKE	A	14-16	15.0	
A	F						
## 2	6	10	LAKE	A	14-16	6.0	
A	CC						
## 3	6	11	LAKE	A	14-16	3.5	
A	F						
## 4	6	12	LAKE	A	16-18	39.0	
M	S						
## 5	7	28	RAWAH	A	16-18	21.0	A/
M	F						

## 6	7	40	RAWAH	B	34-36	23.0	
A	S						
## 7	7	41	RAWAH	B	34-36	13.0	
A	CV						
## 8	7	42	RAWAH	B	34-36	29.0	
A	CV						
## 9	7	44	RAWAH	B	36-38	14.0	
A	F						
## 10	7	45	RAWAH	B	36-38	20.0	
A	F						
## 11	7	46	RAWAH	B	38-40	26.0	
M	F						
## 12	7	49	RAWAH	B	40-42	26.0	
A	CC						
## 13	7	52	RAWAH	B	42-44	18.0	B/
M	CC						
## 14	7	53	RAWAH	B	42-44	17.0	B/
M	CC						
## 15	7	54	RAWAH	B	42-44	18.0	B/
M	CC						
## 16	7	55	RAWAH	B	42-44	15.0	B/
M	CC						
## 17	7	56	RAWAH	B	42-44	25.0	B/
M	CC						
## 18	7	57	RAWAH	B	42-44	39.0	B/
M	CC						
## 19	7	58	RAWAH	B	42-44	28.0	B/
M	CC						
## 20	7	59	RAWAH	B	42-44	35.0	
M	CC						
## 21	7	63	RAWAH	B	42-44	30.0	
W	S						
## 22	7	64	RAWAH	B	42-44	30.0	
W	S						
## 23	7	65	RAWAH	B	42-44	39.0	
W	S						
## 24	7	66	RAWAH	B	42-44	25.0	B/
M	CC						
## 25	7	68	RAWAH	B	42-44	25.0	
W	F						
## 26	7	76	RAWAH	B	44-46	34.0	B/
M	S						

## 27	7	77	RAWAH	B	44-46	60.0	B/
M	S						
## 28	7	78	RAWAH	B	44-46	45.0	B/
M	CC						
## 29	7	80	RAWAH	B	46-48	26.0	
M	F						
## 30	7	82	RAWAH	B	46-48	8.0	
M	CC						
## 31	7	83	RAWAH	B	46-48	43.0	
M	S						
## 32	7	84	RAWAH	B	46-48	15.0	
M	S						
## 33	8	91	RAWAH	A	0-2	9.0	
M	S						
## 34	8	92	RAWAH	A	40-42	24.0	
L	F						
## 35	8	93	RAWAH	B	40-42	9.0	
A	F						
## 36	11	96	BLUE	A	20-22	29.0	A/
M	S						
## 37	11	97	BLUE	A	26-28	25.0	A/
M	CC						
## 38	12	98	BLUE	A	0-2	28.0	
M	S						
## 39	12	99	BLUE	A	0-2	16.0	
M	S						
## 40	12	100	BLUE	A	0-2	6.0	
M	S						
## 41	14	102	RES	B	16-18	10.0	
M	CC						
## 42	19	107	RAWAH	A	0-2	14.0	
A	CC						
## 43	19	108	RAWAH	A	0-2	1.5	
A	CC						
## 44	20	109	SNOW	A	2-4	39.0	A/
B	S						
## 45	20	110	SNOW	A	2-4	19.0	A/
B	S						
## 46	20	111	SNOW	A	2-4	3.0	A/
B	S						
## 47	20	112	SNOW	A	2-4	10.0	A/
B	F						



## 48	20	113	SNOW	A	2-4	7.0	A/
B	S						
## 49	20	114	SNOW	A	2-4	12.0	A/
B	F						
## 50	20	115	SNOW	A	2-4	18.0	A/
B	F						
## 51	20	116	SNOW	A	2-4	15.5	A/
B	F						
## 52	20	117	SNOW	A	2-4	20.0	A/
B	CC						
## 53	20	118	SNOW	A	2-4	22.0	A/
B	CV						
## 54	20	133	SNOW	B	10-12	7.0	A/
B	F						
## 55	20	134	SNOW	B	10-12	15.0	B/
M	CV						
## 56	20	135	SNOW	B	12-14	27.5	
B	F						
## 57	20	136	SNOW	B	12-14	12.0	B/
M	F						
## 58	20	138	SNOW	B	16-18	15.5	
A	CC						
## 59	20	139	SNOW	B	16-18	17.0	
A	F						
## 60	20	140	SNOW	B	16-18	6.5	
A	F						
## 61	20	141	SNOW	B	16-18	4.0	
A	F						
## 62	20	142	SNOW	B	18-20	20.5	
A	CC						
## 63	20	143	SNOW	B	18-20	18.5	A/
B	CC						
## 64	20	144	SNOW	B	18-20	5.5	
A	CC						
## 65	20	160	SNOW	B	18-20	9.5	
A	CC						
## 66	20	161	SNOW	B	18-20	13.5	
A	CV						
## 67	20	163	SNOW	B	18-20	31.5	
A	CV						
## 68	20	166	SNOW	B	20-22	18.5	
A	S						

## 69	20	167	SNOW	B	20-22	29.5	
A	CC						
## 70	20	168	SNOW	B	50-52	4.5	
A	CC						
## 71	21	169	LONG	A	24-26	23.5	
A	CC						
## 72	21	171	LONG	A	48-50	21.0	A/
B	CC						
## 73	21	172	LONG	A	48-50	5.0	A/
B	S						
## 74	21	173	LONG	A	48-50	10.0	
A	CC						
## 75	21	175	LONG	A	48-50	14.5	A/
L	CC						
## 76	21	176	LONG	B	20-22	7.0	A/
L	CC						
## 77	22	177	MONTY	B	10-12	22.5	
A	S						
## 78	23	183	MONTY	A	32-34	15.5	
A	CV						
## 79	23	196	MONTY	A	34-36	4.0	
A	CC						
## 80	23	197	MONTY	A	34-36	4.0	
A	CV						
## 81	23	201	MONTY	A	36-38	7.4	
A	CV						
## 82	23	202	MONTY	A	36-38	2.1	
A	F						
## 83	23	204	MONTY	A	36-38	4.8	
A	CC						
## 84	23	205	MONTY	A	36-38	5.0	
A	CC						
## 85	24	207	MONTY	A	22-24	4.8	
A	F						
## 86	25	209	LONG	A	0-2	4.2	
A	F						
## 87	25	219	LONG	A	6-8	3.9	
B	F						
## 88	25	220	LONG	A	6-8	5.5	
B	F						
## 89	25	221	LONG	A	6-8	2.6	
B	F						

## 90	25	232	LONG	A	8-10	7.1	
M	CC						
## 91	25	233	LONG	A	8-10	13.6	
M	S						
## 92	25	236	LONG	A	8-10	5.8	
B	CC						
## 93	25	238	LONG	A	8-10	3.2	
M	CC						
## 94	25	240	LONG	A	12-14	11.0	B/
M	F						
## 95	25	241	LONG	A	12-14	11.9	A/
B	S						
## 96	25	242	LONG	A	12-14	6.8	A/
B	S						
## 97	25	250	LONG	A	12-14	3.9	
B	CC						
## 98	25	253	LONG	A	14-16	3.5	
A	F						
## 99	25	256	LONG	A	16-18	8.8	
M	F						
## 100	25	257	LONG	A	16-18	9.0	
B	S						
## 101	25	258	LONG	A	16-18	6.5	
B	F						
## 102	25	259	LONG	A	16-18	12.0	
B	S						
## 103	25	260	LONG	A	16-18	10.0	B/
M	S						
## 104	25	261	LONG	A	16-18	4.0	A/
B	CC						
## 105	25	262	LONG	A	16-18	4.0	A/
B	CC						
## 106	25	263	LONG	A	16-18	3.0	A/
B	S						
## 107	25	264	LONG	A	16-18	2.0	A/
B	S						
## 108	25	265	LONG	A	20-22	6.5	
A	S						
## 109	26	270	LONG	A	16-18	18.1	B/
M	S						
## 110	26	271	LONG	A	24-26	11.4	
A	CC						

## 111	26	277	LONG	A	30-32	9.4	A/
L	F						
## 112	26	279	LONG	A	36-38	15.3	
A	F						
## 113	26	283	LONG	B	40-42	23.0	A/
B	CC						
## 114	26	284	LONG	B	40-42	12.5	
A	CC						
## 115	26	285	LONG	B	40-42	5.0	
A	CC						
## 116	27	287	LONG	A	0-2	20.1	
B	S						
## 117	27	290	LONG	B	0-2	19.8	
A	F						
## 118	27	296	LONG	B	0-2	5.1	
B	S						
## 119	27	298	LONG	B	34-36	15.5	
A	S						
## 120	27	299	LONG	B	34-36	2.0	
A	F						
## 121	27	300	LONG	B	34-36	1.0	
A	F						
## 122	27	301	LONG	B	34-36	0.5	
A	F						
## 123	30	306	FISH	A	34-36	16.0	
L	F						
## 124	34	312	CAM	A	14-16	15.0	
A	S						
## 125	34	319	CAM	A	32-34	1.2	
A	CV						
## 126	34	322	CAM	A	36-38	2.2	
A	CC						
## 127	34	327	CAM	A	42-44	4.3	A/
L	CC						
## 128	34	328	CAM	A	42-44	1.3	A/
L	CC						
## 129	34	329	CAM	A	42-44	1.5	
A	F						
## 130	34	330	CAM	A	42-44	4.4	
A	CC						
## 131	34	335	CAM	B	2-4	11.1	
A	F						

## 132	34	338	CAM	B	14-16	1.6	
A	CC						
## 133	34	339	CAM	B	20-22	3.7	
A	CC						
## 134	35	343	CAM	B	2-4	16.4	
A	CC						
## 135	35	346	CAM	B	14-16	4.4	B/
M	CC						
## 136	35	347	CAM	B	14-16	10.4	A/
B	CC						
## 137	35	348	CAM	B	20-22	9.7	
A	F						
## 138	35	349	CAM	B	48-50	3.5	B/
M	F						
## 139	36	350	CAM	A	6-8	28.7	
A	S						
## 140	36	351	CAM	A	8-10	9.9	
A	F						
## 141	36	352	CAM	A	8-10	18.8	
A	CC						
## 142	36	353	CAM	A	24-26	18.0	
A	CC						
## 143	36	354	CAM	A	30-32	4.9	
A	F						
## 144	36	362	CAM	A	44-46	6.4	B/
M	CC						
## 145	36	365	CAM	A	48-50	13.1	B/
M	CC						
## 146	36	366	CAM	A	48-50	1.4	B/
M	CC						
## 147	36	368	CAM	A	48-50	8.5	B/
M	CV						
## 148	36	369	CAM	B	34-36	6.0	
B	S						
## 149	36	370	CAM	B	34-36	6.6	
B	S						
## 150	36	371	CAM	B	34-36	4.8	
B	CC						
## 151	36	372	CAM	B	34-36	2.9	
B	CC						
## 152	36	373	CAM	B	34-36	13.8	
B	CV						

## 153	36	374	CAM	B	36-38	16.9	
B	CC						
## 154	36	375	CAM	B	36-38	13.0	B/
L	CC						
## 155	36	376	CAM	B	36-38	10.5	
B	CC						
## 156	36	377	CAM	B	36-38	30.3	A/
B	F						
## 157	36	378	CAM	B	36-38	29.6	
B	CV						
## 158	36	382	CAM	B	36-38	7.9	
B	F						
## 159	36	383	CAM	B	36-38	5.5	
B	F						
## 160	36	384	CAM	B	36-38	13.3	
A	S						
## 161	36	385	CAM	B	36-38	3.4	
B	S						
## 162	36	386	CAM	B	36-38	3.6	
B	S						
## 163	36	387	CAM	B	40-42	18.6	
B	CC						
## 164	36	388	CAM	B	40-42	15.9	
B	CC						
## 165	36	389	CAM	B	40-42	11.5	
A	S						
## 166	36	392	CAM	B	42-44	12.4	
B	S						
## 167	36	393	CAM	B	42-44	11.0	
B	CC						
## 168	36	394	CAM	B	42-44	13.4	
B	CC						
## 169	36	395	CAM	B	42-44	10.8	
A	S						
## 170	36	396	CAM	B	42-44	18.2	A/
B	S						
## 171	36	397	CAM	B	42-44	14.6	
B	S						
## 172	36	398	CAM	B	42-44	15.1	A/
B	S						
## 173	36	399	CAM	B	42-44	4.4	
A	S						

## 174	36	400	CAM	B	42-44	11.0	
A	CC						
## 175	36	401	CAM	B	42-44	3.1	
B	S						
## 176	36	402	CAM	B	48-50	19.8	
A	CC						
## 177	38	405	CAM	A	0-2	18.6	A/
B	CV						
## 178	38	413	CAM	A	4-6	3.5	
B	CC						
## 179	38	423	CAM	A	12-14	7.6	
B	CC						
## 180	38	424	CAM	A	12-14	5.2	
B	CC						
## 181	38	428	CAM	A	14-16	4.7	
B	CV						
## 182	38	434	CAM	A	16-18	8.2	
B	CC						
## 183	38	437	CAM	A	16-18	5.1	
B	F						
## 184	38	438	CAM	A	16-18	5.2	
B	S						
## 185	38	439	CAM	A	20-22	45.7	
B	S						
## 186	38	441	CAM	A	20-22	3.6	
B	CC						
## 187	38	442	CAM	A	20-22	7.2	
B	CC						
## 188	38	444	CAM	A	22-24	15.0	
B	CC						
## 189	38	445	CAM	A	22-24	12.0	
B	S						
## 190	38	446	CAM	A	22-24	9.6	
B	S						
## 191	38	447	CAM	A	22-24	9.4	A/
B	S						
## 192	38	451	CAM	A	22-24	8.1	A/
B	S						
## 193	38	452	CAM	A	22-24	7.5	
B	CC						
## 194	38	454	CAM	A	22-24	9.6	
A	CC						

## 195	38	456	CAM	A	26-28	26.2
A	S					
## 196	38	457	CAM	A	32-34	9.6
B	CV					
## 197	38	458	CAM	A	32-34	10.4
B	F					
## 198	38	460	CAM	A	32-34	8.2
B	S					
## 199	38	461	CAM	A	32-34	10.6
B	S					
## 200	38	462	CAM	A	32-34	9.9
B	S					
## 201	38	463	CAM	A	32-34	2.2
B	F					
## 202	38	464	CAM	A	32-34	3.0
B	S					
## 203	38	465	CAM	A	32-34	6.5
B	CC					
## 204	38	466	CAM	A	32-34	11.4
B	S					
## 205	38	467	CAM	A	32-34	6.3
B	CV					
## 206	38	468	CAM	A	34-36	9.8
B	CC					
## 207	38	469	CAM	A	34-36	15.0
B	F					
## 208	38	470	CAM	A	34-36	7.5
B	CC					
## 209	38	471	CAM	A	34-36	2.9
B	F					
## 210	38	472	CAM	A	34-36	16.9
B	CC					
## 211	38	479	CAM	A	34-36	8.3
B	F					
## 212	38	480	CAM	A	34-36	3.8
B	F					
## 213	38	490	CAM	B	4-6	10.4
A	F					
## 214	38	494	CAM	B	6-8	7.1
A	CC					
## 215	38	495	CAM	B	18-20	16.0
L	S					



## 216	38	497	CAM	B	20-22	11.5	
B	S						
## 217	38	498	CAM	B	20-22	7.9	
B	F						
## 218	38	500	CAM	B	20-22	10.5	
B	F						
## 219	38	501	CAM	B	20-22	7.3	
B	CC						
## 220	38	502	CAM	B	20-22	10.8	
B	S						
## 221	38	503	CAM	B	20-22	11.7	
B	S						
## 222	38	504	CAM	B	20-22	10.0	
B	S						
## 223	38	505	CAM	B	22-24	9.5	
A	F						
## 224	38	506	CAM	B	22-24	2.9	
B	F						
## 225	38	507	CAM	B	28-30	8.7	
B	S						
## 226	38	510	CAM	B	28-30	1.2	
B	F						
## 227	38	511	CAM	B	30-32	1.0	
B	F						
## 228	38	512	CAM	B	30-32	0.5	
B	F						
## 229	38	513	CAM	B	28-30	14.6	A/
B	S						
## 230	38	514	CAM	B	30-32	4.4	A/
B	F						
## 231	38	515	CAM	B	30-32	1.5	
B	F						
## 232	38	516	CAM	B	32-34	46.6	
B	CC						
## 233	38	518	CAM	B	34-36	12.1	
B	S						
## 234	38	521	CAM	B	34-36	23.3	
B	S						
## 235	38	522	CAM	B	34-36	22.8	
B	S						
## 236	38	523	CAM	B	34-36	15.0	
B	S						

## 237	38	524	CAM	B	34-36	13.9
B	F					
## 238	38	538	CAM	B	40-42	5.0
B	F					
## 239	38	539	CAM	B	40-42	8.2
B	F					
## 240	38	540	CAM	B	40-42	3.1
B	F					
## 241	38	551	CAM	B	42-44	23.2
B	S					
## 242	38	552	CAM	B	42-44	22.5
B	S					
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse
site.name						
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LAKE						
## 2	F	1	0	51	0	0
LAKE						
## 3	F	1	0	51	0	0
LAKE						
## 4	S	1	0	51	0	1
LAKE						
## 5	F	1	0	51	0	0
RAWAH						
## 6	F	1	0	51	0	0
RAWAH						
## 7	S	1	0	51	0	0
RAWAH						
## 8	S	1	0	51	0	0
RAWAH						
## 9	F	1	0	51	0	0
RAWAH						
## 10	F	1	0	51	0	1
RAWAH						
## 11	F	1	0	51	0	0
RAWAH						
## 12	F	1	0	51	0	0
RAWAH						
## 13	CC	1	0	51	0	0
RAWAH						
## 14	CC	1	0	51	0	0
RAWAH						

## 15	CC	1	0	51	0	0
RAWAH						
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RAWAH						
## 17	CC	1	0	51	0	0
RAWAH						
## 18	CC	1	0	51	0	0
RAWAH						
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RAWAH						
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RAWAH						
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RAWAH						
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RAWAH						
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RAWAH						
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RAWAH						
## 25	F	1	0	51	0	0
RAWAH						
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RAWAH						
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RAWAH						
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RAWAH						
## 29	CC	1	0	51	0	0
RAWAH						
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RAWAH						
## 31	F	1	0	51	0	0
RAWAH						
## 32	F	1	0	51	0	0
RAWAH						
## 33	S	1	1	51	0	0
RAWAH						
## 34	S	1	1	51	0	0
RAWAH						
## 35	S	1	0	51	0	0
RAWAH						

## 36	S	1	1	51	0	0
BLUE						
## 37	CV	1	1	51	0	0
BLUE						
## 38	S	1	0	51	0	0
BLUE						
## 39	S	1	0	51	0	0
BLUE						
## 40	S	1	0	51	0	0
BLUE						
## 41	S	1	1	51	0	0
RES						
## 42	F	1	0	51	0	0
RAWAH						
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RAWAH						
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SNOW						
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SNOW						
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SNOW						
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SNOW						
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## 61	CC	1	0	51	0	0
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## 63	S	1	0	51	0	0
SNOW						
## 64	S	1	0	51	0	0
SNOW						
## 65	F	1	1	51	0	1
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## 66	S	1	0	51	0	1
SNOW						
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## 68	S	1	0	51	0	1
SNOW						
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SNOW						
## 70	CC	1	0	51	0	0
SNOW						
## 71	CC	1	1	51	0	0
LONG						
## 72	F	1	0	51	0	1
LONG						
## 73	CC	1	0	51	0	0
LONG						
## 74	CC	1	0	51	0	0
LONG						
## 75	F	1	0	51	0	0
LONG						
## 76	CC	1	1	40	0	0
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## 77	S	1	0	51	0	0
MONTY						

## 78	F	1	1	51	0	0
MONTY						
## 79	S	1	0	51	0	0
MONTY						
## 80	S	1	0	51	0	0
MONTY						
## 81	CC	1	0	51	0	0
MONTY						
## 82	CC	1	0	51	0	0
MONTY						
## 83	S	1	0	51	0	0
MONTY						
## 84	S	1	0	51	0	0
MONTY						
## 85	CC	1	1	51	0	1
MONTY						
## 86	F	1	0	51	0	1
LONG						
## 87	CC	1	0	51	0	0
LONG						
## 88	CC	1	0	51	0	0
LONG						
## 89	CC	1	0	51	0	0
LONG						
## 90	CC	1	0	51	0	0
LONG						
## 91	CC	1	0	51	0	0
LONG						
## 92	CC	1	0	51	0	0
LONG						
## 93	F	1	0	51	0	0
LONG						
## 94	CC	1	0	51	0	0
LONG						
## 95	CC	1	0	51	0	0
LONG						
## 96	CC	1	0	51	0	0
LONG						
## 97	CC	1	0	51	0	0
LONG						
## 98	F	1	0	51	0	1
LONG						

## 99	CC	1	0	51	0	1
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## 101	CC	1	0	51	0	0
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LONG						
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## 106	CC	1	0	51	0	0
LONG						
## 107	CC	1	0	51	0	0
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LONG						
## 110	CC	1	0	51	0	1
LONG						
## 111	F	1	0	51	0	1
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## 112	CC	1	0	51	0	1
LONG						
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LONG						
## 114	CC	1	1	51	0	0
LONG						
## 115	CC	1	1	51	0	0
LONG						
## 116	CC	1	0	51	0	0
LONG						
## 117	CC	1	1	51	0	0
LONG						
## 118	S	1	0	51	0	0
LONG						
## 119	CC	1	0	51	0	1
LONG						

## 120	F	1	0	51	0	0
LONG						
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LONG						
## 122	S	1	0	51	0	0
LONG						
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FISH						
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## 241	S	1	0	51	0	0
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##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing
## 1	6	15.0	LAKE	427647.0	4493988
2835	-6				
## 2	6	6.0	LAKE	427647.0	4493988
2835	-6				

## 3		6	3.5	LAKE	427647.0	4493988
2835	-6					
## 4		6	39.0	LAKE	427647.0	4493988
2835	-6					
## 5		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 6		7	23.0	RAWAH	427082.0	4499706
2710	-7					
## 7		7	13.0	RAWAH	427082.0	4499706
2710	-7					
## 8		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 9		7	14.0	RAWAH	427082.0	4499706
2710	-7					
## 10		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 11		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	17.0	RAWAH	427082.0	4499706
2710	-7					
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2710	-7					
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2710	-7					
## 17		7	25.0	RAWAH	427082.0	4499706
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2710	-7					
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2710	-7					
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2710	-7					
## 21		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	39.0	RAWAH	427082.0	4499706
2710	-7					

## 24		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	34.0	RAWAH	427082.0	4499706
2710	-7					
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2710	-7					
## 28		7	45.0	RAWAH	427082.0	4499706
2710	-7					
## 29		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 30		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 31		7	43.0	RAWAH	427082.0	4499706
2710	-7					
## 32		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 33		8	9.0	RAWAH	426956.0	4499540
2724	-9					
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2724	-9					
## 35		8	9.0	RAWAH	426956.0	4499540
2724	-9					
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2901	-10					
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2901	-10					
## 38		12	28.0	BLUE	427290.0	4493596
2926	-11					
## 39		12	16.0	BLUE	427290.0	4493596
2926	-11					
## 40		12	6.0	BLUE	427290.0	4493596
2926	-11					
## 41		14	10.0	RES	426126.0	4490180
3040	-7					
## 42		19	14.0	RAWAH	427155.5	4498773
2751	-10					
## 43		19	1.5	RAWAH	427155.5	4498773
2751	-10					
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2959	-10					

## 45		20	19.0	SNOW	426996.6	4492304
2959	-10					
## 46		20	3.0	SNOW	426996.6	4492304
2959	-10					
## 47		20	10.0	SNOW	426996.6	4492304
2959	-10					
## 48		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 49		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 50		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 51		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 52		20	20.0	SNOW	426996.6	4492304
2959	-10					
## 53		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 54		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 55		20	15.0	SNOW	426996.6	4492304
2959	-10					
## 56		20	27.5	SNOW	426996.6	4492304
2959	-10					
## 57		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 58		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 59		20	17.0	SNOW	426996.6	4492304
2959	-10					
## 60		20	6.5	SNOW	426996.6	4492304
2959	-10					
## 61		20	4.0	SNOW	426996.6	4492304
2959	-10					
## 62		20	20.5	SNOW	426996.6	4492304
2959	-10					
## 63		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 64		20	5.5	SNOW	426996.6	4492304
2959	-10					
## 65		20	9.5	SNOW	426996.6	4492304
2959	-10					



## 66		20	13.5	SNOW	426996.6	4492304
2959	-10					
## 67		20	31.5	SNOW	426996.6	4492304
2959	-10					
## 68		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 69		20	29.5	SNOW	426996.6	4492304
2959	-10					
## 70		20	4.5	SNOW	426996.6	4492304
2959	-10					
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3029	-1					
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3029	-1					
## 73		21	5.0	LONG	429815.3	4490511
3029	-1					
## 74		21	10.0	LONG	429815.3	4490511
3029	-1					
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3029	-1					
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## Aspect Topographic.Position Transect.A..ORIENTATION.DEGREES.  
Transect.B

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## 214	190	F/S	56
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## 220	190	F/S	56
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## 240	190	F/S	56
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## 241	190	F/S	56
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##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen
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Lcwda

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.		
Substrate	Small.Topo						
## 1	1	1	ELKHORN	A	8-10	25.0	
L	F						
## 2	1	2	ELKHORN	A	38-40	30.0	
M	F						
## 3	1	3	ELKHORN	B	12-14	25.0	
M	F						
## 4	5	7	LAKE	A	14-16	20.5	
M	CC						
## 5	6	8	LAKE	A	2-4	44.0	
M	CC						
## 6	6	13	LAKE	A	16-18	18.0	
M	F						
## 7	7	14	RAWAH	A	0-2	27.0	B/
M	CC						
## 8	7	15	RAWAH	A	0-2	26.0	B/
M	F						
## 9	7	16	RAWAH	A	0-2	30.0	B/
M	F						
## 10	7	17	RAWAH	A	0-2	21.0	B/
M	F						
## 11	7	18	RAWAH	A	0-2	17.0	B/
M	S						
## 12	7	19	RAWAH	A	0-2	31.0	B/
M	S						
## 13	7	20	RAWAH	A	0-2	26.0	B/
M	CC						
## 14	7	21	RAWAH	A	0-2	16.0	B/
M	S						
## 15	7	22	RAWAH	A	0-2	17.0	B/
M	CC						
## 16	7	23	RAWAH	A	0-2	28.0	B/
M	CC						
## 17	7	24	RAWAH	A	0-2	28.0	B/
M	CC						

## 18	7	25	RAWAH	A	0-2	44.0	B/
M	CC						
## 19	7	26	RAWAH	A	0-2	15.0	
M	CC						
## 20	7	27	RAWAH	A	0-2	42.0	
M	CC						
## 21	7	29	RAWAH	B	14-16	22.0	
A	F						
## 22	7	30	RAWAH	B	14-16	19.0	
A	F						
## 23	7	31	RAWAH	B	14-16	26.0	
A	F						
## 24	7	32	RAWAH	B	14-16	24.0	
A	F						
## 25	7	33	RAWAH	B	16-18	19.0	
A	CC						
## 26	7	34	RAWAH	B	16-18	18.0	
A	CC						
## 27	7	35	RAWAH	B	16-18	11.0	
A	CC						
## 28	7	36	RAWAH	B	30-32	21.0	B/
M	F						
## 29	7	37	RAWAH	B	30-32	31.0	B/
M	F						
## 30	7	38	RAWAH	B	30-32	35.0	B/
M	F						
## 31	7	39	RAWAH	B	30-32	31.0	B/
M	F						
## 32	7	43	RAWAH	B	36-38	27.0	
M	CC						
## 33	7	47	RAWAH	B	38-40	30.0	
M	F						
## 34	7	48	RAWAH	B	38-40	54.0	
M	F						
## 35	7	50	RAWAH	B	42-44	37.0	B/
M	F						
## 36	7	51	RAWAH	B	42-44	29.0	
M	CC						
## 37	7	60	RAWAH	B	42-44	11.0	
B	CV						
## 38	7	61	RAWAH	B	42-44	15.0	
B	CV						

## 39	7	62	RAWAH	B	42-44	8.0	
B	CV						
## 40	7	67	RAWAH	B	42-44	16.0	
M	F						
## 41	7	69	RAWAH	B	42-44	25.0	
M	F						
## 42	7	70	RAWAH	B	42-44	17.0	
M	F						
## 43	7	71	RAWAH	B	42-44	26.0	
M	F						
## 44	7	72	RAWAH	B	42-44	26.0	
B	CC						
## 45	7	73	RAWAH	B	42-44	16.0	B/
M	S						
## 46	7	74	RAWAH	B	42-44	20.0	
M	S						
## 47	7	75	RAWAH	B	42-44	40.0	
M	F						
## 48	7	79	RAWAH	B	44-46	51.0	
M	F						
## 49	7	81	RAWAH	B	46-48	29.0	
M	F						
## 50	7	85	RAWAH	B	46-48	47.0	
M	CC						
## 51	7	86	RAWAH	B	46-48	32.0	
M	CC						
## 52	7	87	RAWAH	B	46-48	34.0	
B	F						
## 53	7	88	RAWAH	B	48-50	17.0	
M	CV						
## 54	7	89	RAWAH	B	48-50	26.0	
M	CV						
## 55	7	90	RAWAH	B	48-50	32.0	
M	CV						
## 56	17	105	RAWAH	B	40-42	6.0	
M	CC						
## 57	20	119	SNOW	A	4-6	6.0	
M	S						
## 58	20	120	SNOW	A	4-6	12.0	A/
B	S						
## 59	20	121	SNOW	A	4-6	7.0	A/
B	S						

## 60	20	122	SNOW	A	4-6	8.0	A/
B	S						
## 61	20	123	SNOW	A	4-6	9.0	A/
B	CV						
## 62	20	124	SNOW	A	4-6	9.5	
A	CV						
## 63	20	125	SNOW	A	4-6	11.0	
A	CV						
## 64	20	126	SNOW	A	4-6	11.0	
B	S						
## 65	20	127	SNOW	A	4-6	18.0	
B	CC						
## 66	20	128	SNOW	A	4-6	12.0	A/
B	S						
## 67	20	129	SNOW	A	4-6	9.0	
B	S						
## 68	20	130	SNOW	A	4-6	8.5	A/
B	S						
## 69	20	131	SNOW	A	8-10	22.0	
A	F						
## 70	20	132	SNOW	B	10-12	4.5	
B	CV						
## 71	20	137	SNOW	B	14-16	17.0	L/
M	F						
## 72	20	145	SNOW	B	18-20	11.5	
A	CC						
## 73	20	146	SNOW	B	18-20	11.0	
A	CC						
## 74	20	147	SNOW	B	18-20	8.0	
A	CC						
## 75	20	148	SNOW	B	18-20	13.5	
A	S						
## 76	20	149	SNOW	B	18-20	1.5	
A	CC						
## 77	20	150	SNOW	B	18-20	16.0	
A	S						
## 78	20	151	SNOW	B	18-20	22.5	
A	CC						
## 79	20	152	SNOW	B	18-20	12.5	
A	S						
## 80	20	153	SNOW	B	18-20	17.5	
A	CC						

## 81	20	154	SNOW	B	18-20	17.5	
A	CC						
## 82	20	155	SNOW	B	18-20	11.5	
A	S						
## 83	20	156	SNOW	B	18-20	7.5	
B	CV						
## 84	20	157	SNOW	B	18-20	12.0	
B	CV						
## 85	20	158	SNOW	B	18-20	23.5	
B	CC						
## 86	20	159	SNOW	B	18-20	18.5	A/
B	CC						
## 87	20	162	SNOW	B	18-20	18.0	
A	S						
## 88	20	164	SNOW	B	20-22	19.5	
M	S						
## 89	20	165	SNOW	B	20-22	22.0	
A	CV						
## 90	21	170	LONG	A	42-44	21.5	A/
L	F						
## 91	21	174	LONG	A	48-50	5.0	
B	CC						
## 92	23	178	MONTY	A	32-34	9.5	
A	S						
## 93	23	179	MONTY	A	32-34	9.0	
A	CC						
## 94	23	180	MONTY	A	32-34	7.9	
A	CC						
## 95	23	181	MONTY	A	32-34	8.8	
A	CV						
## 96	23	182	MONTY	A	32-34	8.0	
A	CV						
## 97	23	184	MONTY	A	32-34	6.0	
A	CV						
## 98	23	185	MONTY	A	32-34	14.0	
A	CV						
## 99	23	186	MONTY	A	34-36	8.0	A/
L	F						
## 100	23	187	MONTY	A	34-36	1.0	
A	S						
## 101	23	188	MONTY	A	34-36	5.5	
A	CC						

## 102	23	189	MONTY	A	34-36	6.9	
A	CC						
## 103	23	190	MONTY	A	34-36	1.1	
A	CC						
## 104	23	191	MONTY	A	34-36	1.2	
A	S						
## 105	23	192	MONTY	A	34-36	1.6	
A	S						
## 106	23	193	MONTY	A	34-36	4.3	A/
L	CV						
## 107	23	194	MONTY	A	34-36	4.6	A/
L	CV						
## 108	23	195	MONTY	A	34-36	5.0	A/
L	CV						
## 109	23	198	MONTY	A	36-38	5.6	
A	CV						
## 110	23	199	MONTY	A	36-38	7.2	
A	CV						
## 111	23	200	MONTY	A	36-38	5.7	
A	S						
## 112	23	203	MONTY	A	36-38	3.3	
A	S						
## 113	23	206	MONTY	A	38-40	7.4	
A	S						
## 114	24	208	MONTY	B	16-18	6.1	A/
L	CC						
## 115	25	210	LONG	A	2-4	4.5	
L	F						
## 116	25	211	LONG	A	2-4	6.8	
L	CC						
## 117	25	212	LONG	A	4-6	8.1	A/
L	CC						
## 118	25	213	LONG	A	6-8	6.1	
B	CV						
## 119	25	214	LONG	A	6-8	6.0	
B	CC						
## 120	25	215	LONG	A	6-8	2.6	
B	CC						
## 121	25	216	LONG	A	6-8	3.0	
B	CC						
## 122	25	217	LONG	A	6-8	5.0	
B	CC						



## 123	25	218	LONG	A	6-8	1.5	
B	F						
## 124	25	222	LONG	A	6-8	9.6	
B	CC						
## 125	25	223	LONG	A	6-8	7.9	
B	CC						
## 126	25	224	LONG	A	6-8	3.0	
B	CV						
## 127	25	225	LONG	A	6-8	8.6	
B	CC						
## 128	25	226	LONG	A	6-8	5.3	
B	CV						
## 129	25	227	LONG	A	6-8	5.0	
B	CC						
## 130	25	228	LONG	A	6-8	10.2	
B	CV						
## 131	25	229	LONG	A	6-8	3.1	
B	CC						
## 132	25	230	LONG	A	6-8	5.1	
B	S						
## 133	25	231	LONG	A	6-8	4.1	
B	S						
## 134	25	234	LONG	A	8-10	7.9	A/
B	CC						
## 135	25	235	LONG	A	8-10	4.6	
B	CV						
## 136	25	237	LONG	A	8-10	7.1	
M	CV						
## 137	25	239	LONG	A	10-12	7.0	B/
M	F						
## 138	25	243	LONG	A	12-14	2.0	
A	CC						
## 139	25	244	LONG	A	12-14	5.0	
B	S						
## 140	25	245	LONG	A	12-14	15.6	
B	F						
## 141	25	246	LONG	A	12-14	24.9	
B	S						
## 142	25	247	LONG	A	12-14	3.9	
B	S						
## 143	25	248	LONG	A	12-14	4.0	
B	CC						

## 144	25	249	LONG	A	12-14	8.4	
B	CC						
## 145	25	251	LONG	A	12-14	3.5	
M	CC						
## 146	25	252	LONG	A	12-14	9.9	
M	S						
## 147	25	254	LONG	A	14-16	2.9	
A	F						
## 148	25	255	LONG	A	14-16	7.5	
B	S						
## 149	25	266	LONG	A	24-26	4.0	
M	F						
## 150	25	267	LONG	B	36-38	7.0	
M	S						
## 151	25	268	LONG	B	36-38	4.0	A/
L	F						
## 152	25	269	LONG	B	36-38	9.5	
M	S						
## 153	26	272	LONG	A	24-26	13.2	
A	S						
## 154	26	273	LONG	A	26-28	4.7	
A	F						
## 155	26	274	LONG	A	26-28	5.7	
B	CV						
## 156	26	275	LONG	A	26-28	15.9	
A	F						
## 157	26	276	LONG	A	26-28	7.1	
A	F						
## 158	26	278	LONG	A	36-38	1.6	
A	F						
## 159	26	280	LONG	A	36-38	1.1	
A	S						
## 160	26	281	LONG	A	40-42	7.4	
A	F						
## 161	26	282	LONG	B	0-2	16.5	
A	S						
## 162	27	286	LONG	A	0-2	5.5	A/
B	F						
## 163	27	288	LONG	A	0-2	5.6	
A	F						
## 164	27	289	LONG	A	0-2	6.5	
A	F						

## 165	27	291	LONG	B	0-2	9.0	A/
B	S						
## 166	27	292	LONG	B	0-2	10.2	A/
B	CC						
## 167	27	293	LONG	B	0-2	22.4	
A	S						
## 168	27	294	LONG	B	0-2	4.4	
B	S						
## 169	27	295	LONG	B	0-2	14.9	
B	CV						
## 170	27	297	LONG	B	32-34	4.6	
A	S						
## 171	28	302	FISH	A	24-26	15.0	
M	F						
## 172	28	303	FISH	B	16-18	20.0	
A	F						
## 173	28	304	FISH	B	44-46	17.0	
A	CC						
## 174	30	307	FISH	B	44-46	35.1	
L	S						
## 175	33	310	CR69	A	42-44	9.5	
M	S						
## 176	33	311	CR69	B	38-40	25.9	
M	F						
## 177	34	313	CAM	A	18-20	1.1	
M	CC						
## 178	34	314	CAM	A	20-22	0.9	
A	CC						
## 179	34	315	CAM	A	30-32	0.5	
A	CC						
## 180	34	316	CAM	A	30-32	13.1	
A	CC						
## 181	34	317	CAM	A	30-32	16.3	
A	CC						
## 182	34	318	CAM	A	30-32	34.9	
A	CC						
## 183	34	320	CAM	A	34-36	4.0	
A	S						
## 184	34	321	CAM	A	34-36	26.7	
A	CC						
## 185	34	323	CAM	A	40-42	2.1	
A	CC						

## 186	34	324	CAM	A	40-42	3.3	
A	CC						
## 187	34	325	CAM	A	40-42	4.8	
A	CC						
## 188	34	326	CAM	A	40-42	4.7	A/
L	CC						
## 189	34	331	CAM	A	44-46	6.1	
A	S						
## 190	34	332	CAM	A	46-48	2.4	A/
L	CC						
## 191	34	333	CAM	A	48-50	58.4	
A	F						
## 192	34	334	CAM	A	48-50	0.8	A/
L	CC						
## 193	34	336	CAM	B	10-12	2.8	
A	F						
## 194	34	337	CAM	B	12-14	30.5	A/
L	CV						
## 195	34	340	CAM	B	38-40	1.5	A/
L	CC						
## 196	34	341	CAM	B	40-42	3.4	
A	S						
## 197	35	342	CAM	A	14-16	31.2	
A	CC						
## 198	35	344	CAM	B	4-6	4.6	
A	F						
## 199	35	345	CAM	B	4-6	24.8	A/
B	CV						
## 200	36	355	CAM	A	30-32	4.1	A/
W	CV						
## 201	36	356	CAM	A	34-36	1.1	
A	F						
## 202	36	357	CAM	A	40-42	5.4	
M	CC						
## 203	36	358	CAM	A	42-44	5.1	
B	CC						
## 204	36	359	CAM	A	42-44	2.9	
B	CV						
## 205	36	360	CAM	A	42-44	9.9	
B	S						
## 206	36	361	CAM	A	42-44	13.2	
B	CC						

## 207	36	363	CAM	A	46-48	2.3	
M	CC						
## 208	36	364	CAM	A	48-50	18.1	B/
M	CC						
## 209	36	367	CAM	A	48-50	8.7	B/
M	CC						
## 210	36	379	CAM	B	36-38	21.7	
B	F						
## 211	36	380	CAM	B	36-38	20.4	
A	CC						
## 212	36	381	CAM	B	36-38	9.6	
A	F						
## 213	36	390	CAM	B	38-40	3.7	
B	CC						
## 214	36	391	CAM	B	42-44	6.1	A/
B	CC						
## 215	38	404	CAM	A	0-2	3.2	
B	F						
## 216	38	406	CAM	A	4-6	4.1	
B	CC						
## 217	38	407	CAM	A	4-6	4.9	
B	CC						
## 218	38	408	CAM	A	4-6	7.9	
B	S						
## 219	38	409	CAM	A	4-6	4.5	
B	F						
## 220	38	410	CAM	A	4-6	4.7	
B	S						
## 221	38	411	CAM	A	4-6	17.1	
B	S						
## 222	38	412	CAM	A	4-6	9.1	
B	CC						
## 223	38	414	CAM	A	10-12	10.4	
B	CC						
## 224	38	415	CAM	A	10-12	6.3	
B	S						
## 225	38	416	CAM	A	10-12	11.7	A/
B	F						
## 226	38	417	CAM	A	10-12	10.3	
B	S						
## 227	38	418	CAM	A	10-12	5.2	
B	S						

## 228	38	419	CAM	A	12-14	3.8	
B	CC						
## 229	38	420	CAM	A	12-14	4.6	
B	S						
## 230	38	421	CAM	A	12-14	5.5	
B	CV						
## 231	38	422	CAM	A	12-14	6.2	
B	S						
## 232	38	425	CAM	A	12-14	7.5	A/
B	F						
## 233	38	426	CAM	A	12-14	4.4	
B	F						
## 234	38	427	CAM	A	14-16	22.6	
B	C						
## 235	38	429	CAM	A	16-18	8.4	
B	CC						
## 236	38	430	CAM	A	16-18	18.3	
B	CC						
## 237	38	431	CAM	A	16-18	6.1	
B	CC						
## 238	38	432	CAM	A	16-18	4.2	
B	CC						
## 239	38	433	CAM	A	16-18	10.5	
B	S						
## 240	38	435	CAM	A	16-18	8.1	
B	F						
## 241	38	436	CAM	A	16-18	5.3	
B	S						
## 242	38	440	CAM	A	20-22	14.6	
B	F						
## 243	38	443	CAM	A	20-22	5.2	
B	S						
## 244	38	449	CAM	A	22-24	4.2	
B	CC						
## 245	38	450	CAM	A	22-24	3.1	
A	CC						
## 246	38	453	CAM	A	22-24	2.0	A/
B	S						
## 247	38	455	CAM	A	26-28	1.9	
A	CV						
## 248	38	459	CAM	A	32-34	19.1	
B	CV						

## 249	38	473	CAM	A	34-36	13.0
B	S					
## 250	38	474	CAM	A	34-36	15.0
B	CC					
## 251	38	475	CAM	A	34-36	12.2
B	S					
## 252	38	476	CAM	A	34-36	11.5
B	F					
## 253	38	477	CAM	A	34-36	12.8
B	F					
## 254	38	478	CAM	A	34-36	17.6
B	F					
## 255	38	481	CAM	A	34-36	16.0
B	CC					
## 256	38	482	CAM	A	36-38	18.4
B	S					
## 257	38	483	CAM	A	42-44	4.6
B	CC					
## 258	38	484	CAM	A	48-50	6.2
B	F					
## 259	38	485	CAM	A	48-50	9.5
B	F					
## 260	38	486	CAM	A	48-50	3.2
B	F					
## 261	38	487	CAM	A	48-50	5.1
B	CC					
## 262	38	488	CAM	A	48-50	4.0
B	CC					
## 263	38	489	CAM	A	48-50	6.9
B	S					
## 264	38	491	CAM	B	4-6	6.7
A	S					
## 265	38	492	CAM	B	4-6	14.7
B	S					
## 266	38	493	CAM	B	4-6	17.9
A	CC					
## 267	38	496	CAM	B	20-22	8.5
B	S					
## 268	38	499	CAM	B	20-22	10.3
B	S					
## 269	38	508	CAM	B	28-30	19.7
B	F					

## 270	38	509	CAM	B	28-30	6.9
B	S					
## 271	38	517	CAM	B	34-36	14.3
B	CC					
## 272	38	519	CAM	B	34-36	25.9
B	CV					
## 273	38	520	CAM	B	34-36	6.8
B	F					
## 274	38	525	CAM	B	36-38	7.1
B	F					
## 275	38	526	CAM	B	36-38	6.9
B	F					
## 276	38	527	CAM	B	36-38	6.5
B	S					
## 277	38	528	CAM	B	38-40	10.3
B	S					
## 278	38	529	CAM	B	38-40	11.8
B	S					
## 279	38	530	CAM	B	38-40	3.5
B	S					
## 280	38	531	CAM	B	38-40	5.4
B	S					
## 281	38	532	CAM	B	38-40	6.4
B	CC					
## 282	38	533	CAM	B	38-40	7.0
B	CC					
## 283	38	534	CAM	B	40-42	10.9
B	F					
## 284	38	535	CAM	B	40-42	8.8
B	F					
## 285	38	536	CAM	B	40-42	9.0
B	F					
## 286	38	537	CAM	B	40-42	13.6
B	S					
## 287	38	541	CAM	B	42-44	8.1
B	CV					
## 288	38	542	CAM	B	42-44	2.5
B	F					
## 289	38	543	CAM	B	42-44	6.1
B	CC					
## 290	38	544	CAM	B	42-44	4.9
B	F					



## 291	38	545	CAM	B	42-44	11.5	
B	CC						
## 292	38	546	CAM	B	42-44	2.5	
B	F						
## 293	38	547	CAM	B	42-44	9.4	
B	F						
## 294	38	548	CAM	B	42-44	3.7	
B	CC						
## 295	38	549	CAM	B	42-44	8.0	
B	S						
## 296	38	550	CAM	B	42-44	7.6	
B	S						
## 297	38	553	CAM	B	44-46	3.9	
B	CC						
## 298	38	554	CAM	B	44-46	7.0	
B	CC						
## 299	38	555	CAM	B	44-46	5.1	
B	CC						
## 300	38	556	CAM	B	46-48	3.1	
B	CC						
## 301	38	557	CAM	B	50-52	11.6	
B	S						
## 302	38	558	CAM	B	50-52	11.8	A/
B	CC						
## 303	38	559	CAM	B	50-52	3.4	
A	CC						
## 304	38	560	CAM	B	50-52	19.0	
B	S						
## 305	38	561	CAM	B	50-52	6.5	
A	CC						
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	CC	0	0	1.25	0	0	
ELKHORN							
## 2	F	0	0	1.30	0	0	
ELKHORN							
## 3	F	0	0	0.90	0	0	
ELKHORN							
## 4	CC	0	0	51.00	0	0	
LAKE							
## 5	F	0	0	51.00	0	0	
LAKE							

## 6	F	0	0	51.00	0	0
LAKE						
## 7	S	0	0	51.00	0	1
RAWAH						
## 8	S	0	0	51.00	0	0
RAWAH						
## 9	S	0	0	51.00	0	0
RAWAH						
## 10	S	0	0	51.00	0	0
RAWAH						
## 11	S	0	0	51.00	0	0
RAWAH						
## 12	CC	0	0	51.00	0	0
RAWAH						
## 13	S	0	0	51.00	0	0
RAWAH						
## 14	S	0	0	51.00	0	0
RAWAH						
## 15	S	0	0	51.00	0	0
RAWAH						
## 16	CC	0	0	51.00	0	0
RAWAH						
## 17	CC	0	0	51.00	0	0
RAWAH						
## 18	CC	0	0	51.00	0	0
RAWAH						
## 19	CC	0	0	51.00	0	0
RAWAH						
## 20	CC	0	0	51.00	0	1
RAWAH						
## 21	F	0	0	51.00	0	1
RAWAH						
## 22	F	0	0	51.00	0	1
RAWAH						
## 23	F	0	0	51.00	0	0
RAWAH						
## 24	F	0	1	51.00	0	0
RAWAH						
## 25	CC	0	0	51.00	0	0
RAWAH						
## 26	CC	0	0	51.00	0	0
RAWAH						

## 27	CC	0	0	51.00	0	0
RAWAH						
## 28	CC	0	0	51.00	0	0
RAWAH						
## 29	CC	0	0	51.00	0	0
RAWAH						
## 30	CC	0	0	51.00	0	0
RAWAH						
## 31	CC	0	0	51.00	0	0
RAWAH						
## 32	F	0	0	51.00	0	0
RAWAH						
## 33	F	0	0	51.00	0	0
RAWAH						
## 34	F	0	0	51.00	0	0
RAWAH						
## 35	CC	0	1	51.00	0	0
RAWAH						
## 36	CC	0	1	51.00	0	0
RAWAH						
## 37	CV	0	0	51.00	0	0
RAWAH						
## 38	CV	0	0	51.00	0	0
RAWAH						
## 39	CV	0	0	51.00	0	0
RAWAH						
## 40	CC	0	0	51.00	0	0
RAWAH						
## 41	F	0	0	51.00	0	0
RAWAH						
## 42	F	0	0	51.00	0	0
RAWAH						
## 43	CC	0	0	51.00	0	1
RAWAH						
## 44	S	0	1	51.00	0	0
RAWAH						
## 45	S	0	0	51.00	0	0
RAWAH						
## 46	CC	0	0	51.00	0	0
RAWAH						
## 47	F	0	0	51.00	0	0
RAWAH						

## 48	F	0	0	51.00	0	0
RAWAH						
## 49	F	0	0	51.00	0	1
RAWAH						
## 50	F	0	0	51.00	0	0
RAWAH						
## 51	F	0	0	51.00	0	0
RAWAH						
## 52	F	0	0	51.00	0	0
RAWAH						
## 53	F	0	1	51.00	0	1
RAWAH						
## 54	F	0	1	51.00	0	0
RAWAH						
## 55	CV	0	0	51.00	0	0
RAWAH						
## 56	S	0	0	30.00	0	0
RAWAH						
## 57	S	0	1	51.00	0	0
SNOW						
## 58	CC	0	0	51.00	0	1
SNOW						
## 59	CC	0	0	51.00	0	1
SNOW						
## 60	CC	0	0	51.00	0	1
SNOW						
## 61	CC	0	0	51.00	0	0
SNOW						
## 62	CC	0	0	51.00	0	1
SNOW						
## 63	CC	0	0	51.00	0	0
SNOW						
## 64	CC	0	0	51.00	0	1
SNOW						
## 65	CC	0	0	51.00	0	0
SNOW						
## 66	CC	0	0	51.00	0	1
SNOW						
## 67	CC	0	0	51.00	0	1
SNOW						
## 68	CC	0	0	51.00	0	1
SNOW						

## 69	CC	0	0	51.00	0	0
SNOW						
## 70	S	0	1	51.00	0	0
SNOW						
## 71	F	0	0	51.00	0	0
SNOW						
## 72	S	0	0	51.00	0	1
SNOW						
## 73	S	0	0	51.00	0	1
SNOW						
## 74	S	0	0	51.00	0	1
SNOW						
## 75	S	0	0	51.00	0	0
SNOW						
## 76	S	0	0	51.00	0	0
SNOW						
## 77	S	0	0	51.00	0	0
SNOW						
## 78	S	0	0	51.00	0	1
SNOW						
## 79	S	0	0	51.00	0	1
SNOW						
## 80	S	0	0	51.00	0	1
SNOW						
## 81	S	0	0	51.00	0	1
SNOW						
## 82	S	0	0	51.00	0	1
SNOW						
## 83	S	0	0	51.00	0	1
SNOW						
## 84	S	0	0	51.00	0	1
SNOW						
## 85	S	0	0	51.00	0	1
SNOW						
## 86	CC	0	0	51.00	0	1
SNOW						
## 87	S	0	0	51.00	0	1
SNOW						
## 88	S	0	0	51.00	0	1
SNOW						
## 89	S	0	0	51.00	0	1
SNOW						

## 90	CC	0	1	51.00	0	1
LONG						
## 91	CC	0	1	51.00	0	0
LONG						
## 92	CV	0	0	51.00	0	0
MONTY						
## 93	CC	0	1	51.00	0	0
MONTY						
## 94	CC	0	0	51.00	0	1
MONTY						
## 95	CC	0	1	51.00	0	1
MONTY						
## 96	CC	0	0	51.00	0	1
MONTY						
## 97	CC	0	0	51.00	0	1
MONTY						
## 98	CC	0	0	51.00	0	1
MONTY						
## 99	CC	0	0	51.00	0	0
MONTY						
## 100	CC	0	0	51.00	0	0
MONTY						
## 101	CC	0	0	51.00	0	0
MONTY						
## 102	CC	0	0	51.00	0	0
MONTY						
## 103	CC	0	0	51.00	0	0
MONTY						
## 104	CC	0	0	51.00	0	0
MONTY						
## 105	CC	0	0	51.00	0	0
MONTY						
## 106	CC	0	0	51.00	0	1
MONTY						
## 107	S	0	0	51.00	0	0
MONTY						
## 108	S	0	0	51.00	0	0
MONTY						
## 109	CC	0	0	51.00	0	1
MONTY						
## 110	CC	0	0	51.00	0	1
MONTY						

## 111	CV	0	0	51.00	0	0
MONTY						
## 112	S	0	0	51.00	0	0
MONTY						
## 113	S	0	1	51.00	0	0
MONTY						
## 114	S	0	1	51.00	0	0
MONTY						
## 115	F	0	0	51.00	0	0
LONG						
## 116	F	0	1	51.00	0	0
LONG						
## 117	F	0	1	51.00	0	0
LONG						
## 118	F	0	1	51.00	0	0
LONG						
## 119	F	0	0	51.00	0	0
LONG						
## 120	F	0	0	51.00	0	0
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## 121	F	0	0	51.00	0	0
LONG						
## 122	F	0	0	51.00	0	0
LONG						
## 123	F	0	0	51.00	0	0
LONG						
## 124	CC	0	0	51.00	0	0
LONG						
## 125	CC	0	0	51.00	0	0
LONG						
## 126	CC	0	1	51.00	0	0
LONG						
## 127	CC	0	1	51.00	0	0
LONG						
## 128	F	0	0	51.00	0	0
LONG						
## 129	F	0	0	51.00	0	0
LONG						
## 130	CC	0	0	51.00	0	0
LONG						
## 131	F	0	0	51.00	0	0
LONG						

## 132	CC	0	0	51.00	0	0
LONG						
## 133	CC	0	0	51.00	0	0
LONG						
## 134	F	0	1	51.00	0	0
LONG						
## 135	F	0	0	51.00	0	0
LONG						
## 136	F	0	0	51.00	0	0
LONG						
## 137	CC	0	0	51.00	0	0
LONG						
## 138	CC	0	1	51.00	0	0
LONG						
## 139	CC	0	1	51.00	0	0
LONG						
## 140	CC	0	0	51.00	0	0
LONG						
## 141	CC	0	0	51.00	0	0
LONG						
## 142	S	0	0	51.00	0	0
LONG						
## 143	F	0	0	51.00	0	0
LONG						
## 144	CV	0	0	51.00	0	0
LONG						
## 145	CC	0	0	51.00	0	0
LONG						
## 146	CC	0	0	51.00	0	0
LONG						
## 147	S	0	0	51.00	0	1
LONG						
## 148	CV	0	0	51.00	0	0
LONG						
## 149	F	0	0	51.00	0	1
LONG						
## 150	F	0	0	51.00	0	0
LONG						
## 151	S	0	0	51.00	0	0
LONG						
## 152	S	0	0	51.00	0	0
LONG						



## 153	F	0	0	51.00	0	0
LONG						
## 154	F	0	0	51.00	0	1
LONG						
## 155	CC	0	0	51.00	0	0
LONG						
## 156	CV	0	0	51.00	0	0
LONG						
## 157	CC	0	0	51.00	0	0
LONG						
## 158	CC	0	0	51.00	0	0
LONG						
## 159	CC	0	0	51.00	0	0
LONG						
## 160	CC	0	0	51.00	0	1
LONG						
## 161	S	0	0	51.00	0	0
LONG						
## 162	CC	0	0	51.00	0	0
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## 163	F	0	0	51.00	0	1
LONG						
## 164	F	0	0	51.00	0	0
LONG						
## 165	S	0	0	51.00	0	0
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## 166	S	0	0	51.00	0	0
LONG						
## 167	S	0	0	51.00	0	1
LONG						
## 168	S	0	0	51.00	0	0
LONG						
## 169	S	0	0	51.00	0	1
LONG						
## 170	S	0	0	51.00	0	0
LONG						
## 171	F	0	0	7.00	0	0
FISH						
## 172	CC	0	0	12.00	0	0
FISH						
## 173	CC	0	0	19.00	0	0
FISH						

## 174	S	0	0	51.00	1	0
FISH						
## 175	S	0	0	0.10	0	0
CR69						
## 176	S	0	0	0.60	0	0
CR69						
## 177	F	0	0	51.00	0	0
CAM						
## 178	S	0	1	51.00	0	0
CAM						
## 179	S	0	0	51.00	0	0
CAM						
## 180	S	0	0	51.00	0	0
CAM						
## 181	S	0	0	51.00	0	0
CAM						
## 182	S	0	0	51.00	0	0
CAM						
## 183	S	0	0	51.00	0	0
CAM						
## 184	CC	0	0	51.00	0	0
CAM						
## 185	S	0	0	51.00	0	0
CAM						
## 186	S	0	0	51.00	0	0
CAM						
## 187	S	0	0	51.00	0	0
CAM						
## 188	S	0	1	51.00	0	0
CAM						
## 189	S	0	1	51.00	0	0
CAM						
## 190	S	0	1	51.00	0	0
CAM						
## 191	CC	0	1	51.00	0	0
CAM						
## 192	CC	0	1	51.00	0	0
CAM						
## 193	S	0	0	51.00	0	0
CAM						
## 194	S	0	0	51.00	0	0
CAM						

## 195	S	0	0	51.00	0	0
CAM						
## 196	S	0	0	51.00	0	0
CAM						
## 197	CC	0	0	51.00	0	0
CAM						
## 198	CC	0	1	51.00	0	0
CAM						
## 199	CC	0	1	51.00	0	1
CAM						
## 200	CV	0	0	51.00	0	0
CAM						
## 201	CC	0	0	51.00	0	0
CAM						
## 202	S	0	1	51.00	0	0
CAM						
## 203	F	0	1	51.00	0	0
CAM						
## 204	F	0	1	51.00	0	0
CAM						
## 205	S	0	0	51.00	0	0
CAM						
## 206	S	0	0	51.00	0	0
CAM						
## 207	CC	0	0	51.00	0	0
CAM						
## 208	CC	0	0	51.00	0	1
CAM						
## 209	S	0	0	51.00	0	0
CAM						
## 210	F	0	0	51.00	0	0
CAM						
## 211	CC	0	0	51.00	0	1
CAM						
## 212	F	0	0	51.00	0	0
CAM						
## 213	CC	0	0	51.00	0	0
CAM						
## 214	S	0	1	51.00	0	0
CAM						
## 215	CC	0	0	51.00	0	0
CAM						

## 216	S	0	0	51.00	0	0
CAM						
## 217	CC	0	0	51.00	0	0
CAM						
## 218	CC	0	0	51.00	0	0
CAM						
## 219	CC	0	0	51.00	0	0
CAM						
## 220	CC	0	0	51.00	0	0
CAM						
## 221	CC	0	0	51.00	0	1
CAM						
## 222	CC	0	0	51.00	0	0
CAM						
## 223	CC	0	0	51.00	0	0
CAM						
## 224	CC	0	0	51.00	0	0
CAM						
## 225	CV	0	0	51.00	0	0
CAM						
## 226	CC	0	0	51.00	0	0
CAM						
## 227	CC	0	0	51.00	0	0
CAM						
## 228	S	0	0	51.00	0	0
CAM						
## 229	CC	0	0	51.00	0	0
CAM						
## 230	S	0	0	51.00	0	0
CAM						
## 231	CC	0	0	51.00	0	0
CAM						
## 232	CC	0	0	51.00	0	0
CAM						
## 233	S	0	0	51.00	0	0
CAM						
## 234	CC	0	0	51.00	0	0
CAM						
## 235	F	0	0	51.00	0	1
CAM						
## 236	F	0	0	51.00	0	0
CAM						

## 237	F	0	0	51.00	0	1
CAM						
## 238	CC	0	0	51.00	0	0
CAM						
## 239	CV	0	0	51.00	0	0
CAM						
## 240	CC	0	0	51.00	0	0
CAM						
## 241	CC	0	0	51.00	0	0
CAM						
## 242	CC	0	0	51.00	0	0
CAM						
## 243	CC	0	0	51.00	0	0
CAM						
## 244	S	0	0	51.00	0	0
CAM						
## 245	S	0	0	51.00	0	0
CAM						
## 246	S	0	0	51.00	0	0
CAM						
## 247	S	0	0	51.00	0	0
CAM						
## 248	CV	0	0	51.00	0	0
CAM						
## 249	S	0	0	51.00	0	0
CAM						
## 250	S	0	0	51.00	0	0
CAM						
## 251	CC	0	0	51.00	0	0
CAM						
## 252	F	0	0	51.00	0	0
CAM						
## 253	F	0	0	51.00	0	0
CAM						
## 254	F	0	0	51.00	0	0
CAM						
## 255	F	0	0	51.00	0	0
CAM						
## 256	CC	0	0	51.00	0	0
CAM						
## 257	F	0	0	51.00	0	0
CAM						

## 258	F	0	0	51.00	0	0
CAM						
## 259	F	0	0	51.00	0	0
CAM						
## 260	F	0	0	51.00	0	0
CAM						
## 261	F	0	0	51.00	0	0
CAM						
## 262	CC	0	0	51.00	0	0
CAM						
## 263	CC	0	0	51.00	0	0
CAM						
## 264	CC	0	0	51.00	0	0
CAM						
## 265	S	0	0	51.00	0	0
CAM						
## 266	CC	0	0	51.00	0	0
CAM						
## 267	S	0	0	51.00	0	0
CAM						
## 268	CC	0	0	51.00	0	0
CAM						
## 269	S	0	0	51.00	0	0
CAM						
## 270	CC	0	0	51.00	0	0
CAM						
## 271	CV	0	0	51.00	0	0
CAM						
## 272	S	0	1	51.00	0	0
CAM						
## 273	CC	0	0	51.00	0	0
CAM						
## 274	CC	0	0	51.00	0	0
CAM						
## 275	CC	0	0	51.00	0	0
CAM						
## 276	CC	0	0	51.00	0	0
CAM						
## 277	CC	0	0	51.00	0	0
CAM						
## 278	CV	0	0	51.00	0	0
CAM						

## 279	CV	0	0	51.00	0	0
CAM						
## 280	CC	0	0	51.00	0	0
CAM						
## 281	CV	0	0	51.00	0	0
CAM						
## 282	CV	0	0	51.00	0	0
CAM						
## 283	CC	0	0	51.00	0	0
CAM						
## 284	CV	0	0	51.00	0	1
CAM						
## 285	CV	0	0	51.00	0	0
CAM						
## 286	S	0	0	51.00	0	0
CAM						
## 287	S	0	0	51.00	0	0
CAM						
## 288	S	0	0	51.00	0	0
CAM						
## 289	S	0	0	51.00	0	0
CAM						
## 290	F	0	0	51.00	0	0
CAM						
## 291	S	0	0	51.00	0	0
CAM						
## 292	S	0	0	51.00	0	0
CAM						
## 293	S	0	0	51.00	0	0
CAM						
## 294	S	0	0	51.00	0	0
CAM						
## 295	S	0	0	51.00	0	0
CAM						
## 296	S	0	0	51.00	0	0
CAM						
## 297	S	0	0	51.00	0	0
CAM						
## 298	S	0	0	51.00	0	0
CAM						
## 299	S	0	0	51.00	0	0
CAM						

## 300	S	0	0	51.00	0	0
CAM						
## 301	CC	0	0	51.00	0	1
CAM						
## 302	CC	0	0	51.00	0	0
CAM						
## 303	S	0	0	51.00	0	0
CAM						
## 304	CC	0	0	51.00	0	1
CAM						
## 305	CC	0	0	51.00	0	0
CAM						

##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing
Elevation	Slope				

## 1	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 2	1	30.0	ELKHORN	447029.0	4510687
2712	4				
## 3	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 4	5	20.5	LAKE	427646.0	4494147
2825	-5				
## 5	6	44.0	LAKE	427647.0	4493988
2835	-6				
## 6	6	18.0	LAKE	427647.0	4493988
2835	-6				
## 7	7	27.0	RAWAH	427082.0	4499706
2710	-7				
## 8	7	26.0	RAWAH	427082.0	4499706
2710	-7				
## 9	7	30.0	RAWAH	427082.0	4499706
2710	-7				
## 10	7	21.0	RAWAH	427082.0	4499706
2710	-7				
## 11	7	17.0	RAWAH	427082.0	4499706
2710	-7				
## 12	7	31.0	RAWAH	427082.0	4499706
2710	-7				
## 13	7	26.0	RAWAH	427082.0	4499706
2710	-7				
## 14	7	16.0	RAWAH	427082.0	4499706
2710	-7				



## 15		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 18		7	44.0	RAWAH	427082.0	4499706
2710	-7					
## 19		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 20		7	42.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	22.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	24.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 27		7	11.0	RAWAH	427082.0	4499706
2710	-7					
## 28		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 29		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 30		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 31		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 32		7	27.0	RAWAH	427082.0	4499706
2710	-7					
## 33		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 34		7	54.0	RAWAH	427082.0	4499706
2710	-7					
## 35		7	37.0	RAWAH	427082.0	4499706
2710	-7					

## 36		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 37		7	11.0	RAWAH	427082.0	4499706
2710	-7					
## 38		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 39		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 40		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 41		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 42		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 43		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 44		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 45		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 46		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 47		7	40.0	RAWAH	427082.0	4499706
2710	-7					
## 48		7	51.0	RAWAH	427082.0	4499706
2710	-7					
## 49		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 50		7	47.0	RAWAH	427082.0	4499706
2710	-7					
## 51		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 52		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 53		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 54		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 55		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 56		17	6.0	RAWAH	426806.8	4499771
2715	-6					

## 57	20	6.0	SNOW	426996.6	4492304
2959 -10					
## 58	20	12.0	SNOW	426996.6	4492304
2959 -10					
## 59	20	7.0	SNOW	426996.6	4492304
2959 -10					
## 60	20	8.0	SNOW	426996.6	4492304
2959 -10					
## 61	20	9.0	SNOW	426996.6	4492304
2959 -10					
## 62	20	9.5	SNOW	426996.6	4492304
2959 -10					
## 63	20	11.0	SNOW	426996.6	4492304
2959 -10					
## 64	20	11.0	SNOW	426996.6	4492304
2959 -10					
## 65	20	18.0	SNOW	426996.6	4492304
2959 -10					
## 66	20	12.0	SNOW	426996.6	4492304
2959 -10					
## 67	20	9.0	SNOW	426996.6	4492304
2959 -10					
## 68	20	8.5	SNOW	426996.6	4492304
2959 -10					
## 69	20	22.0	SNOW	426996.6	4492304
2959 -10					
## 70	20	4.5	SNOW	426996.6	4492304
2959 -10					
## 71	20	17.0	SNOW	426996.6	4492304
2959 -10					
## 72	20	11.5	SNOW	426996.6	4492304
2959 -10					
## 73	20	11.0	SNOW	426996.6	4492304
2959 -10					
## 74	20	8.0	SNOW	426996.6	4492304
2959 -10					
## 75	20	13.5	SNOW	426996.6	4492304
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## 76	20	1.5	SNOW	426996.6	4492304
2959 -10					
## 77	20	16.0	SNOW	426996.6	4492304
2959 -10					

## 78		20	22.5	SNOW	426996.6	4492304
2959	-10					
## 79		20	12.5	SNOW	426996.6	4492304
2959	-10					
## 80		20	17.5	SNOW	426996.6	4492304
2959	-10					
## 81		20	17.5	SNOW	426996.6	4492304
2959	-10					
## 82		20	11.5	SNOW	426996.6	4492304
2959	-10					
## 83		20	7.5	SNOW	426996.6	4492304
2959	-10					
## 84		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 85		20	23.5	SNOW	426996.6	4492304
2959	-10					
## 86		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 87		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 88		20	19.5	SNOW	426996.6	4492304
2959	-10					
## 89		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 90		21	21.5	LONG	429815.3	4490511
3029	-1					
## 91		21	5.0	LONG	429815.3	4490511
3029	-1					
## 92		23	9.5	MONTY	424655.0	4489019
3259	-13					
## 93		23	9.0	MONTY	424655.0	4489019
3259	-13					
## 94		23	7.9	MONTY	424655.0	4489019
3259	-13					
## 95		23	8.8	MONTY	424655.0	4489019
3259	-13					
## 96		23	8.0	MONTY	424655.0	4489019
3259	-13					
## 97		23	6.0	MONTY	424655.0	4489019
3259	-13					
## 98		23	14.0	MONTY	424655.0	4489019
3259	-13					

## 99	23	8.0	MONTY	424655.0	4489019
3259 -13					
## 100	23	1.0	MONTY	424655.0	4489019
3259 -13					
## 101	23	5.5	MONTY	424655.0	4489019
3259 -13					
## 102	23	6.9	MONTY	424655.0	4489019
3259 -13					
## 103	23	1.1	MONTY	424655.0	4489019
3259 -13					
## 104	23	1.2	MONTY	424655.0	4489019
3259 -13					
## 105	23	1.6	MONTY	424655.0	4489019
3259 -13					
## 106	23	4.3	MONTY	424655.0	4489019
3259 -13					
## 107	23	4.6	MONTY	424655.0	4489019
3259 -13					
## 108	23	5.0	MONTY	424655.0	4489019
3259 -13					
## 109	23	5.6	MONTY	424655.0	4489019
3259 -13					
## 110	23	7.2	MONTY	424655.0	4489019
3259 -13					
## 111	23	5.7	MONTY	424655.0	4489019
3259 -13					
## 112	23	3.3	MONTY	424655.0	4489019
3259 -13					
## 113	23	7.4	MONTY	424655.0	4489019
3259 -13					
## 114	24	6.1	MONTY	424640.0	4488778
3199 -12					
## 115	25	4.5	LONG	431465.0	4490417
3068 -7					
## 116	25	6.8	LONG	431465.0	4490417
3068 -7					
## 117	25	8.1	LONG	431465.0	4490417
3068 -7					
## 118	25	6.1	LONG	431465.0	4490417
3068 -7					
## 119	25	6.0	LONG	431465.0	4490417
3068 -7					

## 120		25	2.6	LONG	431465.0	4490417
3068	-7					
## 121		25	3.0	LONG	431465.0	4490417
3068	-7					
## 122		25	5.0	LONG	431465.0	4490417
3068	-7					
## 123		25	1.5	LONG	431465.0	4490417
3068	-7					
## 124		25	9.6	LONG	431465.0	4490417
3068	-7					
## 125		25	7.9	LONG	431465.0	4490417
3068	-7					
## 126		25	3.0	LONG	431465.0	4490417
3068	-7					
## 127		25	8.6	LONG	431465.0	4490417
3068	-7					
## 128		25	5.3	LONG	431465.0	4490417
3068	-7					
## 129		25	5.0	LONG	431465.0	4490417
3068	-7					
## 130		25	10.2	LONG	431465.0	4490417
3068	-7					
## 131		25	3.1	LONG	431465.0	4490417
3068	-7					
## 132		25	5.1	LONG	431465.0	4490417
3068	-7					
## 133		25	4.1	LONG	431465.0	4490417
3068	-7					
## 134		25	7.9	LONG	431465.0	4490417
3068	-7					
## 135		25	4.6	LONG	431465.0	4490417
3068	-7					
## 136		25	7.1	LONG	431465.0	4490417
3068	-7					
## 137		25	7.0	LONG	431465.0	4490417
3068	-7					
## 138		25	2.0	LONG	431465.0	4490417
3068	-7					
## 139		25	5.0	LONG	431465.0	4490417
3068	-7					
## 140		25	15.6	LONG	431465.0	4490417
3068	-7					

## 141	25	24.9	LONG	431465.0	4490417
3068 -7					
## 142	25	3.9	LONG	431465.0	4490417
3068 -7					
## 143	25	4.0	LONG	431465.0	4490417
3068 -7					
## 144	25	8.4	LONG	431465.0	4490417
3068 -7					
## 145	25	3.5	LONG	431465.0	4490417
3068 -7					
## 146	25	9.9	LONG	431465.0	4490417
3068 -7					
## 147	25	2.9	LONG	431465.0	4490417
3068 -7					
## 148	25	7.5	LONG	431465.0	4490417
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## 149	25	4.0	LONG	431465.0	4490417
3068 -7					
## 150	25	7.0	LONG	431465.0	4490417
3068 -7					
## 151	25	4.0	LONG	431465.0	4490417
3068 -7					
## 152	25	9.5	LONG	431465.0	4490417
3068 -7					
## 153	26	13.2	LONG	431200.0	4490450
3099 -48					
## 154	26	4.7	LONG	431200.0	4490450
3099 -48					
## 155	26	5.7	LONG	431200.0	4490450
3099 -48					
## 156	26	15.9	LONG	431200.0	4490450
3099 -48					
## 157	26	7.1	LONG	431200.0	4490450
3099 -48					
## 158	26	1.6	LONG	431200.0	4490450
3099 -48					
## 159	26	1.1	LONG	431200.0	4490450
3099 -48					
## 160	26	7.4	LONG	431200.0	4490450
3099 -48					
## 161	26	16.5	LONG	431200.0	4490450
3099 -48					

## 162	27	5.5	LONG	430929.0	4490476
3090 -11					
## 163	27	5.6	LONG	430929.0	4490476
3090 -11					
## 164	27	6.5	LONG	430929.0	4490476
3090 -11					
## 165	27	9.0	LONG	430929.0	4490476
3090 -11					
## 166	27	10.2	LONG	430929.0	4490476
3090 -11					
## 167	27	22.4	LONG	430929.0	4490476
3090 -11					
## 168	27	4.4	LONG	430929.0	4490476
3090 -11					
## 169	27	14.9	LONG	430929.0	4490476
3090 -11					
## 170	27	4.6	LONG	430929.0	4490476
3090 -11					
## 171	28	15.0	FISH	454709.0	4496418
2571 -5					
## 172	28	20.0	FISH	454709.0	4496418
2571 -5					
## 173	28	17.0	FISH	454709.0	4496418
2571 -5					
## 174	30	35.1	FISH	455545.0	4496202
2462 -5					
## 175	33	9.5	CR69	451026.0	4505247
2596 -10					
## 176	33	25.9	CR69	451026.0	4505247
2596 -10					
## 177	34	1.1	CAM	434425.0	4485996
3106 -9					
## 178	34	0.9	CAM	434425.0	4485996
3106 -9					
## 179	34	0.5	CAM	434425.0	4485996
3106 -9					
## 180	34	13.1	CAM	434425.0	4485996
3106 -9					
## 181	34	16.3	CAM	434425.0	4485996
3106 -9					
## 182	34	34.9	CAM	434425.0	4485996
3106 -9					



## 183		34	4.0	CAM	434425.0	4485996
3106	-9					
## 184		34	26.7	CAM	434425.0	4485996
3106	-9					
## 185		34	2.1	CAM	434425.0	4485996
3106	-9					
## 186		34	3.3	CAM	434425.0	4485996
3106	-9					
## 187		34	4.8	CAM	434425.0	4485996
3106	-9					
## 188		34	4.7	CAM	434425.0	4485996
3106	-9					
## 189		34	6.1	CAM	434425.0	4485996
3106	-9					
## 190		34	2.4	CAM	434425.0	4485996
3106	-9					
## 191		34	58.4	CAM	434425.0	4485996
3106	-9					
## 192		34	0.8	CAM	434425.0	4485996
3106	-9					
## 193		34	2.8	CAM	434425.0	4485996
3106	-9					
## 194		34	30.5	CAM	434425.0	4485996
3106	-9					
## 195		34	1.5	CAM	434425.0	4485996
3106	-9					
## 196		34	3.4	CAM	434425.0	4485996
3106	-9					
## 197		35	31.2	CAM	434642.0	4485999
3093	-5					
## 198		35	4.6	CAM	434642.0	4485999
3093	-5					
## 199		35	24.8	CAM	434642.0	4485999
3093	-5					
## 200		36	4.1	CAM	434021.0	4485004
3020	-10					
## 201		36	1.1	CAM	434021.0	4485004
3020	-10					
## 202		36	5.4	CAM	434021.0	4485004
3020	-10					
## 203		36	5.1	CAM	434021.0	4485004
3020	-10					

## 204	36	2.9	CAM	434021.0	4485004
3020 -10					
## 205	36	9.9	CAM	434021.0	4485004
3020 -10					
## 206	36	13.2	CAM	434021.0	4485004
3020 -10					
## 207	36	2.3	CAM	434021.0	4485004
3020 -10					
## 208	36	18.1	CAM	434021.0	4485004
3020 -10					
## 209	36	8.7	CAM	434021.0	4485004
3020 -10					
## 210	36	21.7	CAM	434021.0	4485004
3020 -10					
## 211	36	20.4	CAM	434021.0	4485004
3020 -10					
## 212	36	9.6	CAM	434021.0	4485004
3020 -10					
## 213	36	3.7	CAM	434021.0	4485004
3020 -10					
## 214	36	6.1	CAM	434021.0	4485004
3020 -10					
## 215	38	3.2	CAM	434173.0	4486246
3154 -4					
## 216	38	4.1	CAM	434173.0	4486246
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Transect.B						
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NA						
## 2	88			CC		NA
NA						

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NA			
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165			
## 5	173	CC	18
108			
## 6	173	CC	18
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## 95	194	F/S	46
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## 107	194	F/S	46
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## 111	194	F/S	46
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## 112	194	F/S	46
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## 113	194	F/S	46
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## 196	194	F/S	274
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## 199	90	CC	72
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## 305	190	F/S	56
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## 174	51	51.00
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## 305	51	51.00

#by small CWD

Scwdp

##	SITE..	seedling	SITE.NAME	Transect	Subplot	Height..cm.	Substrate
## 1	7	32	RAWAH	B	14-16	24.0	A
F							
## 2	7	50	RAWAH	B	42-44	37.0	B/M
F							
## 3	7	51	RAWAH	B	42-44	29.0	M
CC							
## 4	7	72	RAWAH	B	42-44	26.0	B
CC							
## 5	7	88	RAWAH	B	48-50	17.0	M
CV							
## 6	7	89	RAWAH	B	48-50	26.0	M
CV							
## 7	8	91	RAWAH	A	0-2	9.0	M
S							
## 8	8	92	RAWAH	A	40-42	24.0	L
F							
## 9	11	96	BLUE	A	20-22	29.0	A/M
S							
## 10	11	97	BLUE	A	26-28	25.0	A/M
CC							
## 11	14	102	RES	B	16-18	10.0	M
CC							
## 12	20	109	SNOW	A	2-4	39.0	A/B
S							
## 13	20	110	SNOW	A	2-4	19.0	A/B
S							
## 14	20	111	SNOW	A	2-4	3.0	A/B
S							
## 15	20	112	SNOW	A	2-4	10.0	A/B
F							
## 16	20	113	SNOW	A	2-4	7.0	A/B
S							
## 17	20	114	SNOW	A	2-4	12.0	A/B

F								
##	18	20	115	SNOW	A	2-4	18.0	A/B
F								
##	19	20	119	SNOW	A	4-6	6.0	M
S								
##	20	20	132	SNOW	B	10-12	4.5	B
CV								
##	21	20	133	SNOW	B	10-12	7.0	A/B
F								
##	22	20	134	SNOW	B	10-12	15.0	B/M
CV								
##	23	20	136	SNOW	B	12-14	12.0	B/M
F								
##	24	20	138	SNOW	B	16-18	15.5	A
CC								
##	25	20	139	SNOW	B	16-18	17.0	A
F								
##	26	20	160	SNOW	B	18-20	9.5	A
CC								
##	27	21	169	LONG	A	24-26	23.5	A
CC								
##	28	21	170	LONG	A	42-44	21.5	A/L
F								
##	29	21	174	LONG	A	48-50	5.0	B
CC								
##	30	21	176	LONG	B	20-22	7.0	A/L
CC								
##	31	23	179	MONTY	A	32-34	9.0	A
CC								
##	32	23	181	MONTY	A	32-34	8.8	A
CV								
##	33	23	183	MONTY	A	32-34	15.5	A
CV								
##	34	23	206	MONTY	A	38-40	7.4	A
S								
##	35	24	207	MONTY	A	22-24	4.8	A
F								
##	36	24	208	MONTY	B	16-18	6.1	A/L
CC								
##	37	25	211	LONG	A	2-4	6.8	L
CC								
##	38	25	212	LONG	A	4-6	8.1	A/L

CC								
##	39	25	213	LONG	A	6-8	6.1	B
CV								
##	40	25	224	LONG	A	6-8	3.0	B
CV								
##	41	25	225	LONG	A	6-8	8.6	B
CC								
##	42	25	234	LONG	A	8-10	7.9	A/B
CC								
##	43	25	243	LONG	A	12-14	2.0	A
CC								
##	44	25	244	LONG	A	12-14	5.0	B
S								
##	45	26	270	LONG	A	16-18	18.1	B/M
S								
##	46	26	283	LONG	B	40-42	23.0	A/B
CC								
##	47	26	284	LONG	B	40-42	12.5	A
CC								
##	48	26	285	LONG	B	40-42	5.0	A
CC								
##	49	27	290	LONG	B	0-2	19.8	A
F								
##	50	34	314	CAM	A	20-22	0.9	A
CC								
##	51	34	319	CAM	A	32-34	1.2	A
CV								
##	52	34	326	CAM	A	40-42	4.7	A/L
CC								
##	53	34	331	CAM	A	44-46	6.1	A
S								
##	54	34	332	CAM	A	46-48	2.4	A/L
CC								
##	55	34	333	CAM	A	48-50	58.4	A
F								
##	56	34	334	CAM	A	48-50	0.8	A/L
CC								
##	57	35	343	CAM	B	2-4	16.4	A
CC								
##	58	35	344	CAM	B	4-6	4.6	A
F								
##	59	35	345	CAM	B	4-6	24.8	A/B

CV								
## 60	35	349	CAM	B	48-50	3.5	B/M	
F								
## 61	36	354	CAM	A	30-32	4.9	A	
F								
## 62	36	357	CAM	A	40-42	5.4	M	
CC								
## 63	36	358	CAM	A	42-44	5.1	B	
CC								
## 64	36	359	CAM	A	42-44	2.9	B	
CV								
## 65	36	362	CAM	A	44-46	6.4	B/M	
CC								
## 66	36	391	CAM	B	42-44	6.1	A/B	
CC								
## 67	38	460	CAM	A	32-34	8.2	B	
S								
## 68	38	461	CAM	A	32-34	10.6	B	
S								
## 69	38	463	CAM	A	32-34	2.2	B	
F								
## 70	38	469	CAM	A	34-36	15.0	B	
F								
## 71	38	514	CAM	B	30-32	4.4	A/B	
F								
## 72	38	515	CAM	B	30-32	1.5	B	
F								
## 73	38	519	CAM	B	34-36	25.9	B	
CV								
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse		
site.name								
## 1	F	0	1	51	0	0		
RAWAH								
## 2	CC	0	1	51	0	0		
RAWAH								
## 3	CC	0	1	51	0	0		
RAWAH								
## 4	S	0	1	51	0	0		
RAWAH								
## 5	F	0	1	51	0	1		
RAWAH								
## 6	F	0	1	51	0	0		



RAWAH						
## 7	S	1	1	51	0	0
RAWAH						
## 8	S	1	1	51	0	0
RAWAH						
## 9	S	1	1	51	0	0
BLUE						
## 10	CV	1	1	51	0	0
BLUE						
## 11	S	1	1	51	0	0
RES						
## 12	CC	1	1	51	0	0
SNOW						
## 13	CC	1	1	51	0	0
SNOW						
## 14	CC	1	1	51	0	0
SNOW						
## 15	CC	1	1	51	0	1
SNOW						
## 16	CC	1	1	51	0	1
SNOW						
## 17	CC	1	1	51	0	1
SNOW						
## 18	CC	1	1	51	0	1
SNOW						
## 19	S	0	1	51	0	0
SNOW						
## 20	S	0	1	51	0	0
SNOW						
## 21	CC	1	1	51	0	0
SNOW						
## 22	CC	1	1	51	0	0
SNOW						
## 23	CC	1	1	51	0	1
SNOW						
## 24	CC	1	1	51	0	0
SNOW						
## 25	S	1	1	51	0	0
SNOW						
## 26	F	1	1	51	0	1
SNOW						
## 27	CC	1	1	51	0	0

LONG						
## 28	CC	0	1	51	0	1
LONG						
## 29	CC	0	1	51	0	0
LONG						
## 30	CC	1	1	40	0	0
LONG						
## 31	CC	0	1	51	0	0
MONTY						
## 32	CC	0	1	51	0	1
MONTY						
## 33	F	1	1	51	0	0
MONTY						
## 34	S	0	1	51	0	0
MONTY						
## 35	CC	1	1	51	0	1
MONTY						
## 36	S	0	1	51	0	0
MONTY						
## 37	F	0	1	51	0	0
LONG						
## 38	F	0	1	51	0	0
LONG						
## 39	F	0	1	51	0	0
LONG						
## 40	CC	0	1	51	0	0
LONG						
## 41	CC	0	1	51	0	0
LONG						
## 42	F	0	1	51	0	0
LONG						
## 43	CC	0	1	51	0	0
LONG						
## 44	CC	0	1	51	0	0
LONG						
## 45	CC	1	1	51	0	0
LONG						
## 46	CC	1	1	51	0	0
LONG						
## 47	CC	1	1	51	0	0
LONG						
## 48	CC	1	1	51	0	0

LONG							
## 49	CC	1	1	51	0	0	
LONG							
## 50	S	0	1	51	0	0	
CAM							
## 51	S	1	1	51	0	0	
CAM							
## 52	S	0	1	51	0	0	
CAM							
## 53	S	0	1	51	0	0	
CAM							
## 54	S	0	1	51	0	0	
CAM							
## 55	CC	0	1	51	0	0	
CAM							
## 56	CC	0	1	51	0	0	
CAM							
## 57	S	1	1	51	0	0	
CAM							
## 58	CC	0	1	51	0	0	
CAM							
## 59	CC	0	1	51	0	1	
CAM							
## 60	CC	1	1	51	0	0	
CAM							
## 61	CV	1	1	51	0	0	
CAM							
## 62	S	0	1	51	0	0	
CAM							
## 63	F	0	1	51	0	0	
CAM							
## 64	F	0	1	51	0	0	
CAM							
## 65	CC	1	1	51	0	0	
CAM							
## 66	S	0	1	51	0	0	
CAM							
## 67	CC	1	1	51	0	0	
CAM							
## 68	CC	1	1	51	0	0	
CAM							
## 69	CC	1	1	51	0	0	

CAM						
## 70	S	1	1	51	0	0
CAM						
## 71	F	1	1	51	0	0
CAM						
## 72	F	1	1	51	0	0
CAM						
## 73	S	0	1	51	0	0
CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
	Elevation	Slope				
## 1	7	24.0	RAWAH	427082.0	4499706	
2710	-7					
## 2	7	37.0	RAWAH	427082.0	4499706	
2710	-7					
## 3	7	29.0	RAWAH	427082.0	4499706	
2710	-7					
## 4	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 5	7	17.0	RAWAH	427082.0	4499706	
2710	-7					
## 6	7	26.0	RAWAH	427082.0	4499706	
2710	-7					
## 7	8	9.0	RAWAH	426956.0	4499540	
2724	-9					
## 8	8	24.0	RAWAH	426956.0	4499540	
2724	-9					
## 9	11	29.0	BLUE	427118.0	4493949	
2901	-10					
## 10	11	25.0	BLUE	427118.0	4493949	
2901	-10					
## 11	14	10.0	RES	426126.0	4490180	
3040	-7					
## 12	20	39.0	SNOW	426996.6	4492304	
2959	-10					
## 13	20	19.0	SNOW	426996.6	4492304	
2959	-10					
## 14	20	3.0	SNOW	426996.6	4492304	
2959	-10					
## 15	20	10.0	SNOW	426996.6	4492304	
2959	-10					
## 16	20	7.0	SNOW	426996.6	4492304	

2959	-10					
## 17		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 18		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 19		20	6.0	SNOW	426996.6	4492304
2959	-10					
## 20		20	4.5	SNOW	426996.6	4492304
2959	-10					
## 21		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 22		20	15.0	SNOW	426996.6	4492304
2959	-10					
## 23		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 24		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 25		20	17.0	SNOW	426996.6	4492304
2959	-10					
## 26		20	9.5	SNOW	426996.6	4492304
2959	-10					
## 27		21	23.5	LONG	429815.3	4490511
3029	-1					
## 28		21	21.5	LONG	429815.3	4490511
3029	-1					
## 29		21	5.0	LONG	429815.3	4490511
3029	-1					
## 30		21	7.0	LONG	429815.3	4490511
3029	-1					
## 31		23	9.0	MONTY	424655.0	4489019
3259	-13					
## 32		23	8.8	MONTY	424655.0	4489019
3259	-13					
## 33		23	15.5	MONTY	424655.0	4489019
3259	-13					
## 34		23	7.4	MONTY	424655.0	4489019
3259	-13					
## 35		24	4.8	MONTY	424640.0	4488778
3199	-12					
## 36		24	6.1	MONTY	424640.0	4488778
3199	-12					
## 37		25	6.8	LONG	431465.0	4490417

3068	-7					
## 38		25	8.1	LONG	431465.0	4490417
3068	-7					
## 39		25	6.1	LONG	431465.0	4490417
3068	-7					
## 40		25	3.0	LONG	431465.0	4490417
3068	-7					
## 41		25	8.6	LONG	431465.0	4490417
3068	-7					
## 42		25	7.9	LONG	431465.0	4490417
3068	-7					
## 43		25	2.0	LONG	431465.0	4490417
3068	-7					
## 44		25	5.0	LONG	431465.0	4490417
3068	-7					
## 45		26	18.1	LONG	431200.0	4490450
3099	-48					
## 46		26	23.0	LONG	431200.0	4490450
3099	-48					
## 47		26	12.5	LONG	431200.0	4490450
3099	-48					
## 48		26	5.0	LONG	431200.0	4490450
3099	-48					
## 49		27	19.8	LONG	430929.0	4490476
3090	-11					
## 50		34	0.9	CAM	434425.0	4485996
3106	-9					
## 51		34	1.2	CAM	434425.0	4485996
3106	-9					
## 52		34	4.7	CAM	434425.0	4485996
3106	-9					
## 53		34	6.1	CAM	434425.0	4485996
3106	-9					
## 54		34	2.4	CAM	434425.0	4485996
3106	-9					
## 55		34	58.4	CAM	434425.0	4485996
3106	-9					
## 56		34	0.8	CAM	434425.0	4485996
3106	-9					
## 57		35	16.4	CAM	434642.0	4485999
3093	-5					
## 58		35	4.6	CAM	434642.0	4485999

3093	-5					
## 59		35	24.8	CAM	434642.0	4485999
3093	-5					
## 60		35	3.5	CAM	434642.0	4485999
3093	-5					
## 61		36	4.9	CAM	434021.0	4485004
3020	-10					
## 62		36	5.4	CAM	434021.0	4485004
3020	-10					
## 63		36	5.1	CAM	434021.0	4485004
3020	-10					
## 64		36	2.9	CAM	434021.0	4485004
3020	-10					
## 65		36	6.4	CAM	434021.0	4485004
3020	-10					
## 66		36	6.1	CAM	434021.0	4485004
3020	-10					
## 67		38	8.2	CAM	434173.0	4486246
3154	-4					
## 68		38	10.6	CAM	434173.0	4486246
3154	-4					
## 69		38	2.2	CAM	434173.0	4486246
3154	-4					
## 70		38	15.0	CAM	434173.0	4486246
3154	-4					
## 71		38	4.4	CAM	434173.0	4486246
3154	-4					
## 72		38	1.5	CAM	434173.0	4486246
3154	-4					
## 73		38	25.9	CAM	434173.0	4486246
3154	-4					
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
Transect.B						
## 1	30		F			252
162						
## 2	30		F			252
162						
## 3	30		F			252
162						
## 4	30		F			252
162						
## 5	30		F			252

162			
## 6	30	F	252
162			
## 7	340	F	60
330			
## 8	340	F	60
330			
## 9	92	F	290
20			
## 10	92	F	290
20			
## 11	342	F	276
186			
## 12	12	CV	228
312			
## 13	12	CV	228
312			
## 14	12	CV	228
312			
## 15	12	CV	228
312			
## 16	12	CV	228
312			
## 17	12	CV	228
312			
## 18	12	CV	228
312			
## 19	12	CV	228
312			
## 20	12	CV	228
312			
## 21	12	CV	228
312			
## 22	12	CV	228
312			
## 23	12	CV	228
312			
## 24	12	CV	228
312			
## 25	12	CV	228
312			
## 26	12	CV	228



312			
## 27	298	CC	288
210			
## 28	298	CC	288
210			
## 29	298	CC	288
210			
## 30	298	CC	288
210			
## 31	194	F/S	46
316			
## 32	194	F/S	46
316			
## 33	194	F/S	46
316			
## 34	194	F/S	46
316			
## 35	160	F/S	184
90			
## 36	160	F/S	184
90			
## 37	130	F	222
310			
## 38	130	F	222
310			
## 39	130	F	222
310			
## 40	130	F	222
310			
## 41	130	F	222
310			
## 42	130	F	222
310			
## 43	130	F	222
310			
## 44	130	F	222
310			
## 45	240	CC	210
120			
## 46	240	CC	210
120			
## 47	240	CC	210

120			
## 48	240	CC	210
120			
## 49	120	S	280
110			
## 50	194	F/S	274
180			
## 51	194	F/S	274
180			
## 52	194	F/S	274
180			
## 53	194	F/S	274
180			
## 54	194	F/S	274
180			
## 55	194	F/S	274
180			
## 56	194	F/S	274
180			
## 57	90	CC	72
164			
## 58	90	CC	72
164			
## 59	90	CC	72
164			
## 60	90	CC	72
164			
## 61	216	F/S	166
74			
## 62	216	F/S	166
74			
## 63	216	F/S	166
74			
## 64	216	F/S	166
74			
## 65	216	F/S	166
74			
## 66	216	F/S	166
74			
## 67	190	F/S	56
142			
## 68	190	F/S	56

142			
## 69	190	F/S	56
142			
## 70	190	F/S	56
142			
## 71	190	F/S	56
142			
## 72	190	F/S	56
142			
## 73	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51		25
## 2	51		25
## 3	51		25
## 4	51		25
## 5	51		25
## 6	51		25
## 7	51		51
## 8	51		51
## 9	51		51
## 10	51		51
## 11	51		51
## 12	51		51
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## 39	51	51
## 40	51	51
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## 44	51	51
## 45	51	51
## 46	51	51
## 47	51	51
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## 68	51	51

## 69	51	51
## 70	51	51
## 71	51	51
## 72	51	51
## 73	51	51

Scwda

##	SITE.. seedling	SITE.NAME	Transect	Subplot	Height..cm.		
Substrate	Small.Topo						
## 1	1	1	ELKHORN	A	8-10	25.0	
L	F						
## 2	1	2	ELKHORN	A	38-40	30.0	
M	F						
## 3	1	3	ELKHORN	B	12-14	25.0	
M	F						
## 4	5	7	LAKE	A	14-16	20.5	
M	CC						
## 5	6	8	LAKE	A	2-4	44.0	
M	CC						
## 6	6	9	LAKE	A	14-16	15.0	
A	F						
## 7	6	10	LAKE	A	14-16	6.0	
A	CC						
## 8	6	11	LAKE	A	14-16	3.5	
A	F						
## 9	6	12	LAKE	A	16-18	39.0	
M	S						
## 10	6	13	LAKE	A	16-18	18.0	
M	F						
## 11	7	14	RAWAH	A	0-2	27.0	B/
M	CC						
## 12	7	15	RAWAH	A	0-2	26.0	B/
M	F						
## 13	7	16	RAWAH	A	0-2	30.0	B/
M	F						
## 14	7	17	RAWAH	A	0-2	21.0	B/
M	F						
## 15	7	18	RAWAH	A	0-2	17.0	B/
M	S						
## 16	7	19	RAWAH	A	0-2	31.0	B/
M	S						

## 17	7	20	RAWAH	A	0-2	26.0	B/
M	CC						
## 18	7	21	RAWAH	A	0-2	16.0	B/
M	S						
## 19	7	22	RAWAH	A	0-2	17.0	B/
M	CC						
## 20	7	23	RAWAH	A	0-2	28.0	B/
M	CC						
## 21	7	24	RAWAH	A	0-2	28.0	B/
M	CC						
## 22	7	25	RAWAH	A	0-2	44.0	B/
M	CC						
## 23	7	26	RAWAH	A	0-2	15.0	
M	CC						
## 24	7	27	RAWAH	A	0-2	42.0	
M	CC						
## 25	7	28	RAWAH	A	16-18	21.0	A/
M	F						
## 26	7	29	RAWAH	B	14-16	22.0	
A	F						
## 27	7	30	RAWAH	B	14-16	19.0	
A	F						
## 28	7	31	RAWAH	B	14-16	26.0	
A	F						
## 29	7	33	RAWAH	B	16-18	19.0	
A	CC						
## 30	7	34	RAWAH	B	16-18	18.0	
A	CC						
## 31	7	35	RAWAH	B	16-18	11.0	
A	CC						
## 32	7	36	RAWAH	B	30-32	21.0	B/
M	F						
## 33	7	37	RAWAH	B	30-32	31.0	B/
M	F						
## 34	7	38	RAWAH	B	30-32	35.0	B/
M	F						
## 35	7	39	RAWAH	B	30-32	31.0	B/
M	F						
## 36	7	40	RAWAH	B	34-36	23.0	
A	S						
## 37	7	41	RAWAH	B	34-36	13.0	
A	CV						

## 38	7	42	RAWAH	B	34-36	29.0	
A	CV						
## 39	7	43	RAWAH	B	36-38	27.0	
M	CC						
## 40	7	44	RAWAH	B	36-38	14.0	
A	F						
## 41	7	45	RAWAH	B	36-38	20.0	
A	F						
## 42	7	46	RAWAH	B	38-40	26.0	
M	F						
## 43	7	47	RAWAH	B	38-40	30.0	
M	F						
## 44	7	48	RAWAH	B	38-40	54.0	
M	F						
## 45	7	49	RAWAH	B	40-42	26.0	
A	CC						
## 46	7	52	RAWAH	B	42-44	18.0	B/
M	CC						
## 47	7	53	RAWAH	B	42-44	17.0	B/
M	CC						
## 48	7	54	RAWAH	B	42-44	18.0	B/
M	CC						
## 49	7	55	RAWAH	B	42-44	15.0	B/
M	CC						
## 50	7	56	RAWAH	B	42-44	25.0	B/
M	CC						
## 51	7	57	RAWAH	B	42-44	39.0	B/
M	CC						
## 52	7	58	RAWAH	B	42-44	28.0	B/
M	CC						
## 53	7	59	RAWAH	B	42-44	35.0	
M	CC						
## 54	7	60	RAWAH	B	42-44	11.0	
B	CV						
## 55	7	61	RAWAH	B	42-44	15.0	
B	CV						
## 56	7	62	RAWAH	B	42-44	8.0	
B	CV						
## 57	7	63	RAWAH	B	42-44	30.0	
W	S						
## 58	7	64	RAWAH	B	42-44	30.0	
W	S						

## 59	7	65	RAWAH	B	42-44	39.0	
W	S						
## 60	7	66	RAWAH	B	42-44	25.0	B/
M	CC						
## 61	7	67	RAWAH	B	42-44	16.0	
M	F						
## 62	7	68	RAWAH	B	42-44	25.0	
W	F						
## 63	7	69	RAWAH	B	42-44	25.0	
M	F						
## 64	7	70	RAWAH	B	42-44	17.0	
M	F						
## 65	7	71	RAWAH	B	42-44	26.0	
M	F						
## 66	7	73	RAWAH	B	42-44	16.0	B/
M	S						
## 67	7	74	RAWAH	B	42-44	20.0	
M	S						
## 68	7	75	RAWAH	B	42-44	40.0	
M	F						
## 69	7	76	RAWAH	B	44-46	34.0	B/
M	S						
## 70	7	77	RAWAH	B	44-46	60.0	B/
M	S						
## 71	7	78	RAWAH	B	44-46	45.0	B/
M	CC						
## 72	7	79	RAWAH	B	44-46	51.0	
M	F						
## 73	7	80	RAWAH	B	46-48	26.0	
M	F						
## 74	7	81	RAWAH	B	46-48	29.0	
M	F						
## 75	7	82	RAWAH	B	46-48	8.0	
M	CC						
## 76	7	83	RAWAH	B	46-48	43.0	
M	S						
## 77	7	84	RAWAH	B	46-48	15.0	
M	S						
## 78	7	85	RAWAH	B	46-48	47.0	
M	CC						
## 79	7	86	RAWAH	B	46-48	32.0	
M	CC						



## 80	7	87	RAWAH	B	46-48	34.0	
B	F						
## 81	7	90	RAWAH	B	48-50	32.0	
M	CV						
## 82	8	93	RAWAH	B	40-42	9.0	
A	F						
## 83	12	98	BLUE	A	0-2	28.0	
M	S						
## 84	12	99	BLUE	A	0-2	16.0	
M	S						
## 85	12	100	BLUE	A	0-2	6.0	
M	S						
## 86	17	105	RAWAH	B	40-42	6.0	
M	CC						
## 87	19	107	RAWAH	A	0-2	14.0	
A	CC						
## 88	19	108	RAWAH	A	0-2	1.5	
A	CC						
## 89	20	116	SNOW	A	2-4	15.5	A/
B	F						
## 90	20	117	SNOW	A	2-4	20.0	A/
B	CC						
## 91	20	118	SNOW	A	2-4	22.0	A/
B	CV						
## 92	20	120	SNOW	A	4-6	12.0	A/
B	S						
## 93	20	121	SNOW	A	4-6	7.0	A/
B	S						
## 94	20	122	SNOW	A	4-6	8.0	A/
B	S						
## 95	20	123	SNOW	A	4-6	9.0	A/
B	CV						
## 96	20	124	SNOW	A	4-6	9.5	
A	CV						
## 97	20	125	SNOW	A	4-6	11.0	
A	CV						
## 98	20	126	SNOW	A	4-6	11.0	
B	S						
## 99	20	127	SNOW	A	4-6	18.0	
B	CC						
## 100	20	128	SNOW	A	4-6	12.0	A/
B	S						

## 101	20	129	SNOW	A	4-6	9.0	
B	S						
## 102	20	130	SNOW	A	4-6	8.5	A/
B	S						
## 103	20	131	SNOW	A	8-10	22.0	
A	F						
## 104	20	135	SNOW	B	12-14	27.5	
B	F						
## 105	20	137	SNOW	B	14-16	17.0	L/
M	F						
## 106	20	140	SNOW	B	16-18	6.5	
A	F						
## 107	20	141	SNOW	B	16-18	4.0	
A	F						
## 108	20	142	SNOW	B	18-20	20.5	
A	CC						
## 109	20	143	SNOW	B	18-20	18.5	A/
B	CC						
## 110	20	144	SNOW	B	18-20	5.5	
A	CC						
## 111	20	145	SNOW	B	18-20	11.5	
A	CC						
## 112	20	146	SNOW	B	18-20	11.0	
A	CC						
## 113	20	147	SNOW	B	18-20	8.0	
A	CC						
## 114	20	148	SNOW	B	18-20	13.5	
A	S						
## 115	20	149	SNOW	B	18-20	1.5	
A	CC						
## 116	20	150	SNOW	B	18-20	16.0	
A	S						
## 117	20	151	SNOW	B	18-20	22.5	
A	CC						
## 118	20	152	SNOW	B	18-20	12.5	
A	S						
## 119	20	153	SNOW	B	18-20	17.5	
A	CC						
## 120	20	154	SNOW	B	18-20	17.5	
A	CC						
## 121	20	155	SNOW	B	18-20	11.5	
A	S						

## 122	20	156	SNOW	B	18-20	7.5	
B	CV						
## 123	20	157	SNOW	B	18-20	12.0	
B	CV						
## 124	20	158	SNOW	B	18-20	23.5	
B	CC						
## 125	20	159	SNOW	B	18-20	18.5	A/
B	CC						
## 126	20	161	SNOW	B	18-20	13.5	
A	CV						
## 127	20	162	SNOW	B	18-20	18.0	
A	S						
## 128	20	163	SNOW	B	18-20	31.5	
A	CV						
## 129	20	164	SNOW	B	20-22	19.5	
M	S						
## 130	20	165	SNOW	B	20-22	22.0	
A	CV						
## 131	20	166	SNOW	B	20-22	18.5	
A	S						
## 132	20	167	SNOW	B	20-22	29.5	
A	CC						
## 133	20	168	SNOW	B	50-52	4.5	
A	CC						
## 134	21	171	LONG	A	48-50	21.0	A/
B	CC						
## 135	21	172	LONG	A	48-50	5.0	A/
B	S						
## 136	21	173	LONG	A	48-50	10.0	
A	CC						
## 137	21	175	LONG	A	48-50	14.5	A/
L	CC						
## 138	22	177	MONTY	B	10-12	22.5	
A	S						
## 139	23	178	MONTY	A	32-34	9.5	
A	S						
## 140	23	180	MONTY	A	32-34	7.9	
A	CC						
## 141	23	182	MONTY	A	32-34	8.0	
A	CV						
## 142	23	184	MONTY	A	32-34	6.0	
A	CV						

## 143	23	185	MONTY	A	32-34	14.0	
A	CV						
## 144	23	186	MONTY	A	34-36	8.0	A/
L	F						
## 145	23	187	MONTY	A	34-36	1.0	
A	S						
## 146	23	188	MONTY	A	34-36	5.5	
A	CC						
## 147	23	189	MONTY	A	34-36	6.9	
A	CC						
## 148	23	190	MONTY	A	34-36	1.1	
A	CC						
## 149	23	191	MONTY	A	34-36	1.2	
A	S						
## 150	23	192	MONTY	A	34-36	1.6	
A	S						
## 151	23	193	MONTY	A	34-36	4.3	A/
L	CV						
## 152	23	194	MONTY	A	34-36	4.6	A/
L	CV						
## 153	23	195	MONTY	A	34-36	5.0	A/
L	CV						
## 154	23	196	MONTY	A	34-36	4.0	
A	CC						
## 155	23	197	MONTY	A	34-36	4.0	
A	CV						
## 156	23	198	MONTY	A	36-38	5.6	
A	CV						
## 157	23	199	MONTY	A	36-38	7.2	
A	CV						
## 158	23	200	MONTY	A	36-38	5.7	
A	S						
## 159	23	201	MONTY	A	36-38	7.4	
A	CV						
## 160	23	202	MONTY	A	36-38	2.1	
A	F						
## 161	23	203	MONTY	A	36-38	3.3	
A	S						
## 162	23	204	MONTY	A	36-38	4.8	
A	CC						
## 163	23	205	MONTY	A	36-38	5.0	
A	CC						

## 164	25	209	LONG	A	0-2	4.2
A	F					
## 165	25	210	LONG	A	2-4	4.5
L	F					
## 166	25	214	LONG	A	6-8	6.0
B	CC					
## 167	25	215	LONG	A	6-8	2.6
B	CC					
## 168	25	216	LONG	A	6-8	3.0
B	CC					
## 169	25	217	LONG	A	6-8	5.0
B	CC					
## 170	25	218	LONG	A	6-8	1.5
B	F					
## 171	25	219	LONG	A	6-8	3.9
B	F					
## 172	25	220	LONG	A	6-8	5.5
B	F					
## 173	25	221	LONG	A	6-8	2.6
B	F					
## 174	25	222	LONG	A	6-8	9.6
B	CC					
## 175	25	223	LONG	A	6-8	7.9
B	CC					
## 176	25	226	LONG	A	6-8	5.3
B	CV					
## 177	25	227	LONG	A	6-8	5.0
B	CC					
## 178	25	228	LONG	A	6-8	10.2
B	CV					
## 179	25	229	LONG	A	6-8	3.1
B	CC					
## 180	25	230	LONG	A	6-8	5.1
B	S					
## 181	25	231	LONG	A	6-8	4.1
B	S					
## 182	25	232	LONG	A	8-10	7.1
M	CC					
## 183	25	233	LONG	A	8-10	13.6
M	S					
## 184	25	235	LONG	A	8-10	4.6
B	CV					

## 185	25	236	LONG	A	8-10	5.8	
B	CC						
## 186	25	237	LONG	A	8-10	7.1	
M	CV						
## 187	25	238	LONG	A	8-10	3.2	
M	CC						
## 188	25	239	LONG	A	10-12	7.0	B/
M	F						
## 189	25	240	LONG	A	12-14	11.0	B/
M	F						
## 190	25	241	LONG	A	12-14	11.9	A/
B	S						
## 191	25	242	LONG	A	12-14	6.8	A/
B	S						
## 192	25	245	LONG	A	12-14	15.6	
B	F						
## 193	25	246	LONG	A	12-14	24.9	
B	S						
## 194	25	247	LONG	A	12-14	3.9	
B	S						
## 195	25	248	LONG	A	12-14	4.0	
B	CC						
## 196	25	249	LONG	A	12-14	8.4	
B	CC						
## 197	25	250	LONG	A	12-14	3.9	
B	CC						
## 198	25	251	LONG	A	12-14	3.5	
M	CC						
## 199	25	252	LONG	A	12-14	9.9	
M	S						
## 200	25	253	LONG	A	14-16	3.5	
A	F						
## 201	25	254	LONG	A	14-16	2.9	
A	F						
## 202	25	255	LONG	A	14-16	7.5	
B	S						
## 203	25	256	LONG	A	16-18	8.8	
M	F						
## 204	25	257	LONG	A	16-18	9.0	
B	S						
## 205	25	258	LONG	A	16-18	6.5	
B	F						

##	206	25	259	LONG	A	16-18	12.0	
B		S						
##	207	25	260	LONG	A	16-18	10.0	B/
M		S						
##	208	25	261	LONG	A	16-18	4.0	A/
B		CC						
##	209	25	262	LONG	A	16-18	4.0	A/
B		CC						
##	210	25	263	LONG	A	16-18	3.0	A/
B		S						
##	211	25	264	LONG	A	16-18	2.0	A/
B		S						
##	212	25	265	LONG	A	20-22	6.5	
A		S						
##	213	25	266	LONG	A	24-26	4.0	
M		F						
##	214	25	267	LONG	B	36-38	7.0	
M		S						
##	215	25	268	LONG	B	36-38	4.0	A/
L		F						
##	216	25	269	LONG	B	36-38	9.5	
M		S						
##	217	26	271	LONG	A	24-26	11.4	
A		CC						
##	218	26	272	LONG	A	24-26	13.2	
A		S						
##	219	26	273	LONG	A	26-28	4.7	
A		F						
##	220	26	274	LONG	A	26-28	5.7	
B		CV						
##	221	26	275	LONG	A	26-28	15.9	
A		F						
##	222	26	276	LONG	A	26-28	7.1	
A		F						
##	223	26	277	LONG	A	30-32	9.4	A/
L		F						
##	224	26	278	LONG	A	36-38	1.6	
A		F						
##	225	26	279	LONG	A	36-38	15.3	
A		F						
##	226	26	280	LONG	A	36-38	1.1	
A		S						

## 227	26	281	LONG	A	40-42	7.4	
A	F						
## 228	26	282	LONG	B	0-2	16.5	
A	S						
## 229	27	286	LONG	A	0-2	5.5	A/
B	F						
## 230	27	287	LONG	A	0-2	20.1	
B	S						
## 231	27	288	LONG	A	0-2	5.6	
A	F						
## 232	27	289	LONG	A	0-2	6.5	
A	F						
## 233	27	291	LONG	B	0-2	9.0	A/
B	S						
## 234	27	292	LONG	B	0-2	10.2	A/
B	CC						
## 235	27	293	LONG	B	0-2	22.4	
A	S						
## 236	27	294	LONG	B	0-2	4.4	
B	S						
## 237	27	295	LONG	B	0-2	14.9	
B	CV						
## 238	27	296	LONG	B	0-2	5.1	
B	S						
## 239	27	297	LONG	B	32-34	4.6	
A	S						
## 240	27	298	LONG	B	34-36	15.5	
A	S						
## 241	27	299	LONG	B	34-36	2.0	
A	F						
## 242	27	300	LONG	B	34-36	1.0	
A	F						
## 243	27	301	LONG	B	34-36	0.5	
A	F						
## 244	28	302	FISH	A	24-26	15.0	
M	F						
## 245	28	303	FISH	B	16-18	20.0	
A	F						
## 246	28	304	FISH	B	44-46	17.0	
A	CC						
## 247	30	306	FISH	A	34-36	16.0	
L	F						



## 248	30	307	FISH	B	44-46	35.1	
L	S						
## 249	33	310	CR69	A	42-44	9.5	
M	S						
## 250	33	311	CR69	B	38-40	25.9	
M	F						
## 251	34	312	CAM	A	14-16	15.0	
A	S						
## 252	34	313	CAM	A	18-20	1.1	
M	CC						
## 253	34	315	CAM	A	30-32	0.5	
A	CC						
## 254	34	316	CAM	A	30-32	13.1	
A	CC						
## 255	34	317	CAM	A	30-32	16.3	
A	CC						
## 256	34	318	CAM	A	30-32	34.9	
A	CC						
## 257	34	320	CAM	A	34-36	4.0	
A	S						
## 258	34	321	CAM	A	34-36	26.7	
A	CC						
## 259	34	322	CAM	A	36-38	2.2	
A	CC						
## 260	34	323	CAM	A	40-42	2.1	
A	CC						
## 261	34	324	CAM	A	40-42	3.3	
A	CC						
## 262	34	325	CAM	A	40-42	4.8	
A	CC						
## 263	34	327	CAM	A	42-44	4.3	A/
L	CC						
## 264	34	328	CAM	A	42-44	1.3	A/
L	CC						
## 265	34	329	CAM	A	42-44	1.5	
A	F						
## 266	34	330	CAM	A	42-44	4.4	
A	CC						
## 267	34	335	CAM	B	2-4	11.1	
A	F						
## 268	34	336	CAM	B	10-12	2.8	
A	F						

## 269	34	337	CAM	B	12-14	30.5	A/
L	CV						
## 270	34	338	CAM	B	14-16	1.6	
A	CC						
## 271	34	339	CAM	B	20-22	3.7	
A	CC						
## 272	34	340	CAM	B	38-40	1.5	A/
L	CC						
## 273	34	341	CAM	B	40-42	3.4	
A	S						
## 274	35	342	CAM	A	14-16	31.2	
A	CC						
## 275	35	346	CAM	B	14-16	4.4	B/
M	CC						
## 276	35	347	CAM	B	14-16	10.4	A/
B	CC						
## 277	35	348	CAM	B	20-22	9.7	
A	F						
## 278	36	350	CAM	A	6-8	28.7	
A	S						
## 279	36	351	CAM	A	8-10	9.9	
A	F						
## 280	36	352	CAM	A	8-10	18.8	
A	CC						
## 281	36	353	CAM	A	24-26	18.0	
A	CC						
## 282	36	355	CAM	A	30-32	4.1	A/
W	CV						
## 283	36	356	CAM	A	34-36	1.1	
A	F						
## 284	36	360	CAM	A	42-44	9.9	
B	S						
## 285	36	361	CAM	A	42-44	13.2	
B	CC						
## 286	36	363	CAM	A	46-48	2.3	
M	CC						
## 287	36	364	CAM	A	48-50	18.1	B/
M	CC						
## 288	36	365	CAM	A	48-50	13.1	B/
M	CC						
## 289	36	366	CAM	A	48-50	1.4	B/
M	CC						

## 290	36	367	CAM	A	48-50	8.7	B/
M	CC						
## 291	36	368	CAM	A	48-50	8.5	B/
M	CV						
## 292	36	369	CAM	B	34-36	6.0	
B	S						
## 293	36	370	CAM	B	34-36	6.6	
B	S						
## 294	36	371	CAM	B	34-36	4.8	
B	CC						
## 295	36	372	CAM	B	34-36	2.9	
B	CC						
## 296	36	373	CAM	B	34-36	13.8	
B	CV						
## 297	36	374	CAM	B	36-38	16.9	
B	CC						
## 298	36	375	CAM	B	36-38	13.0	B/
L	CC						
## 299	36	376	CAM	B	36-38	10.5	
B	CC						
## 300	36	377	CAM	B	36-38	30.3	A/
B	F						
## 301	36	378	CAM	B	36-38	29.6	
B	CV						
## 302	36	379	CAM	B	36-38	21.7	
B	F						
## 303	36	380	CAM	B	36-38	20.4	
A	CC						
## 304	36	381	CAM	B	36-38	9.6	
A	F						
## 305	36	382	CAM	B	36-38	7.9	
B	F						
## 306	36	383	CAM	B	36-38	5.5	
B	F						
## 307	36	384	CAM	B	36-38	13.3	
A	S						
## 308	36	385	CAM	B	36-38	3.4	
B	S						
## 309	36	386	CAM	B	36-38	3.6	
B	S						
## 310	36	387	CAM	B	40-42	18.6	
B	CC						

## 311	36	388	CAM	B	40-42	15.9	
B	CC						
## 312	36	389	CAM	B	40-42	11.5	
A	S						
## 313	36	390	CAM	B	38-40	3.7	
B	CC						
## 314	36	392	CAM	B	42-44	12.4	
B	S						
## 315	36	393	CAM	B	42-44	11.0	
B	CC						
## 316	36	394	CAM	B	42-44	13.4	
B	CC						
## 317	36	395	CAM	B	42-44	10.8	
A	S						
## 318	36	396	CAM	B	42-44	18.2	A/
B	S						
## 319	36	397	CAM	B	42-44	14.6	
B	S						
## 320	36	398	CAM	B	42-44	15.1	A/
B	S						
## 321	36	399	CAM	B	42-44	4.4	
A	S						
## 322	36	400	CAM	B	42-44	11.0	
A	CC						
## 323	36	401	CAM	B	42-44	3.1	
B	S						
## 324	36	402	CAM	B	48-50	19.8	
A	CC						
## 325	38	404	CAM	A	0-2	3.2	
B	F						
## 326	38	405	CAM	A	0-2	18.6	A/
B	CV						
## 327	38	406	CAM	A	4-6	4.1	
B	CC						
## 328	38	407	CAM	A	4-6	4.9	
B	CC						
## 329	38	408	CAM	A	4-6	7.9	
B	S						
## 330	38	409	CAM	A	4-6	4.5	
B	F						
## 331	38	410	CAM	A	4-6	4.7	
B	S						

## 332	38	411	CAM	A	4-6	17.1	
B	S						
## 333	38	412	CAM	A	4-6	9.1	
B	CC						
## 334	38	413	CAM	A	4-6	3.5	
B	CC						
## 335	38	414	CAM	A	10-12	10.4	
B	CC						
## 336	38	415	CAM	A	10-12	6.3	
B	S						
## 337	38	416	CAM	A	10-12	11.7	A/
B	F						
## 338	38	417	CAM	A	10-12	10.3	
B	S						
## 339	38	418	CAM	A	10-12	5.2	
B	S						
## 340	38	419	CAM	A	12-14	3.8	
B	CC						
## 341	38	420	CAM	A	12-14	4.6	
B	S						
## 342	38	421	CAM	A	12-14	5.5	
B	CV						
## 343	38	422	CAM	A	12-14	6.2	
B	S						
## 344	38	423	CAM	A	12-14	7.6	
B	CC						
## 345	38	424	CAM	A	12-14	5.2	
B	CC						
## 346	38	425	CAM	A	12-14	7.5	A/
B	F						
## 347	38	426	CAM	A	12-14	4.4	
B	F						
## 348	38	427	CAM	A	14-16	22.6	
B	C						
## 349	38	428	CAM	A	14-16	4.7	
B	CV						
## 350	38	429	CAM	A	16-18	8.4	
B	CC						
## 351	38	430	CAM	A	16-18	18.3	
B	CC						
## 352	38	431	CAM	A	16-18	6.1	
B	CC						

## 353	38	432	CAM	A	16-18	4.2	
B	CC						
## 354	38	433	CAM	A	16-18	10.5	
B	S						
## 355	38	434	CAM	A	16-18	8.2	
B	CC						
## 356	38	435	CAM	A	16-18	8.1	
B	F						
## 357	38	436	CAM	A	16-18	5.3	
B	S						
## 358	38	437	CAM	A	16-18	5.1	
B	F						
## 359	38	438	CAM	A	16-18	5.2	
B	S						
## 360	38	439	CAM	A	20-22	45.7	
B	S						
## 361	38	440	CAM	A	20-22	14.6	
B	F						
## 362	38	441	CAM	A	20-22	3.6	
B	CC						
## 363	38	442	CAM	A	20-22	7.2	
B	CC						
## 364	38	443	CAM	A	20-22	5.2	
B	S						
## 365	38	444	CAM	A	22-24	15.0	
B	CC						
## 366	38	445	CAM	A	22-24	12.0	
B	S						
## 367	38	446	CAM	A	22-24	9.6	
B	S						
## 368	38	447	CAM	A	22-24	9.4	A/
B	S						
## 369	38	448	CAM	A	22-24	8.3	
A	S						
## 370	38	449	CAM	A	22-24	4.2	
B	CC						
## 371	38	450	CAM	A	22-24	3.1	
A	CC						
## 372	38	451	CAM	A	22-24	8.1	A/
B	S						
## 373	38	452	CAM	A	22-24	7.5	
B	CC						

## 374	38	453	CAM	A	22-24	2.0	A/
B	S						
## 375	38	454	CAM	A	22-24	9.6	
A	CC						
## 376	38	455	CAM	A	26-28	1.9	
A	CV						
## 377	38	456	CAM	A	26-28	26.2	
A	S						
## 378	38	457	CAM	A	32-34	9.6	
B	CV						
## 379	38	458	CAM	A	32-34	10.4	
B	F						
## 380	38	459	CAM	A	32-34	19.1	
B	CV						
## 381	38	462	CAM	A	32-34	9.9	
B	S						
## 382	38	464	CAM	A	32-34	3.0	
B	S						
## 383	38	465	CAM	A	32-34	6.5	
B	CC						
## 384	38	466	CAM	A	32-34	11.4	
B	S						
## 385	38	467	CAM	A	32-34	6.3	
B	CV						
## 386	38	468	CAM	A	34-36	9.8	
B	CC						
## 387	38	470	CAM	A	34-36	7.5	
B	CC						
## 388	38	471	CAM	A	34-36	2.9	
B	F						
## 389	38	472	CAM	A	34-36	16.9	
B	CC						
## 390	38	473	CAM	A	34-36	13.0	
B	S						
## 391	38	474	CAM	A	34-36	15.0	
B	CC						
## 392	38	475	CAM	A	34-36	12.2	
B	S						
## 393	38	476	CAM	A	34-36	11.5	
B	F						
## 394	38	477	CAM	A	34-36	12.8	
B	F						

## 395	38	478	CAM	A	34-36	17.6
B	F					
## 396	38	479	CAM	A	34-36	8.3
B	F					
## 397	38	480	CAM	A	34-36	3.8
B	F					
## 398	38	481	CAM	A	34-36	16.0
B	CC					
## 399	38	482	CAM	A	36-38	18.4
B	S					
## 400	38	483	CAM	A	42-44	4.6
B	CC					
## 401	38	484	CAM	A	48-50	6.2
B	F					
## 402	38	485	CAM	A	48-50	9.5
B	F					
## 403	38	486	CAM	A	48-50	3.2
B	F					
## 404	38	487	CAM	A	48-50	5.1
B	CC					
## 405	38	488	CAM	A	48-50	4.0
B	CC					
## 406	38	489	CAM	A	48-50	6.9
B	S					
## 407	38	490	CAM	B	4-6	10.4
A	F					
## 408	38	491	CAM	B	4-6	6.7
A	S					
## 409	38	492	CAM	B	4-6	14.7
B	S					
## 410	38	493	CAM	B	4-6	17.9
A	CC					
## 411	38	494	CAM	B	6-8	7.1
A	CC					
## 412	38	495	CAM	B	18-20	16.0
L	S					
## 413	38	496	CAM	B	20-22	8.5
B	S					
## 414	38	497	CAM	B	20-22	11.5
B	S					
## 415	38	498	CAM	B	20-22	7.9
B	F					



## 416	38	499	CAM	B	20-22	10.3	
B	S						
## 417	38	500	CAM	B	20-22	10.5	
B	F						
## 418	38	501	CAM	B	20-22	7.3	
B	CC						
## 419	38	502	CAM	B	20-22	10.8	
B	S						
## 420	38	503	CAM	B	20-22	11.7	
B	S						
## 421	38	504	CAM	B	20-22	10.0	
B	S						
## 422	38	505	CAM	B	22-24	9.5	
A	F						
## 423	38	506	CAM	B	22-24	2.9	
B	F						
## 424	38	507	CAM	B	28-30	8.7	
B	S						
## 425	38	508	CAM	B	28-30	19.7	
B	F						
## 426	38	509	CAM	B	28-30	6.9	
B	S						
## 427	38	510	CAM	B	28-30	1.2	
B	F						
## 428	38	511	CAM	B	30-32	1.0	
B	F						
## 429	38	512	CAM	B	30-32	0.5	
B	F						
## 430	38	513	CAM	B	28-30	14.6	A/
B	S						
## 431	38	516	CAM	B	32-34	46.6	
B	CC						
## 432	38	517	CAM	B	34-36	14.3	
B	CC						
## 433	38	518	CAM	B	34-36	12.1	
B	S						
## 434	38	520	CAM	B	34-36	6.8	
B	F						
## 435	38	521	CAM	B	34-36	23.3	
B	S						
## 436	38	522	CAM	B	34-36	22.8	
B	S						

## 437	38	523	CAM	B	34-36	15.0
B	S					
## 438	38	524	CAM	B	34-36	13.9
B	F					
## 439	38	525	CAM	B	36-38	7.1
B	F					
## 440	38	526	CAM	B	36-38	6.9
B	F					
## 441	38	527	CAM	B	36-38	6.5
B	S					
## 442	38	528	CAM	B	38-40	10.3
B	S					
## 443	38	529	CAM	B	38-40	11.8
B	S					
## 444	38	530	CAM	B	38-40	3.5
B	S					
## 445	38	531	CAM	B	38-40	5.4
B	S					
## 446	38	532	CAM	B	38-40	6.4
B	CC					
## 447	38	533	CAM	B	38-40	7.0
B	CC					
## 448	38	534	CAM	B	40-42	10.9
B	F					
## 449	38	535	CAM	B	40-42	8.8
B	F					
## 450	38	536	CAM	B	40-42	9.0
B	F					
## 451	38	537	CAM	B	40-42	13.6
B	S					
## 452	38	538	CAM	B	40-42	5.0
B	F					
## 453	38	539	CAM	B	40-42	8.2
B	F					
## 454	38	540	CAM	B	40-42	3.1
B	F					
## 455	38	541	CAM	B	42-44	8.1
B	CV					
## 456	38	542	CAM	B	42-44	2.5
B	F					
## 457	38	543	CAM	B	42-44	6.1
B	CC					

## 458	38	544	CAM	B	42-44	4.9	
B	F						
## 459	38	545	CAM	B	42-44	11.5	
B	CC						
## 460	38	546	CAM	B	42-44	2.5	
B	F						
## 461	38	547	CAM	B	42-44	9.4	
B	F						
## 462	38	548	CAM	B	42-44	3.7	
B	CC						
## 463	38	549	CAM	B	42-44	8.0	
B	S						
## 464	38	550	CAM	B	42-44	7.6	
B	S						
## 465	38	551	CAM	B	42-44	23.2	
B	S						
## 466	38	552	CAM	B	42-44	22.5	
B	S						
## 467	38	553	CAM	B	44-46	3.9	
B	CC						
## 468	38	554	CAM	B	44-46	7.0	
B	CC						
## 469	38	555	CAM	B	44-46	5.1	
B	CC						
## 470	38	556	CAM	B	46-48	3.1	
B	CC						
## 471	38	557	CAM	B	50-52	11.6	
B	S						
## 472	38	558	CAM	B	50-52	11.8	A/
B	CC						
## 473	38	559	CAM	B	50-52	3.4	
A	CC						
## 474	38	560	CAM	B	50-52	19.0	
B	S						
## 475	38	561	CAM	B	50-52	6.5	
A	CC						
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	CC	0	0	1.25	0	0	
ELKHORN							
## 2	F	0	0	1.30	0	0	
ELKHORN							

## 3	F	0	0	0.90	0	0
ELKHORN						
## 4	CC	0	0	51.00	0	0
LAKE						
## 5	F	0	0	51.00	0	0
LAKE						
## 6	F	1	0	51.00	0	1
LAKE						
## 7	F	1	0	51.00	0	0
LAKE						
## 8	F	1	0	51.00	0	0
LAKE						
## 9	S	1	0	51.00	0	1
LAKE						
## 10	F	0	0	51.00	0	0
LAKE						
## 11	S	0	0	51.00	0	1
RAWAH						
## 12	S	0	0	51.00	0	0
RAWAH						
## 13	S	0	0	51.00	0	0
RAWAH						
## 14	S	0	0	51.00	0	0
RAWAH						
## 15	S	0	0	51.00	0	0
RAWAH						
## 16	CC	0	0	51.00	0	0
RAWAH						
## 17	S	0	0	51.00	0	0
RAWAH						
## 18	S	0	0	51.00	0	0
RAWAH						
## 19	S	0	0	51.00	0	0
RAWAH						
## 20	CC	0	0	51.00	0	0
RAWAH						
## 21	CC	0	0	51.00	0	0
RAWAH						
## 22	CC	0	0	51.00	0	0
RAWAH						
## 23	CC	0	0	51.00	0	0
RAWAH						

## 24	CC	0	0	51.00	0	1
RAWAH						
## 25	F	1	0	51.00	0	0
RAWAH						
## 26	F	0	0	51.00	0	1
RAWAH						
## 27	F	0	0	51.00	0	1
RAWAH						
## 28	F	0	0	51.00	0	0
RAWAH						
## 29	CC	0	0	51.00	0	0
RAWAH						
## 30	CC	0	0	51.00	0	0
RAWAH						
## 31	CC	0	0	51.00	0	0
RAWAH						
## 32	CC	0	0	51.00	0	0
RAWAH						
## 33	CC	0	0	51.00	0	0
RAWAH						
## 34	CC	0	0	51.00	0	0
RAWAH						
## 35	CC	0	0	51.00	0	0
RAWAH						
## 36	F	1	0	51.00	0	0
RAWAH						
## 37	S	1	0	51.00	0	0
RAWAH						
## 38	S	1	0	51.00	0	0
RAWAH						
## 39	F	0	0	51.00	0	0
RAWAH						
## 40	F	1	0	51.00	0	0
RAWAH						
## 41	F	1	0	51.00	0	1
RAWAH						
## 42	F	1	0	51.00	0	0
RAWAH						
## 43	F	0	0	51.00	0	0
RAWAH						
## 44	F	0	0	51.00	0	0
RAWAH						

## 45	F	1	0	51.00	0	0
RAWAH						
## 46	CC	1	0	51.00	0	0
RAWAH						
## 47	CC	1	0	51.00	0	0
RAWAH						
## 48	CC	1	0	51.00	0	0
RAWAH						
## 49	CC	1	0	51.00	0	0
RAWAH						
## 50	CC	1	0	51.00	0	0
RAWAH						
## 51	CC	1	0	51.00	0	0
RAWAH						
## 52	CC	1	0	51.00	0	0
RAWAH						
## 53	CC	1	0	51.00	0	0
RAWAH						
## 54	CV	0	0	51.00	0	0
RAWAH						
## 55	CV	0	0	51.00	0	0
RAWAH						
## 56	CV	0	0	51.00	0	0
RAWAH						
## 57	F	1	0	51.00	0	0
RAWAH						
## 58	S	1	0	51.00	0	1
RAWAH						
## 59	S	1	0	51.00	0	1
RAWAH						
## 60	CC	1	0	51.00	0	1
RAWAH						
## 61	CC	0	0	51.00	0	0
RAWAH						
## 62	F	1	0	51.00	0	0
RAWAH						
## 63	F	0	0	51.00	0	0
RAWAH						
## 64	F	0	0	51.00	0	0
RAWAH						
## 65	CC	0	0	51.00	0	1
RAWAH						

## 66	S	0	0	51.00	0	0
RAWAH						
## 67	CC	0	0	51.00	0	0
RAWAH						
## 68	F	0	0	51.00	0	0
RAWAH						
## 69	S	1	0	51.00	0	1
RAWAH						
## 70	CC	1	0	51.00	0	0
RAWAH						
## 71	S	1	0	51.00	0	0
RAWAH						
## 72	F	0	0	51.00	0	0
RAWAH						
## 73	CC	1	0	51.00	0	0
RAWAH						
## 74	F	0	0	51.00	0	1
RAWAH						
## 75	F	1	0	51.00	0	1
RAWAH						
## 76	F	1	0	51.00	0	0
RAWAH						
## 77	F	1	0	51.00	0	0
RAWAH						
## 78	F	0	0	51.00	0	0
RAWAH						
## 79	F	0	0	51.00	0	0
RAWAH						
## 80	F	0	0	51.00	0	0
RAWAH						
## 81	CV	0	0	51.00	0	0
RAWAH						
## 82	S	1	0	51.00	0	0
RAWAH						
## 83	S	1	0	51.00	0	0
BLUE						
## 84	S	1	0	51.00	0	0
BLUE						
## 85	S	1	0	51.00	0	0
BLUE						
## 86	S	0	0	30.00	0	0
RAWAH						

## 87	F	1	0	51.00	0	0
RAWAH						
## 88	CC	1	0	51.00	0	0
RAWAH						
## 89	CC	1	0	51.00	0	1
SNOW						
## 90	CC	1	0	51.00	0	0
SNOW						
## 91	CC	1	0	51.00	0	1
SNOW						
## 92	CC	0	0	51.00	0	1
SNOW						
## 93	CC	0	0	51.00	0	1
SNOW						
## 94	CC	0	0	51.00	0	1
SNOW						
## 95	CC	0	0	51.00	0	0
SNOW						
## 96	CC	0	0	51.00	0	1
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## 97	CC	0	0	51.00	0	0
SNOW						
## 98	CC	0	0	51.00	0	1
SNOW						
## 99	CC	0	0	51.00	0	0
SNOW						
## 100	CC	0	0	51.00	0	1
SNOW						
## 101	CC	0	0	51.00	0	1
SNOW						
## 102	CC	0	0	51.00	0	1
SNOW						
## 103	CC	0	0	51.00	0	0
SNOW						
## 104	CC	1	0	51.00	0	0
SNOW						
## 105	F	0	0	51.00	0	0
SNOW						
## 106	CC	1	0	51.00	0	0
SNOW						
## 107	CC	1	0	51.00	0	0
SNOW						



## 108	S	1	0	51.00	0	0
SNOW						
## 109	S	1	0	51.00	0	0
SNOW						
## 110	S	1	0	51.00	0	0
SNOW						
## 111	S	0	0	51.00	0	1
SNOW						
## 112	S	0	0	51.00	0	1
SNOW						
## 113	S	0	0	51.00	0	1
SNOW						
## 114	S	0	0	51.00	0	0
SNOW						
## 115	S	0	0	51.00	0	0
SNOW						
## 116	S	0	0	51.00	0	0
SNOW						
## 117	S	0	0	51.00	0	1
SNOW						
## 118	S	0	0	51.00	0	1
SNOW						
## 119	S	0	0	51.00	0	1
SNOW						
## 120	S	0	0	51.00	0	1
SNOW						
## 121	S	0	0	51.00	0	1
SNOW						
## 122	S	0	0	51.00	0	1
SNOW						
## 123	S	0	0	51.00	0	1
SNOW						
## 124	S	0	0	51.00	0	1
SNOW						
## 125	CC	0	0	51.00	0	1
SNOW						
## 126	S	1	0	51.00	0	1
SNOW						
## 127	S	0	0	51.00	0	1
SNOW						
## 128	S	1	0	51.00	0	1
SNOW						

## 129	S	0	0	51.00	0	1
SNOW						
## 130	S	0	0	51.00	0	1
SNOW						
## 131	S	1	0	51.00	0	1
SNOW						
## 132	S	1	0	51.00	0	1
SNOW						
## 133	CC	1	0	51.00	0	0
SNOW						
## 134	F	1	0	51.00	0	1
LONG						
## 135	CC	1	0	51.00	0	0
LONG						
## 136	CC	1	0	51.00	0	0
LONG						
## 137	F	1	0	51.00	0	0
LONG						
## 138	S	1	0	51.00	0	0
MONTY						
## 139	CV	0	0	51.00	0	0
MONTY						
## 140	CC	0	0	51.00	0	1
MONTY						
## 141	CC	0	0	51.00	0	1
MONTY						
## 142	CC	0	0	51.00	0	1
MONTY						
## 143	CC	0	0	51.00	0	1
MONTY						
## 144	CC	0	0	51.00	0	0
MONTY						
## 145	CC	0	0	51.00	0	0
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## 146	CC	0	0	51.00	0	0
MONTY						
## 147	CC	0	0	51.00	0	0
MONTY						
## 148	CC	0	0	51.00	0	0
MONTY						
## 149	CC	0	0	51.00	0	0
MONTY						

## 150	CC	0	0	51.00	0	0
MONTY						
## 151	CC	0	0	51.00	0	1
MONTY						
## 152	S	0	0	51.00	0	0
MONTY						
## 153	S	0	0	51.00	0	0
MONTY						
## 154	S	1	0	51.00	0	0
MONTY						
## 155	S	1	0	51.00	0	0
MONTY						
## 156	CC	0	0	51.00	0	1
MONTY						
## 157	CC	0	0	51.00	0	1
MONTY						
## 158	CV	0	0	51.00	0	0
MONTY						
## 159	CC	1	0	51.00	0	0
MONTY						
## 160	CC	1	0	51.00	0	0
MONTY						
## 161	S	0	0	51.00	0	0
MONTY						
## 162	S	1	0	51.00	0	0
MONTY						
## 163	S	1	0	51.00	0	0
MONTY						
## 164	F	1	0	51.00	0	1
LONG						
## 165	F	0	0	51.00	0	0
LONG						
## 166	F	0	0	51.00	0	0
LONG						
## 167	F	0	0	51.00	0	0
LONG						
## 168	F	0	0	51.00	0	0
LONG						
## 169	F	0	0	51.00	0	0
LONG						
## 170	F	0	0	51.00	0	0
LONG						

## 171	CC	1	0	51.00	0	0
LONG						
## 172	CC	1	0	51.00	0	0
LONG						
## 173	CC	1	0	51.00	0	0
LONG						
## 174	CC	0	0	51.00	0	0
LONG						
## 175	CC	0	0	51.00	0	0
LONG						
## 176	F	0	0	51.00	0	0
LONG						
## 177	F	0	0	51.00	0	0
LONG						
## 178	CC	0	0	51.00	0	0
LONG						
## 179	F	0	0	51.00	0	0
LONG						
## 180	CC	0	0	51.00	0	0
LONG						
## 181	CC	0	0	51.00	0	0
LONG						
## 182	CC	1	0	51.00	0	0
LONG						
## 183	CC	1	0	51.00	0	0
LONG						
## 184	F	0	0	51.00	0	0
LONG						
## 185	CC	1	0	51.00	0	0
LONG						
## 186	F	0	0	51.00	0	0
LONG						
## 187	F	1	0	51.00	0	0
LONG						
## 188	CC	0	0	51.00	0	0
LONG						
## 189	CC	1	0	51.00	0	0
LONG						
## 190	CC	1	0	51.00	0	0
LONG						
## 191	CC	1	0	51.00	0	0
LONG						

## 192	CC	0	0	51.00	0	0
LONG						
## 193	CC	0	0	51.00	0	0
LONG						
## 194	S	0	0	51.00	0	0
LONG						
## 195	F	0	0	51.00	0	0
LONG						
## 196	CV	0	0	51.00	0	0
LONG						
## 197	CC	1	0	51.00	0	0
LONG						
## 198	CC	0	0	51.00	0	0
LONG						
## 199	CC	0	0	51.00	0	0
LONG						
## 200	F	1	0	51.00	0	1
LONG						
## 201	S	0	0	51.00	0	1
LONG						
## 202	CV	0	0	51.00	0	0
LONG						
## 203	CC	1	0	51.00	0	1
LONG						
## 204	CC	1	0	51.00	0	0
LONG						
## 205	CC	1	0	51.00	0	0
LONG						
## 206	CC	1	0	51.00	0	0
LONG						
## 207	CC	1	0	51.00	0	1
LONG						
## 208	CC	1	0	51.00	0	0
LONG						
## 209	CC	1	0	51.00	0	0
LONG						
## 210	CC	1	0	51.00	0	0
LONG						
## 211	CC	1	0	51.00	0	0
LONG						
## 212	CC	1	0	51.00	0	0
LONG						

## 213	F	0	0	51.00	0	1
LONG						
## 214	F	0	0	51.00	0	0
LONG						
## 215	S	0	0	51.00	0	0
LONG						
## 216	S	0	0	51.00	0	0
LONG						
## 217	CC	1	0	51.00	0	1
LONG						
## 218	F	0	0	51.00	0	0
LONG						
## 219	F	0	0	51.00	0	1
LONG						
## 220	CC	0	0	51.00	0	0
LONG						
## 221	CV	0	0	51.00	0	0
LONG						
## 222	CC	0	0	51.00	0	0
LONG						
## 223	F	1	0	51.00	0	1
LONG						
## 224	CC	0	0	51.00	0	0
LONG						
## 225	CC	1	0	51.00	0	1
LONG						
## 226	CC	0	0	51.00	0	0
LONG						
## 227	CC	0	0	51.00	0	1
LONG						
## 228	S	0	0	51.00	0	0
LONG						
## 229	CC	0	0	51.00	0	0
LONG						
## 230	CC	1	0	51.00	0	0
LONG						
## 231	F	0	0	51.00	0	1
LONG						
## 232	F	0	0	51.00	0	0
LONG						
## 233	S	0	0	51.00	0	0
LONG						

## 234	S	0	0	51.00	0	0
LONG						
## 235	S	0	0	51.00	0	1
LONG						
## 236	S	0	0	51.00	0	0
LONG						
## 237	S	0	0	51.00	0	1
LONG						
## 238	S	1	0	51.00	0	0
LONG						
## 239	S	0	0	51.00	0	0
LONG						
## 240	CC	1	0	51.00	0	1
LONG						
## 241	F	1	0	51.00	0	0
LONG						
## 242	F	1	0	51.00	0	0
LONG						
## 243	S	1	0	51.00	0	0
LONG						
## 244	F	0	0	7.00	0	0
FISH						
## 245	CC	0	0	12.00	0	0
FISH						
## 246	CC	0	0	19.00	0	0
FISH						
## 247	F	1	0	51.00	0	1
FISH						
## 248	S	0	0	51.00	1	0
FISH						
## 249	S	0	0	0.10	0	0
CR69						
## 250	S	0	0	0.60	0	0
CR69						
## 251	S	1	0	51.00	0	0
CAM						
## 252	F	0	0	51.00	0	0
CAM						
## 253	S	0	0	51.00	0	0
CAM						
## 254	S	0	0	51.00	0	0
CAM						

## 255	S	0	0	51.00	0	0
CAM						
## 256	S	0	0	51.00	0	0
CAM						
## 257	S	0	0	51.00	0	0
CAM						
## 258	CC	0	0	51.00	0	0
CAM						
## 259	CC	1	0	51.00	0	0
CAM						
## 260	S	0	0	51.00	0	0
CAM						
## 261	S	0	0	51.00	0	0
CAM						
## 262	S	0	0	51.00	0	0
CAM						
## 263	CC	1	0	51.00	0	0
CAM						
## 264	CC	1	0	51.00	0	0
CAM						
## 265	CC	1	0	51.00	0	0
CAM						
## 266	CC	1	0	51.00	0	0
CAM						
## 267	S	1	0	51.00	0	0
CAM						
## 268	S	0	0	51.00	0	0
CAM						
## 269	S	0	0	51.00	0	0
CAM						
## 270	CC	1	0	51.00	0	0
CAM						
## 271	S	1	0	51.00	0	0
CAM						
## 272	S	0	0	51.00	0	0
CAM						
## 273	S	0	0	51.00	0	0
CAM						
## 274	CC	0	0	51.00	0	0
CAM						
## 275	CV	1	0	51.00	0	0
CAM						



## 276	CV	1	0	51.00	0	0
CAM						
## 277	CC	1	0	51.00	0	0
CAM						
## 278	S	1	0	51.00	0	0
CAM						
## 279	S	1	0	51.00	0	0
CAM						
## 280	S	1	0	51.00	0	0
CAM						
## 281	CV	1	0	51.00	0	0
CAM						
## 282	CV	0	0	51.00	0	0
CAM						
## 283	CC	0	0	51.00	0	0
CAM						
## 284	S	0	0	51.00	0	0
CAM						
## 285	S	0	0	51.00	0	0
CAM						
## 286	CC	0	0	51.00	0	0
CAM						
## 287	CC	0	0	51.00	0	1
CAM						
## 288	CC	1	0	51.00	0	0
CAM						
## 289	CC	1	0	51.00	0	0
CAM						
## 290	S	0	0	51.00	0	0
CAM						
## 291	S	1	0	51.00	0	0
CAM						
## 292	CC	1	0	51.00	0	0
CAM						
## 293	CC	1	0	51.00	0	0
CAM						
## 294	CC	1	0	51.00	0	0
CAM						
## 295	CC	1	0	51.00	0	0
CAM						
## 296	CV	1	0	51.00	0	0
CAM						

## 297	CC	1	0	51.00	0	0
CAM						
## 298	F	1	0	51.00	0	0
CAM						
## 299	F	1	0	51.00	0	1
CAM						
## 300	F	1	0	51.00	0	0
CAM						
## 301	F	1	0	51.00	0	0
CAM						
## 302	F	0	0	51.00	0	0
CAM						
## 303	CC	0	0	51.00	0	1
CAM						
## 304	F	0	0	51.00	0	0
CAM						
## 305	CC	1	0	51.00	0	0
CAM						
## 306	CC	1	0	51.00	0	0
CAM						
## 307	CC	1	0	51.00	0	0
CAM						
## 308	CC	1	0	51.00	0	0
CAM						
## 309	CC	1	0	51.00	0	0
CAM						
## 310	S	1	0	51.00	0	1
CAM						
## 311	S	1	0	51.00	0	1
CAM						
## 312	S	1	0	51.00	0	0
CAM						
## 313	CC	0	0	51.00	0	0
CAM						
## 314	S	1	0	51.00	0	0
CAM						
## 315	CC	1	0	51.00	0	0
CAM						
## 316	CC	1	0	51.00	0	0
CAM						
## 317	CV	1	0	51.00	0	0
CAM						

## 318	CC	1	0	51.00	0	0
CAM						
## 319	CC	1	0	51.00	0	0
CAM						
## 320	S	1	0	51.00	0	1
CAM						
## 321	S	1	0	51.00	0	1
CAM						
## 322	CC	1	0	51.00	0	0
CAM						
## 323	S	1	0	51.00	0	0
CAM						
## 324	CC	1	0	51.00	0	0
CAM						
## 325	CC	0	0	51.00	0	0
CAM						
## 326	F	1	0	51.00	0	0
CAM						
## 327	S	0	0	51.00	0	0
CAM						
## 328	CC	0	0	51.00	0	0
CAM						
## 329	CC	0	0	51.00	0	0
CAM						
## 330	CC	0	0	51.00	0	0
CAM						
## 331	CC	0	0	51.00	0	0
CAM						
## 332	CC	0	0	51.00	0	1
CAM						
## 333	CC	0	0	51.00	0	0
CAM						
## 334	F	1	0	51.00	0	0
CAM						
## 335	CC	0	0	51.00	0	0
CAM						
## 336	CC	0	0	51.00	0	0
CAM						
## 337	CV	0	0	51.00	0	0
CAM						
## 338	CC	0	0	51.00	0	0
CAM						

## 339	CC	0	0	51.00	0	0
CAM						
## 340	S	0	0	51.00	0	0
CAM						
## 341	CC	0	0	51.00	0	0
CAM						
## 342	S	0	0	51.00	0	0
CAM						
## 343	CC	0	0	51.00	0	0
CAM						
## 344	CC	1	0	51.00	0	0
CAM						
## 345	CC	1	0	51.00	0	0
CAM						
## 346	CC	0	0	51.00	0	0
CAM						
## 347	S	0	0	51.00	0	0
CAM						
## 348	CC	0	0	51.00	0	0
CAM						
## 349	CC	1	0	51.00	0	0
CAM						
## 350	F	0	0	51.00	0	1
CAM						
## 351	F	0	0	51.00	0	0
CAM						
## 352	F	0	0	51.00	0	1
CAM						
## 353	CC	0	0	51.00	0	0
CAM						
## 354	CV	0	0	51.00	0	0
CAM						
## 355	CC	1	0	51.00	0	0
CAM						
## 356	CC	0	0	51.00	0	0
CAM						
## 357	CC	0	0	51.00	0	0
CAM						
## 358	F	1	0	51.00	0	1
CAM						
## 359	CC	1	0	51.00	0	0
CAM						

## 360	CC	1	0	51.00	0	0
CAM						
## 361	CC	0	0	51.00	0	0
CAM						
## 362	CC	1	0	51.00	0	0
CAM						
## 363	S	1	0	51.00	0	0
CAM						
## 364	CC	0	0	51.00	0	0
CAM						
## 365	CC	1	0	51.00	0	0
CAM						
## 366	CC	1	0	51.00	0	0
CAM						
## 367	CC	1	0	51.00	0	0
CAM						
## 368	S	1	0	51.00	0	0
CAM						
## 369	S	10	0	51.00	0	0
CAM						
## 370	S	0	0	51.00	0	0
CAM						
## 371	S	0	0	51.00	0	0
CAM						
## 372	S	1	0	51.00	0	0
CAM						
## 373	S	1	0	51.00	0	0
CAM						
## 374	S	0	0	51.00	0	0
CAM						
## 375	S	1	0	51.00	0	0
CAM						
## 376	S	0	0	51.00	0	0
CAM						
## 377	S	1	0	51.00	0	0
CAM						
## 378	S	1	0	51.00	0	0
CAM						
## 379	CC	1	0	51.00	0	0
CAM						
## 380	CV	0	0	51.00	0	0
CAM						

## 381	CC	1	0	51.00	0	0
CAM						
## 382	S	1	0	51.00	0	0
CAM						
## 383	S	1	0	51.00	0	0
CAM						
## 384	S	1	0	51.00	0	0
CAM						
## 385	S	1	0	51.00	0	0
CAM						
## 386	F	1	0	51.00	0	0
CAM						
## 387	F	1	0	51.00	0	0
CAM						
## 388	F	1	0	51.00	0	0
CAM						
## 389	F	1	0	51.00	0	0
CAM						
## 390	S	0	0	51.00	0	0
CAM						
## 391	S	0	0	51.00	0	0
CAM						
## 392	CC	0	0	51.00	0	0
CAM						
## 393	F	0	0	51.00	0	0
CAM						
## 394	F	0	0	51.00	0	0
CAM						
## 395	F	0	0	51.00	0	0
CAM						
## 396	F	1	0	51.00	0	1
CAM						
## 397	F	1	0	51.00	0	0
CAM						
## 398	F	0	0	51.00	0	0
CAM						
## 399	CC	0	0	51.00	0	0
CAM						
## 400	F	0	0	51.00	0	0
CAM						
## 401	F	0	0	51.00	0	0
CAM						

## 402	F	0	0	51.00	0	0
CAM						
## 403	F	0	0	51.00	0	0
CAM						
## 404	F	0	0	51.00	0	0
CAM						
## 405	CC	0	0	51.00	0	0
CAM						
## 406	CC	0	0	51.00	0	0
CAM						
## 407	S	1	0	51.00	0	0
CAM						
## 408	CC	0	0	51.00	0	0
CAM						
## 409	S	0	0	51.00	0	0
CAM						
## 410	CC	0	0	51.00	0	0
CAM						
## 411	S	1	0	51.00	0	0
CAM						
## 412	S	1	0	51.00	0	0
CAM						
## 413	S	0	0	51.00	0	0
CAM						
## 414	S	1	0	51.00	0	0
CAM						
## 415	F	1	0	51.00	0	0
CAM						
## 416	CC	0	0	51.00	0	0
CAM						
## 417	CC	1	0	51.00	0	0
CAM						
## 418	CC	1	0	51.00	0	0
CAM						
## 419	S	1	0	51.00	0	0
CAM						
## 420	S	1	0	51.00	0	0
CAM						
## 421	S	1	0	51.00	0	0
CAM						
## 422	CC	1	0	51.00	0	0
CAM						

## 423	F	1	0	51.00	0	0
CAM						
## 424	S	1	0	51.00	0	0
CAM						
## 425	S	0	0	51.00	0	0
CAM						
## 426	CC	0	0	51.00	0	0
CAM						
## 427	F	1	0	51.00	0	0
CAM						
## 428	F	1	0	51.00	0	0
CAM						
## 429	F	1	0	51.00	0	0
CAM						
## 430	F	1	0	51.00	0	0
CAM						
## 431	CC	1	0	51.00	0	0
CAM						
## 432	CV	0	0	51.00	0	0
CAM						
## 433	S	1	0	51.00	0	0
CAM						
## 434	CC	0	0	51.00	0	0
CAM						
## 435	S	1	0	51.00	0	0
CAM						
## 436	S	1	0	51.00	0	0
CAM						
## 437	S	1	0	51.00	0	0
CAM						
## 438	S	1	0	51.00	0	0
CAM						
## 439	CC	0	0	51.00	0	0
CAM						
## 440	CC	0	0	51.00	0	0
CAM						
## 441	CC	0	0	51.00	0	0
CAM						
## 442	CC	0	0	51.00	0	0
CAM						
## 443	CV	0	0	51.00	0	0
CAM						



## 444	CV	0	0	51.00	0	0
CAM						
## 445	CC	0	0	51.00	0	0
CAM						
## 446	CV	0	0	51.00	0	0
CAM						
## 447	CV	0	0	51.00	0	0
CAM						
## 448	CC	0	0	51.00	0	0
CAM						
## 449	CV	0	0	51.00	0	1
CAM						
## 450	CV	0	0	51.00	0	0
CAM						
## 451	S	0	0	51.00	0	0
CAM						
## 452	S	1	0	51.00	0	0
CAM						
## 453	S	1	0	51.00	0	0
CAM						
## 454	S	1	0	51.00	0	0
CAM						
## 455	S	0	0	51.00	0	0
CAM						
## 456	S	0	0	51.00	0	0
CAM						
## 457	S	0	0	51.00	0	0
CAM						
## 458	F	0	0	51.00	0	0
CAM						
## 459	S	0	0	51.00	0	0
CAM						
## 460	S	0	0	51.00	0	0
CAM						
## 461	S	0	0	51.00	0	0
CAM						
## 462	S	0	0	51.00	0	0
CAM						
## 463	S	0	0	51.00	0	0
CAM						
## 464	S	0	0	51.00	0	0
CAM						

## 465	S	1	0	51.00	0	0
CAM						
## 466	S	1	0	51.00	0	0
CAM						
## 467	S	0	0	51.00	0	0
CAM						
## 468	S	0	0	51.00	0	0
CAM						
## 469	S	0	0	51.00	0	0
CAM						
## 470	S	0	0	51.00	0	0
CAM						
## 471	CC	0	0	51.00	0	1
CAM						
## 472	CC	0	0	51.00	0	0
CAM						
## 473	S	0	0	51.00	0	0
CAM						
## 474	CC	0	0	51.00	0	1
CAM						
## 475	CC	0	0	51.00	0	0
CAM						

##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing
Elevation	Slope				

## 1	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 2	1	30.0	ELKHORN	447029.0	4510687
2712	4				
## 3	1	25.0	ELKHORN	447029.0	4510687
2712	4				
## 4	5	20.5	LAKE	427646.0	4494147
2825	-5				
## 5	6	44.0	LAKE	427647.0	4493988
2835	-6				
## 6	6	15.0	LAKE	427647.0	4493988
2835	-6				
## 7	6	6.0	LAKE	427647.0	4493988
2835	-6				
## 8	6	3.5	LAKE	427647.0	4493988
2835	-6				
## 9	6	39.0	LAKE	427647.0	4493988
2835	-6				

## 10		6	18.0	LAKE	427647.0	4493988
2835	-6					
## 11		7	27.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 18		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 19		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 20		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	44.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	42.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	22.0	RAWAH	427082.0	4499706
2710	-7					
## 27		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 28		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 29		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 30		7	18.0	RAWAH	427082.0	4499706
2710	-7					

## 31		7	11.0	RAWAH	427082.0	4499706
2710	-7					
## 32		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 33		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 34		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 35		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 36		7	23.0	RAWAH	427082.0	4499706
2710	-7					
## 37		7	13.0	RAWAH	427082.0	4499706
2710	-7					
## 38		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 39		7	27.0	RAWAH	427082.0	4499706
2710	-7					
## 40		7	14.0	RAWAH	427082.0	4499706
2710	-7					
## 41		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 42		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 43		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 44		7	54.0	RAWAH	427082.0	4499706
2710	-7					
## 45		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 46		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 47		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 48		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 49		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 50		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 51		7	39.0	RAWAH	427082.0	4499706
2710	-7					

## 52		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 53		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 54		7	11.0	RAWAH	427082.0	4499706
2710	-7					
## 55		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 56		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 57		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 58		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 59		7	39.0	RAWAH	427082.0	4499706
2710	-7					
## 60		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 61		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 62		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 63		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 64		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 65		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 66		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 67		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 68		7	40.0	RAWAH	427082.0	4499706
2710	-7					
## 69		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 70		7	60.0	RAWAH	427082.0	4499706
2710	-7					
## 71		7	45.0	RAWAH	427082.0	4499706
2710	-7					
## 72		7	51.0	RAWAH	427082.0	4499706
2710	-7					

## 73		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 74		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 75		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 76		7	43.0	RAWAH	427082.0	4499706
2710	-7					
## 77		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 78		7	47.0	RAWAH	427082.0	4499706
2710	-7					
## 79		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 80		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 81		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 82		8	9.0	RAWAH	426956.0	4499540
2724	-9					
## 83		12	28.0	BLUE	427290.0	4493596
2926	-11					
## 84		12	16.0	BLUE	427290.0	4493596
2926	-11					
## 85		12	6.0	BLUE	427290.0	4493596
2926	-11					
## 86		17	6.0	RAWAH	426806.8	4499771
2715	-6					
## 87		19	14.0	RAWAH	427155.5	4498773
2751	-10					
## 88		19	1.5	RAWAH	427155.5	4498773
2751	-10					
## 89		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 90		20	20.0	SNOW	426996.6	4492304
2959	-10					
## 91		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 92		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 93		20	7.0	SNOW	426996.6	4492304
2959	-10					

## 94	20	8.0	SNOW	426996.6	4492304
2959 -10					
## 95	20	9.0	SNOW	426996.6	4492304
2959 -10					
## 96	20	9.5	SNOW	426996.6	4492304
2959 -10					
## 97	20	11.0	SNOW	426996.6	4492304
2959 -10					
## 98	20	11.0	SNOW	426996.6	4492304
2959 -10					
## 99	20	18.0	SNOW	426996.6	4492304
2959 -10					
## 100	20	12.0	SNOW	426996.6	4492304
2959 -10					
## 101	20	9.0	SNOW	426996.6	4492304
2959 -10					
## 102	20	8.5	SNOW	426996.6	4492304
2959 -10					
## 103	20	22.0	SNOW	426996.6	4492304
2959 -10					
## 104	20	27.5	SNOW	426996.6	4492304
2959 -10					
## 105	20	17.0	SNOW	426996.6	4492304
2959 -10					
## 106	20	6.5	SNOW	426996.6	4492304
2959 -10					
## 107	20	4.0	SNOW	426996.6	4492304
2959 -10					
## 108	20	20.5	SNOW	426996.6	4492304
2959 -10					
## 109	20	18.5	SNOW	426996.6	4492304
2959 -10					
## 110	20	5.5	SNOW	426996.6	4492304
2959 -10					
## 111	20	11.5	SNOW	426996.6	4492304
2959 -10					
## 112	20	11.0	SNOW	426996.6	4492304
2959 -10					
## 113	20	8.0	SNOW	426996.6	4492304
2959 -10					
## 114	20	13.5	SNOW	426996.6	4492304
2959 -10					

## 115	20	1.5	SNOW	426996.6	4492304
2959 -10					
## 116	20	16.0	SNOW	426996.6	4492304
2959 -10					
## 117	20	22.5	SNOW	426996.6	4492304
2959 -10					
## 118	20	12.5	SNOW	426996.6	4492304
2959 -10					
## 119	20	17.5	SNOW	426996.6	4492304
2959 -10					
## 120	20	17.5	SNOW	426996.6	4492304
2959 -10					
## 121	20	11.5	SNOW	426996.6	4492304
2959 -10					
## 122	20	7.5	SNOW	426996.6	4492304
2959 -10					
## 123	20	12.0	SNOW	426996.6	4492304
2959 -10					
## 124	20	23.5	SNOW	426996.6	4492304
2959 -10					
## 125	20	18.5	SNOW	426996.6	4492304
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## 126	20	13.5	SNOW	426996.6	4492304
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## 127	20	18.0	SNOW	426996.6	4492304
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## 128	20	31.5	SNOW	426996.6	4492304
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## 130	20	22.0	SNOW	426996.6	4492304
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## 131	20	18.5	SNOW	426996.6	4492304
2959 -10					
## 132	20	29.5	SNOW	426996.6	4492304
2959 -10					
## 133	20	4.5	SNOW	426996.6	4492304
2959 -10					
## 134	21	21.0	LONG	429815.3	4490511
3029 -1					
## 135	21	5.0	LONG	429815.3	4490511
3029 -1					



## 136	21	10.0	LONG	429815.3	4490511
3029 -1					
## 137	21	14.5	LONG	429815.3	4490511
3029 -1					
## 138	22	22.5	MONTY	424940.0	4489009
3206 -8					
## 139	23	9.5	MONTY	424655.0	4489019
3259 -13					
## 140	23	7.9	MONTY	424655.0	4489019
3259 -13					
## 141	23	8.0	MONTY	424655.0	4489019
3259 -13					
## 142	23	6.0	MONTY	424655.0	4489019
3259 -13					
## 143	23	14.0	MONTY	424655.0	4489019
3259 -13					
## 144	23	8.0	MONTY	424655.0	4489019
3259 -13					
## 145	23	1.0	MONTY	424655.0	4489019
3259 -13					
## 146	23	5.5	MONTY	424655.0	4489019
3259 -13					
## 147	23	6.9	MONTY	424655.0	4489019
3259 -13					
## 148	23	1.1	MONTY	424655.0	4489019
3259 -13					
## 149	23	1.2	MONTY	424655.0	4489019
3259 -13					
## 150	23	1.6	MONTY	424655.0	4489019
3259 -13					
## 151	23	4.3	MONTY	424655.0	4489019
3259 -13					
## 152	23	4.6	MONTY	424655.0	4489019
3259 -13					
## 153	23	5.0	MONTY	424655.0	4489019
3259 -13					
## 154	23	4.0	MONTY	424655.0	4489019
3259 -13					
## 155	23	4.0	MONTY	424655.0	4489019
3259 -13					
## 156	23	5.6	MONTY	424655.0	4489019
3259 -13					

## 157	23	7.2	MONTY	424655.0	4489019
3259 -13					
## 158	23	5.7	MONTY	424655.0	4489019
3259 -13					
## 159	23	7.4	MONTY	424655.0	4489019
3259 -13					
## 160	23	2.1	MONTY	424655.0	4489019
3259 -13					
## 161	23	3.3	MONTY	424655.0	4489019
3259 -13					
## 162	23	4.8	MONTY	424655.0	4489019
3259 -13					
## 163	23	5.0	MONTY	424655.0	4489019
3259 -13					
## 164	25	4.2	LONG	431465.0	4490417
3068 -7					
## 165	25	4.5	LONG	431465.0	4490417
3068 -7					
## 166	25	6.0	LONG	431465.0	4490417
3068 -7					
## 167	25	2.6	LONG	431465.0	4490417
3068 -7					
## 168	25	3.0	LONG	431465.0	4490417
3068 -7					
## 169	25	5.0	LONG	431465.0	4490417
3068 -7					
## 170	25	1.5	LONG	431465.0	4490417
3068 -7					
## 171	25	3.9	LONG	431465.0	4490417
3068 -7					
## 172	25	5.5	LONG	431465.0	4490417
3068 -7					
## 173	25	2.6	LONG	431465.0	4490417
3068 -7					
## 174	25	9.6	LONG	431465.0	4490417
3068 -7					
## 175	25	7.9	LONG	431465.0	4490417
3068 -7					
## 176	25	5.3	LONG	431465.0	4490417
3068 -7					
## 177	25	5.0	LONG	431465.0	4490417
3068 -7					

## 178		25	10.2	LONG	431465.0	4490417
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## 180		25	5.1	LONG	431465.0	4490417
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## 181		25	4.1	LONG	431465.0	4490417
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## 182		25	7.1	LONG	431465.0	4490417
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## 183		25	13.6	LONG	431465.0	4490417
3068	-7					
## 184		25	4.6	LONG	431465.0	4490417
3068	-7					
## 185		25	5.8	LONG	431465.0	4490417
3068	-7					
## 186		25	7.1	LONG	431465.0	4490417
3068	-7					
## 187		25	3.2	LONG	431465.0	4490417
3068	-7					
## 188		25	7.0	LONG	431465.0	4490417
3068	-7					
## 189		25	11.0	LONG	431465.0	4490417
3068	-7					
## 190		25	11.9	LONG	431465.0	4490417
3068	-7					
## 191		25	6.8	LONG	431465.0	4490417
3068	-7					
## 192		25	15.6	LONG	431465.0	4490417
3068	-7					
## 193		25	24.9	LONG	431465.0	4490417
3068	-7					
## 194		25	3.9	LONG	431465.0	4490417
3068	-7					
## 195		25	4.0	LONG	431465.0	4490417
3068	-7					
## 196		25	8.4	LONG	431465.0	4490417
3068	-7					
## 197		25	3.9	LONG	431465.0	4490417
3068	-7					
## 198		25	3.5	LONG	431465.0	4490417
3068	-7					

## 199		25	9.9	LONG	431465.0	4490417
3068	-7					
## 200		25	3.5	LONG	431465.0	4490417
3068	-7					
## 201		25	2.9	LONG	431465.0	4490417
3068	-7					
## 202		25	7.5	LONG	431465.0	4490417
3068	-7					
## 203		25	8.8	LONG	431465.0	4490417
3068	-7					
## 204		25	9.0	LONG	431465.0	4490417
3068	-7					
## 205		25	6.5	LONG	431465.0	4490417
3068	-7					
## 206		25	12.0	LONG	431465.0	4490417
3068	-7					
## 207		25	10.0	LONG	431465.0	4490417
3068	-7					
## 208		25	4.0	LONG	431465.0	4490417
3068	-7					
## 209		25	4.0	LONG	431465.0	4490417
3068	-7					
## 210		25	3.0	LONG	431465.0	4490417
3068	-7					
## 211		25	2.0	LONG	431465.0	4490417
3068	-7					
## 212		25	6.5	LONG	431465.0	4490417
3068	-7					
## 213		25	4.0	LONG	431465.0	4490417
3068	-7					
## 214		25	7.0	LONG	431465.0	4490417
3068	-7					
## 215		25	4.0	LONG	431465.0	4490417
3068	-7					
## 216		25	9.5	LONG	431465.0	4490417
3068	-7					
## 217		26	11.4	LONG	431200.0	4490450
3099	-48					
## 218		26	13.2	LONG	431200.0	4490450
3099	-48					
## 219		26	4.7	LONG	431200.0	4490450
3099	-48					

## 220	26	5.7	LONG	431200.0	4490450
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Transect.B						
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NA						
## 2	88		CC			NA
NA						
## 3	88		CC			NA
NA						
## 4	75		CC			75
165						
## 5	173		CC			18
108						
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## 7	173		CC			18
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## 8	173		CC			18
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## 9	173		CC			18
108						
## 10	173		CC			18
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## 12	30		F			252
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## 13	30		F			252
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## 243	51	51.00
## 244	51	5.40

## 245	51	5.40
## 246	51	5.40
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## 249	51	9.95
## 250	51	9.95
## 251	51	51.00
## 252	51	51.00
## 253	51	51.00
## 254	51	51.00
## 255	51	51.00
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## 462	51	51.00
## 463	51	51.00
## 464	51	51.00
## 465	51	51.00
## 466	51	51.00
## 467	51	51.00
## 468	51	51.00
## 469	51	51.00
## 470	51	51.00
## 471	51	51.00
## 472	51	51.00
## 473	51	51.00
## 474	51	51.00
## 475	51	51.00

#all regen

*#REGEN*

```
abla <- REGEN %>% filter(ABLA > "0")
pico <- REGEN %>% filter(PICO > "0")
pien <- REGEN %>% filter(PIEN > "0")
pipo <- REGEN %>% filter(PIPO > "0")
psme <- REGEN %>% filter(PSME > "0")
```

```
sucker_regen <- REGEN %>% filter(POTR..sucker. > "0")
```

```
abla
```

```
## SITE Transect Point ABLA PICO PIEN PIPO PSME POTR..sucker.  
POTR..seedling.
```

```
## 1 21 B 0-2 2 0 0 0 0 0  
0  
## 2 21 B 8-10 1 0 2 0 0 0  
0
```

```
pico
```

```
## SITE Transect Point ABLA PICO PIEN PIPO PSME POTR..sucker.  
POTR..seedling.
```

```
## 1 1 A 6-8 0 2 0 0 0 2  
0  
## 2 4 A 10-12 0 2 0 0 0 0  
0  
## 3 4 A 14-16 0 1 0 0 0 0  
0  
## 4 4 A 18-20 0 1 0 0 0 0  
0  
## 5 4 A 22-24 0 1 0 0 0 0  
0  
## 6 4 B 10-12 0 1 0 0 0 0  
0  
## 7 4 B 30-32 0 1 0 0 0 0  
0  
## 8 4 B 36-38 0 2 0 0 0 0  
0  
## 9 4 B 46-48 0 3 0 0 0 0  
0  
## 10 4 B 48-50 0 1 0 0 0 0  
0  
## 11 5 A 12-14 0 1 0 0 0 0  
0  
## 12 5 B 6-8 0 1 0 0 0 0  
0  
## 13 5 B 8-10 0 1 0 0 0 0  
0  
## 14 5 B 18-20 0 1 0 0 0 0
```

0									
##	15	5	B 20-22	0	2	0	0	0	0
0									
##	16	5	B 32-34	0	1	0	0	0	0
0									
##	17	5	B 44-46	0	2	0	0	0	0
0									
##	18	6	A 2-4	0	1	0	0	0	0
1									
##	19	6	A 14-16	0	2	0	0	0	0
3									
##	20	6	A 16-18	0	1	0	0	0	0
2									
##	21	6	A 20-22	0	1	0	0	0	0
0									
##	22	7	B 18-20	0	1	0	0	0	0
0									
##	23	7	B 28-30	0	1	0	0	0	0
0									
##	24	7	B 34-36	0	2	0	0	0	0
3									
##	25	7	B 40-42	0	1	0	0	0	0
1									
##	26	7	B 42-44	0	2	0	0	0	0
26									
##	27	7	B 44-46	0	2	0	0	0	0
4									
##	28	8	A 2-4	0	1	0	0	0	0
0									
##	29	8	B 38-40	0	1	0	0	0	0
0									
##	30	8	B 40-42	0	2	0	0	0	0
1									
##	31	8	B 48-50	0	1	0	0	0	0
0									
##	32	9	A 16-18	0	1	0	0	0	0
0									
##	33	10	A 0-2	0	3	0	0	0	0
0									
##	34	10	A 46-48	0	1	0	0	0	0
0									
##	35	10	B 22-24	0	1	0	0	0	0

0									
##	36	13	A 24-26	0	1	0	0	0	0
0									
##	37	18	A 24-26	0	1	0	0	0	0
0									
##	38	20	A 36-38	0	1	0	0	0	0
0									
##	39	25	A 2-4	0	2	0	0	0	0
2									
##	40	25	A 4-6	0	8	0	0	0	0
1									
##	41	25	A 8-10	0	1	0	0	0	0
7									
##	42	25	A 10-12	0	6	0	0	0	0
1									
##	43	25	A 12-14	0	5	0	0	0	0
13									
##	44	25	A 14-16	0	1	0	0	0	0
3									
##	45	25	A 20-22	0	1	0	0	0	0
1									
##	46	25	A 24-26	0	1	0	0	0	0
1									
##	47	25	B 38-40	0	1	0	0	0	0
0									
##	48	26	A 2-4	0	1	0	0	0	0
0									
##	49	26	A 4-6	0	1	0	0	0	0
0									
##	50	26	A 24-26	0	3	0	0	0	0
2									
##	51	26	A 32-34	0	1	0	0	0	0
0									
##	52	26	A 40-42	0	1	0	0	0	0
1									
##	53	26	A 42-44	0	1	0	0	0	0
0									
##	54	26	A 44-46	0	2	0	0	0	0
0									
##	55	27	A 2-4	0	2	0	0	0	0
0									
##	56	27	B 0-2	0	2	0	0	0	0

7										
##	57	28	A	2-4	0	1	0	1	0	0
0										
##	58	28	A	8-10	0	1	0	0	0	0
0										
##	59	28	A	10-12	0	2	0	0	0	0
0										
##	60	28	A	12-14	0	1	0	0	0	0
0										
##	61	28	A	16-18	0	1	0	1	1	2
0										
##	62	28	A	48-50	0	1	0	0	0	0
0										
##	63	28	B	2-4	0	1	0	1	0	0
0										
##	64	28	B	14-16	0	1	0	0	0	0
0										
##	65	28	B	30-32	0	1	0	0	0	0
0										
##	66	28	B	48-50	0	1	1	0	0	0
0										
##	67	28	B	50-52	0	1	0	0	1	0
0										
##	68	34	A	24-26	0	1	0	0	0	0
0										
##	69	34	A	30-32	0	1	0	0	0	0
4										
##	70	34	A	40-42	0	1	0	0	0	0
4										
##	71	36	A	32-34	0	1	0	0	0	0
0										
##	72	36	A	46-48	0	1	0	0	0	0
1										
##	73	36	B	18-20	0	1	0	0	0	0
0										
##	74	37	B	0-2	0	1	0	0	0	0
0										
##	75	37	B	2-4	0	1	0	0	0	0
0										
##	76	37	B	6-8	0	1	0	0	0	0
0										
##	77	38	A	4-6	0	2	0	0	0	0

```

8
## 78 38 A 6-8 0 3 1 0 0 0
0
## 79 38 A 10-12 0 3 0 0 0 0
5
## 80 38 A 14-16 0 1 0 0 0 0
2
## 81 38 A 16-18 0 4 1 0 0 0
10
## 82 38 A 20-22 0 2 0 0 0 0
5
## 83 38 A 22-24 0 1 0 0 0 0
11
## 84 38 A 28-30 0 1 0 0 0 0
0
## 85 38 A 34-36 0 1 0 0 0 0
14
## 86 38 A 40-42 0 1 0 0 0 0
0
## 87 38 A 42-44 0 2 0 0 0 0
1
## 88 38 B 2-4 0 1 0 0 0 0
0
## 89 38 B 4-6 0 1 0 0 0 0
4
## 90 38 B 30-32 0 1 0 0 0 0
4
## 91 38 B 32-34 0 1 1 0 0 0
1
## 92 38 B 38-40 0 1 0 0 0 0
6
## 93 38 B 42-44 0 1 0 0 0 0
12

```

pien

```

## SITE Transect Point ABLA PICO PIEN PIPO PSME POTR..sucker.
POTR..seedling.
## 1 1 A 18-20 0 0 2 0 0 2
0
## 2 1 A 20-22 0 0 3 0 0 0
0

```



[illegible]

##	24	28	B	48-50	0	1	1	0	0	0
0										
##	25	38	A	6-8	0	3	1	0	0	0
0										
##	26	38	A	8-10	0	0	2	0	0	0
0										
##	27	38	A	16-18	0	4	1	0	0	0
10										
##	28	38	A	24-26	0	0	1	0	0	0
0										
##	29	38	B	6-8	0	0	1	0	0	0
1										
##	30	38	B	32-34	0	1	1	0	0	0
1										
##	31	38	B	48-50	0	0	1	0	0	0
0										

pipo

##	SITE	Transect	Point	ABLA	PICO	PIEN	PIPO	PSME	POTR..sucker.	POTR..seedling.
----	------	----------	-------	------	------	------	------	------	---------------	-----------------

##	1	2	A	0-2	0	0	0	1	0	0
0										
##	2	2	B	2-4	0	0	0	3	0	0
0										
##	3	2	B	18-20	0	0	0	1	0	0
0										
##	4	28	A	2-4	0	1	0	1	0	0
0										
##	5	28	A	16-18	0	1	0	1	1	2
0										
##	6	28	A	22-24	0	0	0	1	0	0
0										
##	7	28	A	38-40	0	0	0	1	0	0
0										
##	8	28	B	2-4	0	1	0	1	0	0
0										
##	9	28	B	12-14	0	0	0	1	0	0
0										
##	10	28	B	16-18	0	0	0	2	0	0
1										
##	11	28	B	36-38	0	0	0	2	0	0

```

0
## 12  28      B 46-48    0    0    0    1    0      0
0
## 13  29      B   4-6    0    0    0    1    0      0
0
## 14  29      B 38-40    0    0    0    1    0      0
0
## 15  30      B 12-14    0    0    0    1    0      0
0

```

psme

```

##  SITE Transect Point ABLA PICO PIEN PIPO PSME POTR..sucker.
POTR..seedling.

```

```

## 1  28      A 16-18    0    1    0    1    1      2
0
## 2  28      B 18-20    0    0    0    0    1      0
0
## 3  28      B 50-52    0    1    0    0    1      0
0

```

sucker\_regen

```

##  SITE Transect Point ABLA PICO PIEN PIPO PSME POTR..sucker.
POTR..seedling.

```

```

## 1    1      A   0-2    0    0    0    0    0      5
0
## 2    1      A   2-4    0    0    0    0    0      7
0
## 3    1      A   6-8    0    2    0    0    0      2
0
## 4    1      A   8-10   0    0    0    0    0      3
0
## 5    1      A  10-12   0    0    0    0    0      1
0
## 6    1      A  12-14   0    0    0    0    0      5
0
## 7    1      A  14-16   0    0    0    0    0      6
0
## 8    1      A  16-18   0    0    0    0    0      3
0
## 9    1      A  18-20   0    0    2    0    0      2
0

```



## 31	1	B 36-38	0	0	0	0	0	19
0								
## 32	1	B 38-40	0	0	0	0	0	29
0								
## 33	1	B 40-42	0	0	0	0	0	4
0								
## 34	1	B 42-44	0	0	0	0	0	8
0								
## 35	1	B 44-46	0	0	0	0	0	1
0								
## 36	1	B 46-48	0	0	0	0	0	13
0								
## 37	1	B 48-50	0	0	0	0	0	42
0								
## 38	3	A 10-12	0	0	0	0	0	4
0								
## 39	3	A 18-20	0	0	0	0	0	3
0								
## 40	28	A 16-18	0	1	0	1	1	2
0								
## 41	28	A 18-20	0	0	0	0	0	3
0								
## 42	28	A 20-22	0	0	0	0	0	2
0								
## 43	28	A 28-30	0	0	0	0	0	1
0								
## 44	28	A 30-32	0	0	0	0	0	3
0								
## 45	28	A 32-34	0	0	0	0	0	5
0								
## 46	28	A 34-36	0	0	0	0	0	2
0								
## 47	33	A 32-34	0	0	0	0	0	1
0								
## 48	33	A 40-42	0	0	0	0	0	1
0								
## 49	33	A 44-46	0	0	0	0	0	3
0								
## 50	33	B 28-30	0	0	0	0	0	12
0								
## 51	33	B 30-32	0	0	0	0	0	1
0								

#other aspen

```
sucker <- compiled %>% filter(Sucker.Dist. < "51")
parent <- compiled %>% filter(Distance.to.nearest.live.aspen < "51")
orphan <- compiled %>% filter(Distance.to.nearest.dead.aspen < "51")
```

parent

```
## [1] SITE.. seedling
## [3] SITE.NAME Transect
## [5] Subplot Height..cm.
## [7] Substrate Small.Topo
## [9] Large.Topo Large.CWD
## [11] Small.CWD Sucker.Dist.
## [13] Canopy.Cover Browse
## [15] site.name site.Number
## [17] height Cluster
## [19] UTM.Easting..13T. UTM.Northing
## [21] Elevation Slope
## [23] Aspect Topographic.Position
## [25] Transect.A..ORIENTATION.DEGREES. Transect.B
## [27] Distance.to.nearest.live.aspen
Distance.to.nearest.dead.aspen
## <0 rows> (or 0-length row.names)
```

orphan

```
## SITE.. seedling SITE.NAME Transect Subplot Height..cm. Substrate
Small.Topo
## 1 7 14 RAWAH A 0-2 27.0 B/M
CC
## 2 7 15 RAWAH A 0-2 26.0 B/M
F
## 3 7 16 RAWAH A 0-2 30.0 B/M
F
## 4 7 17 RAWAH A 0-2 21.0 B/M
F
## 5 7 18 RAWAH A 0-2 17.0 B/M
S
## 6 7 19 RAWAH A 0-2 31.0 B/M
S
## 7 7 20 RAWAH A 0-2 26.0 B/M
```

CC								
##	8	7	21	RAWAH	A	0-2	16.0	B/M
S								
##	9	7	22	RAWAH	A	0-2	17.0	B/M
CC								
##	10	7	23	RAWAH	A	0-2	28.0	B/M
CC								
##	11	7	24	RAWAH	A	0-2	28.0	B/M
CC								
##	12	7	25	RAWAH	A	0-2	44.0	B/M
CC								
##	13	7	26	RAWAH	A	0-2	15.0	M
CC								
##	14	7	27	RAWAH	A	0-2	42.0	M
CC								
##	15	7	28	RAWAH	A	16-18	21.0	A/M
F								
##	16	7	29	RAWAH	B	14-16	22.0	A
F								
##	17	7	30	RAWAH	B	14-16	19.0	A
F								
##	18	7	31	RAWAH	B	14-16	26.0	A
F								
##	19	7	32	RAWAH	B	14-16	24.0	A
F								
##	20	7	33	RAWAH	B	16-18	19.0	A
CC								
##	21	7	34	RAWAH	B	16-18	18.0	A
CC								
##	22	7	35	RAWAH	B	16-18	11.0	A
CC								
##	23	7	36	RAWAH	B	30-32	21.0	B/M
F								
##	24	7	37	RAWAH	B	30-32	31.0	B/M
F								
##	25	7	38	RAWAH	B	30-32	35.0	B/M
F								
##	26	7	39	RAWAH	B	30-32	31.0	B/M
F								
##	27	7	40	RAWAH	B	34-36	23.0	A
S								
##	28	7	41	RAWAH	B	34-36	13.0	A

CV							
##	29	7	42	RAWAH	B	34-36	29.0 A
CV							
##	30	7	43	RAWAH	B	36-38	27.0 M
CC							
##	31	7	44	RAWAH	B	36-38	14.0 A
F							
##	32	7	45	RAWAH	B	36-38	20.0 A
F							
##	33	7	46	RAWAH	B	38-40	26.0 M
F							
##	34	7	47	RAWAH	B	38-40	30.0 M
F							
##	35	7	48	RAWAH	B	38-40	54.0 M
F							
##	36	7	49	RAWAH	B	40-42	26.0 A
CC							
##	37	7	50	RAWAH	B	42-44	37.0 B/M
F							
##	38	7	51	RAWAH	B	42-44	29.0 M
CC							
##	39	7	52	RAWAH	B	42-44	18.0 B/M
CC							
##	40	7	53	RAWAH	B	42-44	17.0 B/M
CC							
##	41	7	54	RAWAH	B	42-44	18.0 B/M
CC							
##	42	7	55	RAWAH	B	42-44	15.0 B/M
CC							
##	43	7	56	RAWAH	B	42-44	25.0 B/M
CC							
##	44	7	57	RAWAH	B	42-44	39.0 B/M
CC							
##	45	7	58	RAWAH	B	42-44	28.0 B/M
CC							
##	46	7	59	RAWAH	B	42-44	35.0 M
CC							
##	47	7	60	RAWAH	B	42-44	11.0 B
CV							
##	48	7	61	RAWAH	B	42-44	15.0 B
CV							
##	49	7	62	RAWAH	B	42-44	8.0 B



CV								
##	50	7	63	RAWAH	B	42-44	30.0	W
S								
##	51	7	64	RAWAH	B	42-44	30.0	W
S								
##	52	7	65	RAWAH	B	42-44	39.0	W
S								
##	53	7	66	RAWAH	B	42-44	25.0	B/M
CC								
##	54	7	67	RAWAH	B	42-44	16.0	M
F								
##	55	7	68	RAWAH	B	42-44	25.0	W
F								
##	56	7	69	RAWAH	B	42-44	25.0	M
F								
##	57	7	70	RAWAH	B	42-44	17.0	M
F								
##	58	7	71	RAWAH	B	42-44	26.0	M
F								
##	59	7	72	RAWAH	B	42-44	26.0	B
CC								
##	60	7	73	RAWAH	B	42-44	16.0	B/M
S								
##	61	7	74	RAWAH	B	42-44	20.0	M
S								
##	62	7	75	RAWAH	B	42-44	40.0	M
F								
##	63	7	76	RAWAH	B	44-46	34.0	B/M
S								
##	64	7	77	RAWAH	B	44-46	60.0	B/M
S								
##	65	7	78	RAWAH	B	44-46	45.0	B/M
CC								
##	66	7	79	RAWAH	B	44-46	51.0	M
F								
##	67	7	80	RAWAH	B	46-48	26.0	M
F								
##	68	7	81	RAWAH	B	46-48	29.0	M
F								
##	69	7	82	RAWAH	B	46-48	8.0	M
CC								
##	70	7	83	RAWAH	B	46-48	43.0	M

S							
## 71	7	84	RAWAH	B	46-48	15.0	M
S							
## 72	7	85	RAWAH	B	46-48	47.0	M
CC							
## 73	7	86	RAWAH	B	46-48	32.0	M
CC							
## 74	7	87	RAWAH	B	46-48	34.0	B
F							
## 75	7	88	RAWAH	B	48-50	17.0	M
CV							
## 76	7	89	RAWAH	B	48-50	26.0	M
CV							
## 77	7	90	RAWAH	B	48-50	32.0	M
CV							
## 78	19	107	RAWAH	A	0-2	14.0	A
CC							
## 79	19	108	RAWAH	A	0-2	1.5	A
CC							
## 80	28	302	FISH	A	24-26	15.0	M
F							
## 81	28	303	FISH	B	16-18	20.0	A
F							
## 82	28	304	FISH	B	44-46	17.0	A
CC							
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	S	0	0	51	0	1	
RAWAH							
## 2	S	0	0	51	0	0	
RAWAH							
## 3	S	0	0	51	0	0	
RAWAH							
## 4	S	0	0	51	0	0	
RAWAH							
## 5	S	0	0	51	0	0	
RAWAH							
## 6	CC	0	0	51	0	0	
RAWAH							
## 7	S	0	0	51	0	0	
RAWAH							
## 8	S	0	0	51	0	0	

RAWAH						
## 9	S	0	0	51	0	0
RAWAH						
## 10	CC	0	0	51	0	0
RAWAH						
## 11	CC	0	0	51	0	0
RAWAH						
## 12	CC	0	0	51	0	0
RAWAH						
## 13	CC	0	0	51	0	0
RAWAH						
## 14	CC	0	0	51	0	1
RAWAH						
## 15	F	1	0	51	0	0
RAWAH						
## 16	F	0	0	51	0	1
RAWAH						
## 17	F	0	0	51	0	1
RAWAH						
## 18	F	0	0	51	0	0
RAWAH						
## 19	F	0	1	51	0	0
RAWAH						
## 20	CC	0	0	51	0	0
RAWAH						
## 21	CC	0	0	51	0	0
RAWAH						
## 22	CC	0	0	51	0	0
RAWAH						
## 23	CC	0	0	51	0	0
RAWAH						
## 24	CC	0	0	51	0	0
RAWAH						
## 25	CC	0	0	51	0	0
RAWAH						
## 26	CC	0	0	51	0	0
RAWAH						
## 27	F	1	0	51	0	0
RAWAH						
## 28	S	1	0	51	0	0
RAWAH						
## 29	S	1	0	51	0	0

RAWAH						
## 30	F	0	0	51	0	0
RAWAH						
## 31	F	1	0	51	0	0
RAWAH						
## 32	F	1	0	51	0	1
RAWAH						
## 33	F	1	0	51	0	0
RAWAH						
## 34	F	0	0	51	0	0
RAWAH						
## 35	F	0	0	51	0	0
RAWAH						
## 36	F	1	0	51	0	0
RAWAH						
## 37	CC	0	1	51	0	0
RAWAH						
## 38	CC	0	1	51	0	0
RAWAH						
## 39	CC	1	0	51	0	0
RAWAH						
## 40	CC	1	0	51	0	0
RAWAH						
## 41	CC	1	0	51	0	0
RAWAH						
## 42	CC	1	0	51	0	0
RAWAH						
## 43	CC	1	0	51	0	0
RAWAH						
## 44	CC	1	0	51	0	0
RAWAH						
## 45	CC	1	0	51	0	0
RAWAH						
## 46	CC	1	0	51	0	0
RAWAH						
## 47	CV	0	0	51	0	0
RAWAH						
## 48	CV	0	0	51	0	0
RAWAH						
## 49	CV	0	0	51	0	0
RAWAH						
## 50	F	1	0	51	0	0

RAWAH						
## 51	S	1	0	51	0	1
RAWAH						
## 52	S	1	0	51	0	1
RAWAH						
## 53	CC	1	0	51	0	1
RAWAH						
## 54	CC	0	0	51	0	0
RAWAH						
## 55	F	1	0	51	0	0
RAWAH						
## 56	F	0	0	51	0	0
RAWAH						
## 57	F	0	0	51	0	0
RAWAH						
## 58	CC	0	0	51	0	1
RAWAH						
## 59	S	0	1	51	0	0
RAWAH						
## 60	S	0	0	51	0	0
RAWAH						
## 61	CC	0	0	51	0	0
RAWAH						
## 62	F	0	0	51	0	0
RAWAH						
## 63	S	1	0	51	0	1
RAWAH						
## 64	CC	1	0	51	0	0
RAWAH						
## 65	S	1	0	51	0	0
RAWAH						
## 66	F	0	0	51	0	0
RAWAH						
## 67	CC	1	0	51	0	0
RAWAH						
## 68	F	0	0	51	0	1
RAWAH						
## 69	F	1	0	51	0	1
RAWAH						
## 70	F	1	0	51	0	0
RAWAH						
## 71	F	1	0	51	0	0

RAWAH						
## 72	F	0	0	51	0	0
RAWAH						
## 73	F	0	0	51	0	0
RAWAH						
## 74	F	0	0	51	0	0
RAWAH						
## 75	F	0	1	51	0	1
RAWAH						
## 76	F	0	1	51	0	0
RAWAH						
## 77	CV	0	0	51	0	0
RAWAH						
## 78	F	1	0	51	0	0
RAWAH						
## 79	CC	1	0	51	0	0
RAWAH						
## 80	F	0	0	7	0	0
FISH						
## 81	CC	0	0	12	0	0
FISH						
## 82	CC	0	0	19	0	0

FISH

## site.Number height Cluster UTM.Easting..13T. UTM.Northing  
Elevation Slope

## 1	7	27.0	RAWAH	427082.0	4499706
2710	-7				
## 2	7	26.0	RAWAH	427082.0	4499706
2710	-7				
## 3	7	30.0	RAWAH	427082.0	4499706
2710	-7				
## 4	7	21.0	RAWAH	427082.0	4499706
2710	-7				
## 5	7	17.0	RAWAH	427082.0	4499706
2710	-7				
## 6	7	31.0	RAWAH	427082.0	4499706
2710	-7				
## 7	7	26.0	RAWAH	427082.0	4499706
2710	-7				
## 8	7	16.0	RAWAH	427082.0	4499706
2710	-7				
## 9	7	17.0	RAWAH	427082.0	4499706

2710	-7					
## 10		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 11		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	44.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	42.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	22.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 18		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 19		7	24.0	RAWAH	427082.0	4499706
2710	-7					
## 20		7	19.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	11.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 27		7	23.0	RAWAH	427082.0	4499706
2710	-7					
## 28		7	13.0	RAWAH	427082.0	4499706
2710	-7					
## 29		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 30		7	27.0	RAWAH	427082.0	4499706

2710	-7					
## 31		7	14.0	RAWAH	427082.0	4499706
2710	-7					
## 32		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 33		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 34		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 35		7	54.0	RAWAH	427082.0	4499706
2710	-7					
## 36		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 37		7	37.0	RAWAH	427082.0	4499706
2710	-7					
## 38		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 39		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 40		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 41		7	18.0	RAWAH	427082.0	4499706
2710	-7					
## 42		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 43		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 44		7	39.0	RAWAH	427082.0	4499706
2710	-7					
## 45		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 46		7	35.0	RAWAH	427082.0	4499706
2710	-7					
## 47		7	11.0	RAWAH	427082.0	4499706
2710	-7					
## 48		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 49		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 50		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 51		7	30.0	RAWAH	427082.0	4499706



2710	-7					
## 52		7	39.0	RAWAH	427082.0	4499706
2710	-7					
## 53		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 54		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 55		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 56		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 57		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 58		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 59		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 60		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 61		7	20.0	RAWAH	427082.0	4499706
2710	-7					
## 62		7	40.0	RAWAH	427082.0	4499706
2710	-7					
## 63		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 64		7	60.0	RAWAH	427082.0	4499706
2710	-7					
## 65		7	45.0	RAWAH	427082.0	4499706
2710	-7					
## 66		7	51.0	RAWAH	427082.0	4499706
2710	-7					
## 67		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 68		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 69		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 70		7	43.0	RAWAH	427082.0	4499706
2710	-7					
## 71		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 72		7	47.0	RAWAH	427082.0	4499706

2710	-7					
## 73		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 74		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 75		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 76		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 77		7	32.0	RAWAH	427082.0	4499706
2710	-7					
## 78		19	14.0	RAWAH	427155.5	4498773
2751	-10					
## 79		19	1.5	RAWAH	427155.5	4498773
2751	-10					
## 80		28	15.0	FISH	454709.0	4496418
2571	-5					
## 81		28	20.0	FISH	454709.0	4496418
2571	-5					
## 82		28	17.0	FISH	454709.0	4496418
2571	-5					
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
Transect.B						
## 1	30		F			252
162						
## 2	30		F			252
162						
## 3	30		F			252
162						
## 4	30		F			252
162						
## 5	30		F			252
162						
## 6	30		F			252
162						
## 7	30		F			252
162						
## 8	30		F			252
162						
## 9	30		F			252
162						
## 10	30		F			252

162				
## 11	30	F		252
162				
## 12	30	F		252
162				
## 13	30	F		252
162				
## 14	30	F		252
162				
## 15	30	F		252
162				
## 16	30	F		252
162				
## 17	30	F		252
162				
## 18	30	F		252
162				
## 19	30	F		252
162				
## 20	30	F		252
162				
## 21	30	F		252
162				
## 22	30	F		252
162				
## 23	30	F		252
162				
## 24	30	F		252
162				
## 25	30	F		252
162				
## 26	30	F		252
162				
## 27	30	F		252
162				
## 28	30	F		252
162				
## 29	30	F		252
162				
## 30	30	F		252
162				
## 31	30	F		252

162				
## 32	30	F		252
162				
## 33	30	F		252
162				
## 34	30	F		252
162				
## 35	30	F		252
162				
## 36	30	F		252
162				
## 37	30	F		252
162				
## 38	30	F		252
162				
## 39	30	F		252
162				
## 40	30	F		252
162				
## 41	30	F		252
162				
## 42	30	F		252
162				
## 43	30	F		252
162				
## 44	30	F		252
162				
## 45	30	F		252
162				
## 46	30	F		252
162				
## 47	30	F		252
162				
## 48	30	F		252
162				
## 49	30	F		252
162				
## 50	30	F		252
162				
## 51	30	F		252
162				
## 52	30	F		252

162				
## 53	30	F		252
162				
## 54	30	F		252
162				
## 55	30	F		252
162				
## 56	30	F		252
162				
## 57	30	F		252
162				
## 58	30	F		252
162				
## 59	30	F		252
162				
## 60	30	F		252
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## 61	30	F		252
162				
## 62	30	F		252
162				
## 63	30	F		252
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## 64	30	F		252
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## 65	30	F		252
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## 66	30	F		252
162				
## 67	30	F		252
162				
## 68	30	F		252
162				
## 69	30	F		252
162				
## 70	30	F		252
162				
## 71	30	F		252
162				
## 72	30	F		252
162				
## 73	30	F		252

162			
## 74	30	F	252
162			
## 75	30	F	252
162			
## 76	30	F	252
162			
## 77	30	F	252
162			
## 78	84	F/S	356
264			
## 79	84	F/S	356
264			
## 80	286	CC	106
190			
## 81	286	CC	106
190			
## 82	286	CC	106
190			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1		51	25.0
## 2		51	25.0
## 3		51	25.0
## 4		51	25.0
## 5		51	25.0
## 6		51	25.0
## 7		51	25.0
## 8		51	25.0
## 9		51	25.0
## 10		51	25.0
## 11		51	25.0
## 12		51	25.0
## 13		51	25.0
## 14		51	25.0
## 15		51	25.0
## 16		51	25.0
## 17		51	25.0
## 18		51	25.0
## 19		51	25.0
## 20		51	25.0
## 21		51	25.0

## 22	51	25.0
## 23	51	25.0
## 24	51	25.0
## 25	51	25.0
## 26	51	25.0
## 27	51	25.0
## 28	51	25.0
## 29	51	25.0
## 30	51	25.0
## 31	51	25.0
## 32	51	25.0
## 33	51	25.0
## 34	51	25.0
## 35	51	25.0
## 36	51	25.0
## 37	51	25.0
## 38	51	25.0
## 39	51	25.0
## 40	51	25.0
## 41	51	25.0
## 42	51	25.0
## 43	51	25.0
## 44	51	25.0
## 45	51	25.0
## 46	51	25.0
## 47	51	25.0
## 48	51	25.0
## 49	51	25.0
## 50	51	25.0
## 51	51	25.0
## 52	51	25.0
## 53	51	25.0
## 54	51	25.0
## 55	51	25.0
## 56	51	25.0
## 57	51	25.0
## 58	51	25.0
## 59	51	25.0
## 60	51	25.0
## 61	51	25.0

## 62	51	25.0
## 63	51	25.0
## 64	51	25.0
## 65	51	25.0
## 66	51	25.0
## 67	51	25.0
## 68	51	25.0
## 69	51	25.0
## 70	51	25.0
## 71	51	25.0
## 72	51	25.0
## 73	51	25.0
## 74	51	25.0
## 75	51	25.0
## 76	51	25.0
## 77	51	25.0
## 78	51	35.0
## 79	51	35.0
## 80	51	5.4
## 81	51	5.4
## 82	51	5.4

#browse

```
browse <- compiled %>% filter(Browse == "1")
no_browse <- compiled %>% filter(Browse == "0")
```

browse

##	SITE..	seedling	SITE.NAME	Transect	Subplot	Height..cm.	Substrate
## 1	6	9	LAKE	A	14-16	15.0	A
F							
## 2	6	12	LAKE	A	16-18	39.0	M
S							
## 3	7	14	RAWAH	A	0-2	27.0	B/M
CC							
## 4	7	27	RAWAH	A	0-2	42.0	M
CC							
## 5	7	29	RAWAH	B	14-16	22.0	A
F							
## 6	7	30	RAWAH	B	14-16	19.0	A



F	##	7	7	45	RAWAH	B	36-38	20.0	A
F	##	8	7	64	RAWAH	B	42-44	30.0	W
S	##	9	7	65	RAWAH	B	42-44	39.0	W
S	##	10	7	66	RAWAH	B	42-44	25.0	B/M
CC	##	11	7	71	RAWAH	B	42-44	26.0	M
F	##	12	7	76	RAWAH	B	44-46	34.0	B/M
S	##	13	7	81	RAWAH	B	46-48	29.0	M
F	##	14	7	82	RAWAH	B	46-48	8.0	M
CC	##	15	7	88	RAWAH	B	48-50	17.0	M
CV	##	16	20	112	SNOW	A	2-4	10.0	A/B
F	##	17	20	113	SNOW	A	2-4	7.0	A/B
S	##	18	20	114	SNOW	A	2-4	12.0	A/B
F	##	19	20	115	SNOW	A	2-4	18.0	A/B
F	##	20	20	116	SNOW	A	2-4	15.5	A/B
F	##	21	20	118	SNOW	A	2-4	22.0	A/B
CV	##	22	20	120	SNOW	A	4-6	12.0	A/B
S	##	23	20	121	SNOW	A	4-6	7.0	A/B
S	##	24	20	122	SNOW	A	4-6	8.0	A/B
S	##	25	20	124	SNOW	A	4-6	9.5	A
CV	##	26	20	126	SNOW	A	4-6	11.0	B
S	##	27	20	128	SNOW	A	4-6	12.0	A/B

S								
##	28	20	129	SNOW	A	4-6	9.0	B
S								
##	29	20	130	SNOW	A	4-6	8.5	A/B
S								
##	30	20	136	SNOW	B	12-14	12.0	B/M
F								
##	31	20	145	SNOW	B	18-20	11.5	A
CC								
##	32	20	146	SNOW	B	18-20	11.0	A
CC								
##	33	20	147	SNOW	B	18-20	8.0	A
CC								
##	34	20	151	SNOW	B	18-20	22.5	A
CC								
##	35	20	152	SNOW	B	18-20	12.5	A
S								
##	36	20	153	SNOW	B	18-20	17.5	A
CC								
##	37	20	154	SNOW	B	18-20	17.5	A
CC								
##	38	20	155	SNOW	B	18-20	11.5	A
S								
##	39	20	156	SNOW	B	18-20	7.5	B
CV								
##	40	20	157	SNOW	B	18-20	12.0	B
CV								
##	41	20	158	SNOW	B	18-20	23.5	B
CC								
##	42	20	159	SNOW	B	18-20	18.5	A/B
CC								
##	43	20	160	SNOW	B	18-20	9.5	A
CC								
##	44	20	161	SNOW	B	18-20	13.5	A
CV								
##	45	20	162	SNOW	B	18-20	18.0	A
S								
##	46	20	163	SNOW	B	18-20	31.5	A
CV								
##	47	20	164	SNOW	B	20-22	19.5	M
S								
##	48	20	165	SNOW	B	20-22	22.0	A

CV								
##	49	20	166	SNOW	B	20-22	18.5	A
S								
##	50	20	167	SNOW	B	20-22	29.5	A
CC								
##	51	21	170	LONG	A	42-44	21.5	A/L
F								
##	52	21	171	LONG	A	48-50	21.0	A/B
CC								
##	53	23	180	MONTY	A	32-34	7.9	A
CC								
##	54	23	181	MONTY	A	32-34	8.8	A
CV								
##	55	23	182	MONTY	A	32-34	8.0	A
CV								
##	56	23	184	MONTY	A	32-34	6.0	A
CV								
##	57	23	185	MONTY	A	32-34	14.0	A
CV								
##	58	23	193	MONTY	A	34-36	4.3	A/L
CV								
##	59	23	198	MONTY	A	36-38	5.6	A
CV								
##	60	23	199	MONTY	A	36-38	7.2	A
CV								
##	61	24	207	MONTY	A	22-24	4.8	A
F								
##	62	25	209	LONG	A	0-2	4.2	A
F								
##	63	25	253	LONG	A	14-16	3.5	A
F								
##	64	25	254	LONG	A	14-16	2.9	A
F								
##	65	25	256	LONG	A	16-18	8.8	M
F								
##	66	25	260	LONG	A	16-18	10.0	B/M
S								
##	67	25	266	LONG	A	24-26	4.0	M
F								
##	68	26	271	LONG	A	24-26	11.4	A
CC								
##	69	26	273	LONG	A	26-28	4.7	A

F								
##	70	26	277	LONG	A	30-32	9.4	A/L
F								
##	71	26	279	LONG	A	36-38	15.3	A
F								
##	72	26	281	LONG	A	40-42	7.4	A
F								
##	73	27	288	LONG	A	0-2	5.6	A
F								
##	74	27	293	LONG	B	0-2	22.4	A
S								
##	75	27	295	LONG	B	0-2	14.9	B
CV								
##	76	27	298	LONG	B	34-36	15.5	A
S								
##	77	30	306	FISH	A	34-36	16.0	L
F								
##	78	35	345	CAM	B	4-6	24.8	A/B
CV								
##	79	36	364	CAM	A	48-50	18.1	B/M
CC								
##	80	36	376	CAM	B	36-38	10.5	B
CC								
##	81	36	380	CAM	B	36-38	20.4	A
CC								
##	82	36	387	CAM	B	40-42	18.6	B
CC								
##	83	36	388	CAM	B	40-42	15.9	B
CC								
##	84	36	398	CAM	B	42-44	15.1	A/B
S								
##	85	36	399	CAM	B	42-44	4.4	A
S								
##	86	38	411	CAM	A	4-6	17.1	B
S								
##	87	38	429	CAM	A	16-18	8.4	B
CC								
##	88	38	431	CAM	A	16-18	6.1	B
CC								
##	89	38	437	CAM	A	16-18	5.1	B
F								
##	90	38	479	CAM	A	34-36	8.3	B

F							
## 91	38	535	CAM	B	40-42	8.8	B
F							
## 92	38	557	CAM	B	50-52	11.6	B
S							
## 93	38	560	CAM	B	50-52	19.0	B
S							
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse	
site.name							
## 1	F	1	0	51	0	1	
LAKE							
## 2	S	1	0	51	0	1	
LAKE							
## 3	S	0	0	51	0	1	
RAWAH							
## 4	CC	0	0	51	0	1	
RAWAH							
## 5	F	0	0	51	0	1	
RAWAH							
## 6	F	0	0	51	0	1	
RAWAH							
## 7	F	1	0	51	0	1	
RAWAH							
## 8	S	1	0	51	0	1	
RAWAH							
## 9	S	1	0	51	0	1	
RAWAH							
## 10	CC	1	0	51	0	1	
RAWAH							
## 11	CC	0	0	51	0	1	
RAWAH							
## 12	S	1	0	51	0	1	
RAWAH							
## 13	F	0	0	51	0	1	
RAWAH							
## 14	F	1	0	51	0	1	
RAWAH							
## 15	F	0	1	51	0	1	
RAWAH							
## 16	CC	1	1	51	0	1	
SNOW							
## 17	CC	1	1	51	0	1	

SNOW						
## 18	CC	1	1	51	0	1
SNOW						
## 19	CC	1	1	51	0	1
SNOW						
## 20	CC	1	0	51	0	1
SNOW						
## 21	CC	1	0	51	0	1
SNOW						
## 22	CC	0	0	51	0	1
SNOW						
## 23	CC	0	0	51	0	1
SNOW						
## 24	CC	0	0	51	0	1
SNOW						
## 25	CC	0	0	51	0	1
SNOW						
## 26	CC	0	0	51	0	1
SNOW						
## 27	CC	0	0	51	0	1
SNOW						
## 28	CC	0	0	51	0	1
SNOW						
## 29	CC	0	0	51	0	1
SNOW						
## 30	CC	1	1	51	0	1
SNOW						
## 31	S	0	0	51	0	1
SNOW						
## 32	S	0	0	51	0	1
SNOW						
## 33	S	0	0	51	0	1
SNOW						
## 34	S	0	0	51	0	1
SNOW						
## 35	S	0	0	51	0	1
SNOW						
## 36	S	0	0	51	0	1
SNOW						
## 37	S	0	0	51	0	1
SNOW						
## 38	S	0	0	51	0	1

SNOW						
## 39	S	0	0	51	0	1
SNOW						
## 40	S	0	0	51	0	1
SNOW						
## 41	S	0	0	51	0	1
SNOW						
## 42	CC	0	0	51	0	1
SNOW						
## 43	F	1	1	51	0	1
SNOW						
## 44	S	1	0	51	0	1
SNOW						
## 45	S	0	0	51	0	1
SNOW						
## 46	S	1	0	51	0	1
SNOW						
## 47	S	0	0	51	0	1
SNOW						
## 48	S	0	0	51	0	1
SNOW						
## 49	S	1	0	51	0	1
SNOW						
## 50	S	1	0	51	0	1
SNOW						
## 51	CC	0	1	51	0	1
LONG						
## 52	F	1	0	51	0	1
LONG						
## 53	CC	0	0	51	0	1
MONTY						
## 54	CC	0	1	51	0	1
MONTY						
## 55	CC	0	0	51	0	1
MONTY						
## 56	CC	0	0	51	0	1
MONTY						
## 57	CC	0	0	51	0	1
MONTY						
## 58	CC	0	0	51	0	1
MONTY						
## 59	CC	0	0	51	0	1

MONTY							
## 60	CC	0	0	51	0	1	
MONTY							
## 61	CC	1	1	51	0	1	
MONTY							
## 62	F	1	0	51	0	1	
LONG							
## 63	F	1	0	51	0	1	
LONG							
## 64	S	0	0	51	0	1	
LONG							
## 65	CC	1	0	51	0	1	
LONG							
## 66	CC	1	0	51	0	1	
LONG							
## 67	F	0	0	51	0	1	
LONG							
## 68	CC	1	0	51	0	1	
LONG							
## 69	F	0	0	51	0	1	
LONG							
## 70	F	1	0	51	0	1	
LONG							
## 71	CC	1	0	51	0	1	
LONG							
## 72	CC	0	0	51	0	1	
LONG							
## 73	F	0	0	51	0	1	
LONG							
## 74	S	0	0	51	0	1	
LONG							
## 75	S	0	0	51	0	1	
LONG							
## 76	CC	1	0	51	0	1	
LONG							
## 77	F	1	0	51	0	1	
FISH							
## 78	CC	0	1	51	0	1	
CAM							
## 79	CC	0	0	51	0	1	
CAM							
## 80	F	1	0	51	0	1	



CAM						
## 81	CC	0	0	51	0	1
CAM						
## 82	S	1	0	51	0	1
CAM						
## 83	S	1	0	51	0	1
CAM						
## 84	S	1	0	51	0	1
CAM						
## 85	S	1	0	51	0	1
CAM						
## 86	CC	0	0	51	0	1
CAM						
## 87	F	0	0	51	0	1
CAM						
## 88	F	0	0	51	0	1
CAM						
## 89	F	1	0	51	0	1
CAM						
## 90	F	1	0	51	0	1
CAM						
## 91	CV	0	0	51	0	1
CAM						
## 92	CC	0	0	51	0	1
CAM						
## 93	CC	0	0	51	0	1
CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
Elevation	Slope					
## 1	6	15.0	LAKE	427647.0	4493988	
2835	-6					
## 2	6	39.0	LAKE	427647.0	4493988	
2835	-6					
## 3	7	27.0	RAWAH	427082.0	4499706	
2710	-7					
## 4	7	42.0	RAWAH	427082.0	4499706	
2710	-7					
## 5	7	22.0	RAWAH	427082.0	4499706	
2710	-7					
## 6	7	19.0	RAWAH	427082.0	4499706	
2710	-7					
## 7	7	20.0	RAWAH	427082.0	4499706	

2710	-7					
## 8		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 9		7	39.0	RAWAH	427082.0	4499706
2710	-7					
## 10		7	25.0	RAWAH	427082.0	4499706
2710	-7					
## 11		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 12		7	34.0	RAWAH	427082.0	4499706
2710	-7					
## 13		7	29.0	RAWAH	427082.0	4499706
2710	-7					
## 14		7	8.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 16		20	10.0	SNOW	426996.6	4492304
2959	-10					
## 17		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 18		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 19		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 20		20	15.5	SNOW	426996.6	4492304
2959	-10					
## 21		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 22		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 23		20	7.0	SNOW	426996.6	4492304
2959	-10					
## 24		20	8.0	SNOW	426996.6	4492304
2959	-10					
## 25		20	9.5	SNOW	426996.6	4492304
2959	-10					
## 26		20	11.0	SNOW	426996.6	4492304
2959	-10					
## 27		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 28		20	9.0	SNOW	426996.6	4492304

2959	-10					
## 29		20	8.5	SNOW	426996.6	4492304
2959	-10					
## 30		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 31		20	11.5	SNOW	426996.6	4492304
2959	-10					
## 32		20	11.0	SNOW	426996.6	4492304
2959	-10					
## 33		20	8.0	SNOW	426996.6	4492304
2959	-10					
## 34		20	22.5	SNOW	426996.6	4492304
2959	-10					
## 35		20	12.5	SNOW	426996.6	4492304
2959	-10					
## 36		20	17.5	SNOW	426996.6	4492304
2959	-10					
## 37		20	17.5	SNOW	426996.6	4492304
2959	-10					
## 38		20	11.5	SNOW	426996.6	4492304
2959	-10					
## 39		20	7.5	SNOW	426996.6	4492304
2959	-10					
## 40		20	12.0	SNOW	426996.6	4492304
2959	-10					
## 41		20	23.5	SNOW	426996.6	4492304
2959	-10					
## 42		20	18.5	SNOW	426996.6	4492304
2959	-10					
## 43		20	9.5	SNOW	426996.6	4492304
2959	-10					
## 44		20	13.5	SNOW	426996.6	4492304
2959	-10					
## 45		20	18.0	SNOW	426996.6	4492304
2959	-10					
## 46		20	31.5	SNOW	426996.6	4492304
2959	-10					
## 47		20	19.5	SNOW	426996.6	4492304
2959	-10					
## 48		20	22.0	SNOW	426996.6	4492304
2959	-10					
## 49		20	18.5	SNOW	426996.6	4492304

2959	-10					
## 50		20	29.5	SNOW	426996.6	4492304
2959	-10					
## 51		21	21.5	LONG	429815.3	4490511
3029	-1					
## 52		21	21.0	LONG	429815.3	4490511
3029	-1					
## 53		23	7.9	MONTY	424655.0	4489019
3259	-13					
## 54		23	8.8	MONTY	424655.0	4489019
3259	-13					
## 55		23	8.0	MONTY	424655.0	4489019
3259	-13					
## 56		23	6.0	MONTY	424655.0	4489019
3259	-13					
## 57		23	14.0	MONTY	424655.0	4489019
3259	-13					
## 58		23	4.3	MONTY	424655.0	4489019
3259	-13					
## 59		23	5.6	MONTY	424655.0	4489019
3259	-13					
## 60		23	7.2	MONTY	424655.0	4489019
3259	-13					
## 61		24	4.8	MONTY	424640.0	4488778
3199	-12					
## 62		25	4.2	LONG	431465.0	4490417
3068	-7					
## 63		25	3.5	LONG	431465.0	4490417
3068	-7					
## 64		25	2.9	LONG	431465.0	4490417
3068	-7					
## 65		25	8.8	LONG	431465.0	4490417
3068	-7					
## 66		25	10.0	LONG	431465.0	4490417
3068	-7					
## 67		25	4.0	LONG	431465.0	4490417
3068	-7					
## 68		26	11.4	LONG	431200.0	4490450
3099	-48					
## 69		26	4.7	LONG	431200.0	4490450
3099	-48					
## 70		26	9.4	LONG	431200.0	4490450

3099	-48					
## 71		26	15.3	LONG	431200.0	4490450
3099	-48					
## 72		26	7.4	LONG	431200.0	4490450
3099	-48					
## 73		27	5.6	LONG	430929.0	4490476
3090	-11					
## 74		27	22.4	LONG	430929.0	4490476
3090	-11					
## 75		27	14.9	LONG	430929.0	4490476
3090	-11					
## 76		27	15.5	LONG	430929.0	4490476
3090	-11					
## 77		30	16.0	FISH	455545.0	4496202
2462	-5					
## 78		35	24.8	CAM	434642.0	4485999
3093	-5					
## 79		36	18.1	CAM	434021.0	4485004
3020	-10					
## 80		36	10.5	CAM	434021.0	4485004
3020	-10					
## 81		36	20.4	CAM	434021.0	4485004
3020	-10					
## 82		36	18.6	CAM	434021.0	4485004
3020	-10					
## 83		36	15.9	CAM	434021.0	4485004
3020	-10					
## 84		36	15.1	CAM	434021.0	4485004
3020	-10					
## 85		36	4.4	CAM	434021.0	4485004
3020	-10					
## 86		38	17.1	CAM	434173.0	4486246
3154	-4					
## 87		38	8.4	CAM	434173.0	4486246
3154	-4					
## 88		38	6.1	CAM	434173.0	4486246
3154	-4					
## 89		38	5.1	CAM	434173.0	4486246
3154	-4					
## 90		38	8.3	CAM	434173.0	4486246
3154	-4					
## 91		38	8.8	CAM	434173.0	4486246

3154	-4					
## 92		38	11.6	CAM	434173.0	4486246
3154	-4					
## 93		38	19.0	CAM	434173.0	4486246
3154	-4					
##	Aspect	Topographic.Position	Transect.A..ORIENTATION.DEGREES.			
Transect.B						
## 1	173			CC		18
108						
## 2	173			CC		18
108						
## 3	30			F		252
162						
## 4	30			F		252
162						
## 5	30			F		252
162						
## 6	30			F		252
162						
## 7	30			F		252
162						
## 8	30			F		252
162						
## 9	30			F		252
162						
## 10	30			F		252
162						
## 11	30			F		252
162						
## 12	30			F		252
162						
## 13	30			F		252
162						
## 14	30			F		252
162						
## 15	30			F		252
162						
## 16	12			CV		228
312						
## 17	12			CV		228
312						
## 18	12			CV		228

312				
## 19	12	CV		228
312				
## 20	12	CV		228
312				
## 21	12	CV		228
312				
## 22	12	CV		228
312				
## 23	12	CV		228
312				
## 24	12	CV		228
312				
## 25	12	CV		228
312				
## 26	12	CV		228
312				
## 27	12	CV		228
312				
## 28	12	CV		228
312				
## 29	12	CV		228
312				
## 30	12	CV		228
312				
## 31	12	CV		228
312				
## 32	12	CV		228
312				
## 33	12	CV		228
312				
## 34	12	CV		228
312				
## 35	12	CV		228
312				
## 36	12	CV		228
312				
## 37	12	CV		228
312				
## 38	12	CV		228
312				
## 39	12	CV		228

312				
## 40	12	CV		228
312				
## 41	12	CV		228
312				
## 42	12	CV		228
312				
## 43	12	CV		228
312				
## 44	12	CV		228
312				
## 45	12	CV		228
312				
## 46	12	CV		228
312				
## 47	12	CV		228
312				
## 48	12	CV		228
312				
## 49	12	CV		228
312				
## 50	12	CV		228
312				
## 51	298	CC		288
210				
## 52	298	CC		288
210				
## 53	194	F/S		46
316				
## 54	194	F/S		46
316				
## 55	194	F/S		46
316				
## 56	194	F/S		46
316				
## 57	194	F/S		46
316				
## 58	194	F/S		46
316				
## 59	194	F/S		46
316				
## 60	194	F/S		46



316			
## 61	160	F/S	184
90			
## 62	130	F	222
310			
## 63	130	F	222
310			
## 64	130	F	222
310			
## 65	130	F	222
310			
## 66	130	F	222
310			
## 67	130	F	222
310			
## 68	240	CC	210
120			
## 69	240	CC	210
120			
## 70	240	CC	210
120			
## 71	240	CC	210
120			
## 72	240	CC	210
120			
## 73	120	S	280
110			
## 74	120	S	280
110			
## 75	120	S	280
110			
## 76	120	S	280
110			
## 77	58	F	146
54			
## 78	90	CC	72
164			
## 79	216	F/S	166
74			
## 80	216	F/S	166
74			
## 81	216	F/S	166

74			
## 82	216	F/S	166
74			
## 83	216	F/S	166
74			
## 84	216	F/S	166
74			
## 85	216	F/S	166
74			
## 86	190	F/S	56
142			
## 87	190	F/S	56
142			
## 88	190	F/S	56
142			
## 89	190	F/S	56
142			
## 90	190	F/S	56
142			
## 91	190	F/S	56
142			
## 92	190	F/S	56
142			
## 93	190	F/S	56
142			
##	Distance.to.nearest.live.aspen	Distance.to.nearest.dead.aspen	
## 1	51		51
## 2	51		51
## 3	51		25
## 4	51		25
## 5	51		25
## 6	51		25
## 7	51		25
## 8	51		25
## 9	51		25
## 10	51		25
## 11	51		25
## 12	51		25
## 13	51		25
## 14	51		25
## 15	51		25

## 16	51	51
## 17	51	51
## 18	51	51
## 19	51	51
## 20	51	51
## 21	51	51
## 22	51	51
## 23	51	51
## 24	51	51
## 25	51	51
## 26	51	51
## 27	51	51
## 28	51	51
## 29	51	51
## 30	51	51
## 31	51	51
## 32	51	51
## 33	51	51
## 34	51	51
## 35	51	51
## 36	51	51
## 37	51	51
## 38	51	51
## 39	51	51
## 40	51	51
## 41	51	51
## 42	51	51
## 43	51	51
## 44	51	51
## 45	51	51
## 46	51	51
## 47	51	51
## 48	51	51
## 49	51	51
## 50	51	51
## 51	65	51
## 52	65	51
## 53	51	51
## 54	51	51
## 55	51	51

## 56	51	51
## 57	51	51
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## 61	51	51
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## 65	51	51
## 66	51	51
## 67	51	51
## 68	51	51
## 69	51	51
## 70	51	51
## 71	51	51
## 72	51	51
## 73	51	51
## 74	51	51
## 75	51	51
## 76	51	51
## 77	51	51
## 78	51	51
## 79	51	51
## 80	51	51
## 81	51	51
## 82	51	51
## 83	51	51
## 84	51	51
## 85	51	51
## 86	51	51
## 87	51	51
## 88	51	51
## 89	51	51
## 90	51	51
## 91	51	51
## 92	51	51
## 93	51	51

```
tapapply(browse$Height..cm., browse$SITE.., summary)
```

```

## $`6`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##       15      21      27       27      33      39
##
## $`7`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##       8      20      26       26      30      42
##
## $`20`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##     7.00    9.75    12.00    14.54    18.25    31.50
##
## $`21`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##    21.00    21.12    21.25    21.25    21.38    21.50
##
## $`23`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##    4.300    5.900    7.550    7.725    8.200    14.000
##
## $`24`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##       4.8      4.8      4.8       4.8      4.8      4.8
##
## $`25`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##    2.900    3.625    4.100    5.567    7.650    10.000
##
## $`26`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##    4.70     7.40     9.40     9.64    11.40    15.30
##
## $`27`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##    5.60    12.57    15.20    14.60    17.23    22.40
##
## $`30`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      16      16      16       16      16      16
##

```

```
## $`35`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      24.8   24.8   24.8   24.8   24.8   24.8
##
## $`36`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      4.40   12.80   15.90   14.71   18.35   20.40
##
## $`38`
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      5.10    7.75    8.60   10.55   12.97   19.00
```

compiled

```
##      SITE.. seedling SITE.NAME Transect Subplot Height..cm.
Substrate Small.Topo
## 1      1      1  ELKHORN      A      8-10      25.0
L      F
## 2      1      2  ELKHORN      A      38-40      30.0
M      F
## 3      1      3  ELKHORN      B      12-14      25.0
M      F
## 4      2      4      FISH      N/A      NA
## 5      3      5      FISH      N/A      NA
## 6      4      6      LAKE      N/A      NA
## 7      5      7      LAKE      A      14-16      20.5
M      CC
## 8      6      8      LAKE      A      2-4      44.0
M      CC
## 9      6      9      LAKE      A      14-16      15.0
A      F
## 10     6      10     LAKE      A      14-16      6.0
A      CC
## 11     6      11     LAKE      A      14-16      3.5
A      F
## 12     6      12     LAKE      A      16-18      39.0
M      S
## 13     6      13     LAKE      A      16-18      18.0
M      F
## 14     7      14     RAWAH      A      0-2      27.0      B/
M      CC
## 15     7      15     RAWAH      A      0-2      26.0      B/
```

M	F						
## 16	7	16	RAWAH	A	0-2	30.0	B/
M	F						
## 17	7	17	RAWAH	A	0-2	21.0	B/
M	F						
## 18	7	18	RAWAH	A	0-2	17.0	B/
M	S						
## 19	7	19	RAWAH	A	0-2	31.0	B/
M	S						
## 20	7	20	RAWAH	A	0-2	26.0	B/
M	CC						
## 21	7	21	RAWAH	A	0-2	16.0	B/
M	S						
## 22	7	22	RAWAH	A	0-2	17.0	B/
M	CC						
## 23	7	23	RAWAH	A	0-2	28.0	B/
M	CC						
## 24	7	24	RAWAH	A	0-2	28.0	B/
M	CC						
## 25	7	25	RAWAH	A	0-2	44.0	B/
M	CC						
## 26	7	26	RAWAH	A	0-2	15.0	
M	CC						
## 27	7	27	RAWAH	A	0-2	42.0	
M	CC						
## 28	7	28	RAWAH	A	16-18	21.0	A/
M	F						
## 29	7	29	RAWAH	B	14-16	22.0	
A	F						
## 30	7	30	RAWAH	B	14-16	19.0	
A	F						
## 31	7	31	RAWAH	B	14-16	26.0	
A	F						
## 32	7	32	RAWAH	B	14-16	24.0	
A	F						
## 33	7	33	RAWAH	B	16-18	19.0	
A	CC						
## 34	7	34	RAWAH	B	16-18	18.0	
A	CC						
## 35	7	35	RAWAH	B	16-18	11.0	
A	CC						
## 36	7	36	RAWAH	B	30-32	21.0	B/

M	F						
## 37	7	37	RAWAH	B	30-32	31.0	B/
M	F						
## 38	7	38	RAWAH	B	30-32	35.0	B/
M	F						
## 39	7	39	RAWAH	B	30-32	31.0	B/
M	F						
## 40	7	40	RAWAH	B	34-36	23.0	
A	S						
## 41	7	41	RAWAH	B	34-36	13.0	
A	CV						
## 42	7	42	RAWAH	B	34-36	29.0	
A	CV						
## 43	7	43	RAWAH	B	36-38	27.0	
M	CC						
## 44	7	44	RAWAH	B	36-38	14.0	
A	F						
## 45	7	45	RAWAH	B	36-38	20.0	
A	F						
## 46	7	46	RAWAH	B	38-40	26.0	
M	F						
## 47	7	47	RAWAH	B	38-40	30.0	
M	F						
## 48	7	48	RAWAH	B	38-40	54.0	
M	F						
## 49	7	49	RAWAH	B	40-42	26.0	
A	CC						
## 50	7	50	RAWAH	B	42-44	37.0	B/
M	F						
## 51	7	51	RAWAH	B	42-44	29.0	
M	CC						
## 52	7	52	RAWAH	B	42-44	18.0	B/
M	CC						
## 53	7	53	RAWAH	B	42-44	17.0	B/
M	CC						
## 54	7	54	RAWAH	B	42-44	18.0	B/
M	CC						
## 55	7	55	RAWAH	B	42-44	15.0	B/
M	CC						
## 56	7	56	RAWAH	B	42-44	25.0	B/
M	CC						
## 57	7	57	RAWAH	B	42-44	39.0	B/



M	CC						
## 58	7	58	RAWAH	B	42-44	28.0	B/
M	CC						
## 59	7	59	RAWAH	B	42-44	35.0	
M	CC						
## 60	7	60	RAWAH	B	42-44	11.0	
B	CV						
## 61	7	61	RAWAH	B	42-44	15.0	
B	CV						
## 62	7	62	RAWAH	B	42-44	8.0	
B	CV						
## 63	7	63	RAWAH	B	42-44	30.0	
W	S						
## 64	7	64	RAWAH	B	42-44	30.0	
W	S						
## 65	7	65	RAWAH	B	42-44	39.0	
W	S						
## 66	7	66	RAWAH	B	42-44	25.0	B/
M	CC						
## 67	7	67	RAWAH	B	42-44	16.0	
M	F						
## 68	7	68	RAWAH	B	42-44	25.0	
W	F						
## 69	7	69	RAWAH	B	42-44	25.0	
M	F						
## 70	7	70	RAWAH	B	42-44	17.0	
M	F						
## 71	7	71	RAWAH	B	42-44	26.0	
M	F						
## 72	7	72	RAWAH	B	42-44	26.0	
B	CC						
## 73	7	73	RAWAH	B	42-44	16.0	B/
M	S						
## 74	7	74	RAWAH	B	42-44	20.0	
M	S						
## 75	7	75	RAWAH	B	42-44	40.0	
M	F						
## 76	7	76	RAWAH	B	44-46	34.0	B/
M	S						
## 77	7	77	RAWAH	B	44-46	60.0	B/
M	S						
## 78	7	78	RAWAH	B	44-46	45.0	B/

M	CC						
## 79	7	79	RAWAH	B	44-46	51.0	
M	F						
## 80	7	80	RAWAH	B	46-48	26.0	
M	F						
## 81	7	81	RAWAH	B	46-48	29.0	
M	F						
## 82	7	82	RAWAH	B	46-48	8.0	
M	CC						
## 83	7	83	RAWAH	B	46-48	43.0	
M	S						
## 84	7	84	RAWAH	B	46-48	15.0	
M	S						
## 85	7	85	RAWAH	B	46-48	47.0	
M	CC						
## 86	7	86	RAWAH	B	46-48	32.0	
M	CC						
## 87	7	87	RAWAH	B	46-48	34.0	
B	F						
## 88	7	88	RAWAH	B	48-50	17.0	
M	CV						
## 89	7	89	RAWAH	B	48-50	26.0	
M	CV						
## 90	7	90	RAWAH	B	48-50	32.0	
M	CV						
## 91	8	91	RAWAH	A	0-2	9.0	
M	S						
## 92	8	92	RAWAH	A	40-42	24.0	
L	F						
## 93	8	93	RAWAH	B	40-42	9.0	
A	F						
## 94	9	94	BLUE	N/A		NA	
## 95	10	95	BLUE	N/A		NA	
## 96	11	96	BLUE	A	20-22	29.0	A/
M	S						
## 97	11	97	BLUE	A	26-28	25.0	A/
M	CC						
## 98	12	98	BLUE	A	0-2	28.0	
M	S						
## 99	12	99	BLUE	A	0-2	16.0	
M	S						

## 100	12	100	BLUE	A	0-2	6.0	
M	S						
## 101	13	101	RES	N/A		NA	
## 102	14	102	RES	B	16-18	10.0	
M	CC						
## 103	15	103	RES	N/A		NA	
## 104	16	104	RES	N/A		NA	
## 105	17	105	RAWAH	B	40-42	6.0	
M	CC						
## 106	18	106	RAWAH	N/A		NA	
## 107	19	107	RAWAH	A	0-2	14.0	
A	CC						
## 108	19	108	RAWAH	A	0-2	1.5	
A	CC						
## 109	20	109	SNOW	A	2-4	39.0	A/
B	S						
## 110	20	110	SNOW	A	2-4	19.0	A/
B	S						
## 111	20	111	SNOW	A	2-4	3.0	A/
B	S						
## 112	20	112	SNOW	A	2-4	10.0	A/
B	F						
## 113	20	113	SNOW	A	2-4	7.0	A/
B	S						
## 114	20	114	SNOW	A	2-4	12.0	A/
B	F						
## 115	20	115	SNOW	A	2-4	18.0	A/
B	F						
## 116	20	116	SNOW	A	2-4	15.5	A/
B	F						
## 117	20	117	SNOW	A	2-4	20.0	A/
B	CC						
## 118	20	118	SNOW	A	2-4	22.0	A/
B	CV						
## 119	20	119	SNOW	A	4-6	6.0	
M	S						
## 120	20	120	SNOW	A	4-6	12.0	A/
B	S						
## 121	20	121	SNOW	A	4-6	7.0	A/
B	S						
## 122	20	122	SNOW	A	4-6	8.0	A/

B	S							
## 123	20	123	SNOW	A	4-6	9.0	A/	
B	CV							
## 124	20	124	SNOW	A	4-6	9.5		
A	CV							
## 125	20	125	SNOW	A	4-6	11.0		
A	CV							
## 126	20	126	SNOW	A	4-6	11.0		
B	S							
## 127	20	127	SNOW	A	4-6	18.0		
B	CC							
## 128	20	128	SNOW	A	4-6	12.0	A/	
B	S							
## 129	20	129	SNOW	A	4-6	9.0		
B	S							
## 130	20	130	SNOW	A	4-6	8.5	A/	
B	S							
## 131	20	131	SNOW	A	8-10	22.0		
A	F							
## 132	20	132	SNOW	B	10-12	4.5		
B	CV							
## 133	20	133	SNOW	B	10-12	7.0	A/	
B	F							
## 134	20	134	SNOW	B	10-12	15.0	B/	
M	CV							
## 135	20	135	SNOW	B	12-14	27.5		
B	F							
## 136	20	136	SNOW	B	12-14	12.0	B/	
M	F							
## 137	20	137	SNOW	B	14-16	17.0	L/	
M	F							
## 138	20	138	SNOW	B	16-18	15.5		
A	CC							
## 139	20	139	SNOW	B	16-18	17.0		
A	F							
## 140	20	140	SNOW	B	16-18	6.5		
A	F							
## 141	20	141	SNOW	B	16-18	4.0		
A	F							
## 142	20	142	SNOW	B	18-20	20.5		
A	CC							
## 143	20	143	SNOW	B	18-20	18.5	A/	

B	CC						
## 144	20	144	SNOW	B	18-20	5.5	
A	CC						
## 145	20	145	SNOW	B	18-20	11.5	
A	CC						
## 146	20	146	SNOW	B	18-20	11.0	
A	CC						
## 147	20	147	SNOW	B	18-20	8.0	
A	CC						
## 148	20	148	SNOW	B	18-20	13.5	
A	S						
## 149	20	149	SNOW	B	18-20	1.5	
A	CC						
## 150	20	150	SNOW	B	18-20	16.0	
A	S						
## 151	20	151	SNOW	B	18-20	22.5	
A	CC						
## 152	20	152	SNOW	B	18-20	12.5	
A	S						
## 153	20	153	SNOW	B	18-20	17.5	
A	CC						
## 154	20	154	SNOW	B	18-20	17.5	
A	CC						
## 155	20	155	SNOW	B	18-20	11.5	
A	S						
## 156	20	156	SNOW	B	18-20	7.5	
B	CV						
## 157	20	157	SNOW	B	18-20	12.0	
B	CV						
## 158	20	158	SNOW	B	18-20	23.5	
B	CC						
## 159	20	159	SNOW	B	18-20	18.5	A/
B	CC						
## 160	20	160	SNOW	B	18-20	9.5	
A	CC						
## 161	20	161	SNOW	B	18-20	13.5	
A	CV						
## 162	20	162	SNOW	B	18-20	18.0	
A	S						
## 163	20	163	SNOW	B	18-20	31.5	
A	CV						
## 164	20	164	SNOW	B	20-22	19.5	

M	S						
## 165	20	165	SNOW	B	20-22	22.0	
A	CV						
## 166	20	166	SNOW	B	20-22	18.5	
A	S						
## 167	20	167	SNOW	B	20-22	29.5	
A	CC						
## 168	20	168	SNOW	B	50-52	4.5	
A	CC						
## 169	21	169	LONG	A	24-26	23.5	
A	CC						
## 170	21	170	LONG	A	42-44	21.5	A/
L	F						
## 171	21	171	LONG	A	48-50	21.0	A/
B	CC						
## 172	21	172	LONG	A	48-50	5.0	A/
B	S						
## 173	21	173	LONG	A	48-50	10.0	
A	CC						
## 174	21	174	LONG	A	48-50	5.0	
B	CC						
## 175	21	175	LONG	A	48-50	14.5	A/
L	CC						
## 176	21	176	LONG	B	20-22	7.0	A/
L	CC						
## 177	22	177	MONTY	B	10-12	22.5	
A	S						
## 178	23	178	MONTY	A	32-34	9.5	
A	S						
## 179	23	179	MONTY	A	32-34	9.0	
A	CC						
## 180	23	180	MONTY	A	32-34	7.9	
A	CC						
## 181	23	181	MONTY	A	32-34	8.8	
A	CV						
## 182	23	182	MONTY	A	32-34	8.0	
A	CV						
## 183	23	183	MONTY	A	32-34	15.5	
A	CV						
## 184	23	184	MONTY	A	32-34	6.0	
A	CV						
## 185	23	185	MONTY	A	32-34	14.0	

A	CV							
## 186	23	186	MONTY	A	34-36	8.0	A/	
L	F							
## 187	23	187	MONTY	A	34-36	1.0		
A	S							
## 188	23	188	MONTY	A	34-36	5.5		
A	CC							
## 189	23	189	MONTY	A	34-36	6.9		
A	CC							
## 190	23	190	MONTY	A	34-36	1.1		
A	CC							
## 191	23	191	MONTY	A	34-36	1.2		
A	S							
## 192	23	192	MONTY	A	34-36	1.6		
A	S							
## 193	23	193	MONTY	A	34-36	4.3	A/	
L	CV							
## 194	23	194	MONTY	A	34-36	4.6	A/	
L	CV							
## 195	23	195	MONTY	A	34-36	5.0	A/	
L	CV							
## 196	23	196	MONTY	A	34-36	4.0		
A	CC							
## 197	23	197	MONTY	A	34-36	4.0		
A	CV							
## 198	23	198	MONTY	A	36-38	5.6		
A	CV							
## 199	23	199	MONTY	A	36-38	7.2		
A	CV							
## 200	23	200	MONTY	A	36-38	5.7		
A	S							
## 201	23	201	MONTY	A	36-38	7.4		
A	CV							
## 202	23	202	MONTY	A	36-38	2.1		
A	F							
## 203	23	203	MONTY	A	36-38	3.3		
A	S							
## 204	23	204	MONTY	A	36-38	4.8		
A	CC							
## 205	23	205	MONTY	A	36-38	5.0		
A	CC							
## 206	23	206	MONTY	A	38-40	7.4		

A	S						
## 207	24	207	MONTY	A	22-24	4.8	
A	F						
## 208	24	208	MONTY	B	16-18	6.1	A/
L	CC						
## 209	25	209	LONG	A	0-2	4.2	
A	F						
## 210	25	210	LONG	A	2-4	4.5	
L	F						
## 211	25	211	LONG	A	2-4	6.8	
L	CC						
## 212	25	212	LONG	A	4-6	8.1	A/
L	CC						
## 213	25	213	LONG	A	6-8	6.1	
B	CV						
## 214	25	214	LONG	A	6-8	6.0	
B	CC						
## 215	25	215	LONG	A	6-8	2.6	
B	CC						
## 216	25	216	LONG	A	6-8	3.0	
B	CC						
## 217	25	217	LONG	A	6-8	5.0	
B	CC						
## 218	25	218	LONG	A	6-8	1.5	
B	F						
## 219	25	219	LONG	A	6-8	3.9	
B	F						
## 220	25	220	LONG	A	6-8	5.5	
B	F						
## 221	25	221	LONG	A	6-8	2.6	
B	F						
## 222	25	222	LONG	A	6-8	9.6	
B	CC						
## 223	25	223	LONG	A	6-8	7.9	
B	CC						
## 224	25	224	LONG	A	6-8	3.0	
B	CV						
## 225	25	225	LONG	A	6-8	8.6	
B	CC						
## 226	25	226	LONG	A	6-8	5.3	
B	CV						
## 227	25	227	LONG	A	6-8	5.0	



B	CC						
## 228	25	228	LONG	A	6-8	10.2	
B	CV						
## 229	25	229	LONG	A	6-8	3.1	
B	CC						
## 230	25	230	LONG	A	6-8	5.1	
B	S						
## 231	25	231	LONG	A	6-8	4.1	
B	S						
## 232	25	232	LONG	A	8-10	7.1	
M	CC						
## 233	25	233	LONG	A	8-10	13.6	
M	S						
## 234	25	234	LONG	A	8-10	7.9	A/
B	CC						
## 235	25	235	LONG	A	8-10	4.6	
B	CV						
## 236	25	236	LONG	A	8-10	5.8	
B	CC						
## 237	25	237	LONG	A	8-10	7.1	
M	CV						
## 238	25	238	LONG	A	8-10	3.2	
M	CC						
## 239	25	239	LONG	A	10-12	7.0	B/
M	F						
## 240	25	240	LONG	A	12-14	11.0	B/
M	F						
## 241	25	241	LONG	A	12-14	11.9	A/
B	S						
## 242	25	242	LONG	A	12-14	6.8	A/
B	S						
## 243	25	243	LONG	A	12-14	2.0	
A	CC						
## 244	25	244	LONG	A	12-14	5.0	
B	S						
## 245	25	245	LONG	A	12-14	15.6	
B	F						
## 246	25	246	LONG	A	12-14	24.9	
B	S						
## 247	25	247	LONG	A	12-14	3.9	
B	S						
## 248	25	248	LONG	A	12-14	4.0	

B	CC							
## 249	25	249	LONG	A	12-14	8.4		
B	CC							
## 250	25	250	LONG	A	12-14	3.9		
B	CC							
## 251	25	251	LONG	A	12-14	3.5		
M	CC							
## 252	25	252	LONG	A	12-14	9.9		
M	S							
## 253	25	253	LONG	A	14-16	3.5		
A	F							
## 254	25	254	LONG	A	14-16	2.9		
A	F							
## 255	25	255	LONG	A	14-16	7.5		
B	S							
## 256	25	256	LONG	A	16-18	8.8		
M	F							
## 257	25	257	LONG	A	16-18	9.0		
B	S							
## 258	25	258	LONG	A	16-18	6.5		
B	F							
## 259	25	259	LONG	A	16-18	12.0		
B	S							
## 260	25	260	LONG	A	16-18	10.0	B/	
M	S							
## 261	25	261	LONG	A	16-18	4.0	A/	
B	CC							
## 262	25	262	LONG	A	16-18	4.0	A/	
B	CC							
## 263	25	263	LONG	A	16-18	3.0	A/	
B	S							
## 264	25	264	LONG	A	16-18	2.0	A/	
B	S							
## 265	25	265	LONG	A	20-22	6.5		
A	S							
## 266	25	266	LONG	A	24-26	4.0		
M	F							
## 267	25	267	LONG	B	36-38	7.0		
M	S							
## 268	25	268	LONG	B	36-38	4.0	A/	
L	F							
## 269	25	269	LONG	B	36-38	9.5		

M	S						
## 270	26	270	LONG	A	16-18	18.1	B/
M	S						
## 271	26	271	LONG	A	24-26	11.4	
A	CC						
## 272	26	272	LONG	A	24-26	13.2	
A	S						
## 273	26	273	LONG	A	26-28	4.7	
A	F						
## 274	26	274	LONG	A	26-28	5.7	
B	CV						
## 275	26	275	LONG	A	26-28	15.9	
A	F						
## 276	26	276	LONG	A	26-28	7.1	
A	F						
## 277	26	277	LONG	A	30-32	9.4	A/
L	F						
## 278	26	278	LONG	A	36-38	1.6	
A	F						
## 279	26	279	LONG	A	36-38	15.3	
A	F						
## 280	26	280	LONG	A	36-38	1.1	
A	S						
## 281	26	281	LONG	A	40-42	7.4	
A	F						
## 282	26	282	LONG	B	0-2	16.5	
A	S						
## 283	26	283	LONG	B	40-42	23.0	A/
B	CC						
## 284	26	284	LONG	B	40-42	12.5	
A	CC						
## 285	26	285	LONG	B	40-42	5.0	
A	CC						
## 286	27	286	LONG	A	0-2	5.5	A/
B	F						
## 287	27	287	LONG	A	0-2	20.1	
B	S						
## 288	27	288	LONG	A	0-2	5.6	
A	F						
## 289	27	289	LONG	A	0-2	6.5	
A	F						
## 290	27	290	LONG	B	0-2	19.8	

A	F						
## 291	27	291	LONG	B	0-2	9.0	A/
B	S						
## 292	27	292	LONG	B	0-2	10.2	A/
B	CC						
## 293	27	293	LONG	B	0-2	22.4	
A	S						
## 294	27	294	LONG	B	0-2	4.4	
B	S						
## 295	27	295	LONG	B	0-2	14.9	
B	CV						
## 296	27	296	LONG	B	0-2	5.1	
B	S						
## 297	27	297	LONG	B	32-34	4.6	
A	S						
## 298	27	298	LONG	B	34-36	15.5	
A	S						
## 299	27	299	LONG	B	34-36	2.0	
A	F						
## 300	27	300	LONG	B	34-36	1.0	
A	F						
## 301	27	301	LONG	B	34-36	0.5	
A	F						
## 302	28	302	FISH	A	24-26	15.0	
M	F						
## 303	28	303	FISH	B	16-18	20.0	
A	F						
## 304	28	304	FISH	B	44-46	17.0	
A	CC						
## 305	29	305	FISH	N/A		NA	
## 306	30	306	FISH	A	34-36	16.0	
L	F						
## 307	30	307	FISH	B	44-46	35.1	
L	S						
## 308	31	308	CR69	N/A		NA	
## 309	32	309	CR69	N/A		NA	
## 310	33	310	CR69	A	42-44	9.5	
M	S						
## 311	33	311	CR69	B	38-40	25.9	
M	F						
## 312	34	312	CAM	A	14-16	15.0	

A	S						
## 313	34	313	CAM	A	18-20	1.1	
M	CC						
## 314	34	314	CAM	A	20-22	0.9	
A	CC						
## 315	34	315	CAM	A	30-32	0.5	
A	CC						
## 316	34	316	CAM	A	30-32	13.1	
A	CC						
## 317	34	317	CAM	A	30-32	16.3	
A	CC						
## 318	34	318	CAM	A	30-32	34.9	
A	CC						
## 319	34	319	CAM	A	32-34	1.2	
A	CV						
## 320	34	320	CAM	A	34-36	4.0	
A	S						
## 321	34	321	CAM	A	34-36	26.7	
A	CC						
## 322	34	322	CAM	A	36-38	2.2	
A	CC						
## 323	34	323	CAM	A	40-42	2.1	
A	CC						
## 324	34	324	CAM	A	40-42	3.3	
A	CC						
## 325	34	325	CAM	A	40-42	4.8	
A	CC						
## 326	34	326	CAM	A	40-42	4.7	A/
L	CC						
## 327	34	327	CAM	A	42-44	4.3	A/
L	CC						
## 328	34	328	CAM	A	42-44	1.3	A/
L	CC						
## 329	34	329	CAM	A	42-44	1.5	
A	F						
## 330	34	330	CAM	A	42-44	4.4	
A	CC						
## 331	34	331	CAM	A	44-46	6.1	
A	S						
## 332	34	332	CAM	A	46-48	2.4	A/
L	CC						
## 333	34	333	CAM	A	48-50	58.4	

A	F							
## 334	34	334	CAM	A	48-50	0.8	A/	
L	CC							
## 335	34	335	CAM	B	2-4	11.1		
A	F							
## 336	34	336	CAM	B	10-12	2.8		
A	F							
## 337	34	337	CAM	B	12-14	30.5	A/	
L	CV							
## 338	34	338	CAM	B	14-16	1.6		
A	CC							
## 339	34	339	CAM	B	20-22	3.7		
A	CC							
## 340	34	340	CAM	B	38-40	1.5	A/	
L	CC							
## 341	34	341	CAM	B	40-42	3.4		
A	S							
## 342	35	342	CAM	A	14-16	31.2		
A	CC							
## 343	35	343	CAM	B	2-4	16.4		
A	CC							
## 344	35	344	CAM	B	4-6	4.6		
A	F							
## 345	35	345	CAM	B	4-6	24.8	A/	
B	CV							
## 346	35	346	CAM	B	14-16	4.4	B/	
M	CC							
## 347	35	347	CAM	B	14-16	10.4	A/	
B	CC							
## 348	35	348	CAM	B	20-22	9.7		
A	F							
## 349	35	349	CAM	B	48-50	3.5	B/	
M	F							
## 350	36	350	CAM	A	6-8	28.7		
A	S							
## 351	36	351	CAM	A	8-10	9.9		
A	F							
## 352	36	352	CAM	A	8-10	18.8		
A	CC							
## 353	36	353	CAM	A	24-26	18.0		
A	CC							
## 354	36	354	CAM	A	30-32	4.9		

A	F							
## 355	36	355	CAM	A	30-32	4.1	A/	
W	CV							
## 356	36	356	CAM	A	34-36	1.1		
A	F							
## 357	36	357	CAM	A	40-42	5.4		
M	CC							
## 358	36	358	CAM	A	42-44	5.1		
B	CC							
## 359	36	359	CAM	A	42-44	2.9		
B	CV							
## 360	36	360	CAM	A	42-44	9.9		
B	S							
## 361	36	361	CAM	A	42-44	13.2		
B	CC							
## 362	36	362	CAM	A	44-46	6.4	B/	
M	CC							
## 363	36	363	CAM	A	46-48	2.3		
M	CC							
## 364	36	364	CAM	A	48-50	18.1	B/	
M	CC							
## 365	36	365	CAM	A	48-50	13.1	B/	
M	CC							
## 366	36	366	CAM	A	48-50	1.4	B/	
M	CC							
## 367	36	367	CAM	A	48-50	8.7	B/	
M	CC							
## 368	36	368	CAM	A	48-50	8.5	B/	
M	CV							
## 369	36	369	CAM	B	34-36	6.0		
B	S							
## 370	36	370	CAM	B	34-36	6.6		
B	S							
## 371	36	371	CAM	B	34-36	4.8		
B	CC							
## 372	36	372	CAM	B	34-36	2.9		
B	CC							
## 373	36	373	CAM	B	34-36	13.8		
B	CV							
## 374	36	374	CAM	B	36-38	16.9		
B	CC							
## 375	36	375	CAM	B	36-38	13.0	B/	

L	CC							
## 376	36	376	CAM	B	36-38	10.5		
B	CC							
## 377	36	377	CAM	B	36-38	30.3	A/	
B	F							
## 378	36	378	CAM	B	36-38	29.6		
B	CV							
## 379	36	379	CAM	B	36-38	21.7		
B	F							
## 380	36	380	CAM	B	36-38	20.4		
A	CC							
## 381	36	381	CAM	B	36-38	9.6		
A	F							
## 382	36	382	CAM	B	36-38	7.9		
B	F							
## 383	36	383	CAM	B	36-38	5.5		
B	F							
## 384	36	384	CAM	B	36-38	13.3		
A	S							
## 385	36	385	CAM	B	36-38	3.4		
B	S							
## 386	36	386	CAM	B	36-38	3.6		
B	S							
## 387	36	387	CAM	B	40-42	18.6		
B	CC							
## 388	36	388	CAM	B	40-42	15.9		
B	CC							
## 389	36	389	CAM	B	40-42	11.5		
A	S							
## 390	36	390	CAM	B	38-40	3.7		
B	CC							
## 391	36	391	CAM	B	42-44	6.1	A/	
B	CC							
## 392	36	392	CAM	B	42-44	12.4		
B	S							
## 393	36	393	CAM	B	42-44	11.0		
B	CC							
## 394	36	394	CAM	B	42-44	13.4		
B	CC							
## 395	36	395	CAM	B	42-44	10.8		
A	S							
## 396	36	396	CAM	B	42-44	18.2	A/	



B	S						
## 397	36	397	CAM	B	42-44	14.6	
B	S						
## 398	36	398	CAM	B	42-44	15.1	A/
B	S						
## 399	36	399	CAM	B	42-44	4.4	
A	S						
## 400	36	400	CAM	B	42-44	11.0	
A	CC						
## 401	36	401	CAM	B	42-44	3.1	
B	S						
## 402	36	402	CAM	B	48-50	19.8	
A	CC						
## 403	37	403	CAM	N/A		NA	
## 404	38	404	CAM	A	0-2	3.2	
B	F						
## 405	38	405	CAM	A	0-2	18.6	A/
B	CV						
## 406	38	406	CAM	A	4-6	4.1	
B	CC						
## 407	38	407	CAM	A	4-6	4.9	
B	CC						
## 408	38	408	CAM	A	4-6	7.9	
B	S						
## 409	38	409	CAM	A	4-6	4.5	
B	F						
## 410	38	410	CAM	A	4-6	4.7	
B	S						
## 411	38	411	CAM	A	4-6	17.1	
B	S						
## 412	38	412	CAM	A	4-6	9.1	
B	CC						
## 413	38	413	CAM	A	4-6	3.5	
B	CC						
## 414	38	414	CAM	A	10-12	10.4	
B	CC						
## 415	38	415	CAM	A	10-12	6.3	
B	S						
## 416	38	416	CAM	A	10-12	11.7	A/
B	F						
## 417	38	417	CAM	A	10-12	10.3	

B	S						
## 418	38	418	CAM	A	10-12	5.2	
B	S						
## 419	38	419	CAM	A	12-14	3.8	
B	CC						
## 420	38	420	CAM	A	12-14	4.6	
B	S						
## 421	38	421	CAM	A	12-14	5.5	
B	CV						
## 422	38	422	CAM	A	12-14	6.2	
B	S						
## 423	38	423	CAM	A	12-14	7.6	
B	CC						
## 424	38	424	CAM	A	12-14	5.2	
B	CC						
## 425	38	425	CAM	A	12-14	7.5	A/
B	F						
## 426	38	426	CAM	A	12-14	4.4	
B	F						
## 427	38	427	CAM	A	14-16	22.6	
B	C						
## 428	38	428	CAM	A	14-16	4.7	
B	CV						
## 429	38	429	CAM	A	16-18	8.4	
B	CC						
## 430	38	430	CAM	A	16-18	18.3	
B	CC						
## 431	38	431	CAM	A	16-18	6.1	
B	CC						
## 432	38	432	CAM	A	16-18	4.2	
B	CC						
## 433	38	433	CAM	A	16-18	10.5	
B	S						
## 434	38	434	CAM	A	16-18	8.2	
B	CC						
## 435	38	435	CAM	A	16-18	8.1	
B	F						
## 436	38	436	CAM	A	16-18	5.3	
B	S						
## 437	38	437	CAM	A	16-18	5.1	
B	F						
## 438	38	438	CAM	A	16-18	5.2	

B	S						
## 439	38	439	CAM	A	20-22	45.7	
B	S						
## 440	38	440	CAM	A	20-22	14.6	
B	F						
## 441	38	441	CAM	A	20-22	3.6	
B	CC						
## 442	38	442	CAM	A	20-22	7.2	
B	CC						
## 443	38	443	CAM	A	20-22	5.2	
B	S						
## 444	38	444	CAM	A	22-24	15.0	
B	CC						
## 445	38	445	CAM	A	22-24	12.0	
B	S						
## 446	38	446	CAM	A	22-24	9.6	
B	S						
## 447	38	447	CAM	A	22-24	9.4	A/
B	S						
## 448	38	448	CAM	A	22-24	8.3	
A	S						
## 449	38	449	CAM	A	22-24	4.2	
B	CC						
## 450	38	450	CAM	A	22-24	3.1	
A	CC						
## 451	38	451	CAM	A	22-24	8.1	A/
B	S						
## 452	38	452	CAM	A	22-24	7.5	
B	CC						
## 453	38	453	CAM	A	22-24	2.0	A/
B	S						
## 454	38	454	CAM	A	22-24	9.6	
A	CC						
## 455	38	455	CAM	A	26-28	1.9	
A	CV						
## 456	38	456	CAM	A	26-28	26.2	
A	S						
## 457	38	457	CAM	A	32-34	9.6	
B	CV						
## 458	38	458	CAM	A	32-34	10.4	
B	F						
## 459	38	459	CAM	A	32-34	19.1	

B	CV					
## 460	38	460	CAM	A	32-34	8.2
B	S					
## 461	38	461	CAM	A	32-34	10.6
B	S					
## 462	38	462	CAM	A	32-34	9.9
B	S					
## 463	38	463	CAM	A	32-34	2.2
B	F					
## 464	38	464	CAM	A	32-34	3.0
B	S					
## 465	38	465	CAM	A	32-34	6.5
B	CC					
## 466	38	466	CAM	A	32-34	11.4
B	S					
## 467	38	467	CAM	A	32-34	6.3
B	CV					
## 468	38	468	CAM	A	34-36	9.8
B	CC					
## 469	38	469	CAM	A	34-36	15.0
B	F					
## 470	38	470	CAM	A	34-36	7.5
B	CC					
## 471	38	471	CAM	A	34-36	2.9
B	F					
## 472	38	472	CAM	A	34-36	16.9
B	CC					
## 473	38	473	CAM	A	34-36	13.0
B	S					
## 474	38	474	CAM	A	34-36	15.0
B	CC					
## 475	38	475	CAM	A	34-36	12.2
B	S					
## 476	38	476	CAM	A	34-36	11.5
B	F					
## 477	38	477	CAM	A	34-36	12.8
B	F					
## 478	38	478	CAM	A	34-36	17.6
B	F					
## 479	38	479	CAM	A	34-36	8.3
B	F					
## 480	38	480	CAM	A	34-36	3.8

B	F					
## 481	38	481	CAM	A	34-36	16.0
B	CC					
## 482	38	482	CAM	A	36-38	18.4
B	S					
## 483	38	483	CAM	A	42-44	4.6
B	CC					
## 484	38	484	CAM	A	48-50	6.2
B	F					
## 485	38	485	CAM	A	48-50	9.5
B	F					
## 486	38	486	CAM	A	48-50	3.2
B	F					
## 487	38	487	CAM	A	48-50	5.1
B	CC					
## 488	38	488	CAM	A	48-50	4.0
B	CC					
## 489	38	489	CAM	A	48-50	6.9
B	S					
## 490	38	490	CAM	B	4-6	10.4
A	F					
## 491	38	491	CAM	B	4-6	6.7
A	S					
## 492	38	492	CAM	B	4-6	14.7
B	S					
## 493	38	493	CAM	B	4-6	17.9
A	CC					
## 494	38	494	CAM	B	6-8	7.1
A	CC					
## 495	38	495	CAM	B	18-20	16.0
L	S					
## 496	38	496	CAM	B	20-22	8.5
B	S					
## 497	38	497	CAM	B	20-22	11.5
B	S					
## 498	38	498	CAM	B	20-22	7.9
B	F					
## 499	38	499	CAM	B	20-22	10.3
B	S					
## 500	38	500	CAM	B	20-22	10.5
B	F					
## 501	38	501	CAM	B	20-22	7.3

B	CC							
## 502	38	502	CAM	B	20-22	10.8		
B	S							
## 503	38	503	CAM	B	20-22	11.7		
B	S							
## 504	38	504	CAM	B	20-22	10.0		
B	S							
## 505	38	505	CAM	B	22-24	9.5		
A	F							
## 506	38	506	CAM	B	22-24	2.9		
B	F							
## 507	38	507	CAM	B	28-30	8.7		
B	S							
## 508	38	508	CAM	B	28-30	19.7		
B	F							
## 509	38	509	CAM	B	28-30	6.9		
B	S							
## 510	38	510	CAM	B	28-30	1.2		
B	F							
## 511	38	511	CAM	B	30-32	1.0		
B	F							
## 512	38	512	CAM	B	30-32	0.5		
B	F							
## 513	38	513	CAM	B	28-30	14.6	A/	
B	S							
## 514	38	514	CAM	B	30-32	4.4	A/	
B	F							
## 515	38	515	CAM	B	30-32	1.5		
B	F							
## 516	38	516	CAM	B	32-34	46.6		
B	CC							
## 517	38	517	CAM	B	34-36	14.3		
B	CC							
## 518	38	518	CAM	B	34-36	12.1		
B	S							
## 519	38	519	CAM	B	34-36	25.9		
B	CV							
## 520	38	520	CAM	B	34-36	6.8		
B	F							
## 521	38	521	CAM	B	34-36	23.3		
B	S							
## 522	38	522	CAM	B	34-36	22.8		

B	S					
## 523	38	523	CAM	B	34-36	15.0
B	S					
## 524	38	524	CAM	B	34-36	13.9
B	F					
## 525	38	525	CAM	B	36-38	7.1
B	F					
## 526	38	526	CAM	B	36-38	6.9
B	F					
## 527	38	527	CAM	B	36-38	6.5
B	S					
## 528	38	528	CAM	B	38-40	10.3
B	S					
## 529	38	529	CAM	B	38-40	11.8
B	S					
## 530	38	530	CAM	B	38-40	3.5
B	S					
## 531	38	531	CAM	B	38-40	5.4
B	S					
## 532	38	532	CAM	B	38-40	6.4
B	CC					
## 533	38	533	CAM	B	38-40	7.0
B	CC					
## 534	38	534	CAM	B	40-42	10.9
B	F					
## 535	38	535	CAM	B	40-42	8.8
B	F					
## 536	38	536	CAM	B	40-42	9.0
B	F					
## 537	38	537	CAM	B	40-42	13.6
B	S					
## 538	38	538	CAM	B	40-42	5.0
B	F					
## 539	38	539	CAM	B	40-42	8.2
B	F					
## 540	38	540	CAM	B	40-42	3.1
B	F					
## 541	38	541	CAM	B	42-44	8.1
B	CV					
## 542	38	542	CAM	B	42-44	2.5
B	F					
## 543	38	543	CAM	B	42-44	6.1

B	CC							
## 544	38	544	CAM	B	42-44	4.9		
B	F							
## 545	38	545	CAM	B	42-44	11.5		
B	CC							
## 546	38	546	CAM	B	42-44	2.5		
B	F							
## 547	38	547	CAM	B	42-44	9.4		
B	F							
## 548	38	548	CAM	B	42-44	3.7		
B	CC							
## 549	38	549	CAM	B	42-44	8.0		
B	S							
## 550	38	550	CAM	B	42-44	7.6		
B	S							
## 551	38	551	CAM	B	42-44	23.2		
B	S							
## 552	38	552	CAM	B	42-44	22.5		
B	S							
## 553	38	553	CAM	B	44-46	3.9		
B	CC							
## 554	38	554	CAM	B	44-46	7.0		
B	CC							
## 555	38	555	CAM	B	44-46	5.1		
B	CC							
## 556	38	556	CAM	B	46-48	3.1		
B	CC							
## 557	38	557	CAM	B	50-52	11.6		
B	S							
## 558	38	558	CAM	B	50-52	11.8	A/	
B	CC							
## 559	38	559	CAM	B	50-52	3.4		
A	CC							
## 560	38	560	CAM	B	50-52	19.0		
B	S							
## 561	38	561	CAM	B	50-52	6.5		
A	CC							
##	Large.Topo	Large.CWD	Small.CWD	Sucker.Dist.	Canopy.Cover	Browse		
site.name								
## 1	CC	0	0	1.25	0	0		
ELKHORN								
## 2	F	0	0	1.30	0	0		



ELKHORN						
## 3	F	0	0	0.90	0	0
ELKHORN						
## 4		NA	NA	NA	NA	NA
FISH						
## 5		NA	NA	NA	NA	NA
FISH						
## 6		NA	NA	NA	NA	NA
LAKE						
## 7	CC	0	0	51.00	0	0
LAKE						
## 8	F	0	0	51.00	0	0
LAKE						
## 9	F	1	0	51.00	0	1
LAKE						
## 10	F	1	0	51.00	0	0
LAKE						
## 11	F	1	0	51.00	0	0
LAKE						
## 12	S	1	0	51.00	0	1
LAKE						
## 13	F	0	0	51.00	0	0
LAKE						
## 14	S	0	0	51.00	0	1
RAWAH						
## 15	S	0	0	51.00	0	0
RAWAH						
## 16	S	0	0	51.00	0	0
RAWAH						
## 17	S	0	0	51.00	0	0
RAWAH						
## 18	S	0	0	51.00	0	0
RAWAH						
## 19	CC	0	0	51.00	0	0
RAWAH						
## 20	S	0	0	51.00	0	0
RAWAH						
## 21	S	0	0	51.00	0	0
RAWAH						
## 22	S	0	0	51.00	0	0
RAWAH						
## 23	CC	0	0	51.00	0	0

RAWAH						
## 24	CC	0	0	51.00	0	0
RAWAH						
## 25	CC	0	0	51.00	0	0
RAWAH						
## 26	CC	0	0	51.00	0	0
RAWAH						
## 27	CC	0	0	51.00	0	1
RAWAH						
## 28	F	1	0	51.00	0	0
RAWAH						
## 29	F	0	0	51.00	0	1
RAWAH						
## 30	F	0	0	51.00	0	1
RAWAH						
## 31	F	0	0	51.00	0	0
RAWAH						
## 32	F	0	1	51.00	0	0
RAWAH						
## 33	CC	0	0	51.00	0	0
RAWAH						
## 34	CC	0	0	51.00	0	0
RAWAH						
## 35	CC	0	0	51.00	0	0
RAWAH						
## 36	CC	0	0	51.00	0	0
RAWAH						
## 37	CC	0	0	51.00	0	0
RAWAH						
## 38	CC	0	0	51.00	0	0
RAWAH						
## 39	CC	0	0	51.00	0	0
RAWAH						
## 40	F	1	0	51.00	0	0
RAWAH						
## 41	S	1	0	51.00	0	0
RAWAH						
## 42	S	1	0	51.00	0	0
RAWAH						
## 43	F	0	0	51.00	0	0
RAWAH						
## 44	F	1	0	51.00	0	0

RAWAH						
## 45	F	1	0	51.00	0	1
RAWAH						
## 46	F	1	0	51.00	0	0
RAWAH						
## 47	F	0	0	51.00	0	0
RAWAH						
## 48	F	0	0	51.00	0	0
RAWAH						
## 49	F	1	0	51.00	0	0
RAWAH						
## 50	CC	0	1	51.00	0	0
RAWAH						
## 51	CC	0	1	51.00	0	0
RAWAH						
## 52	CC	1	0	51.00	0	0
RAWAH						
## 53	CC	1	0	51.00	0	0
RAWAH						
## 54	CC	1	0	51.00	0	0
RAWAH						
## 55	CC	1	0	51.00	0	0
RAWAH						
## 56	CC	1	0	51.00	0	0
RAWAH						
## 57	CC	1	0	51.00	0	0
RAWAH						
## 58	CC	1	0	51.00	0	0
RAWAH						
## 59	CC	1	0	51.00	0	0
RAWAH						
## 60	CV	0	0	51.00	0	0
RAWAH						
## 61	CV	0	0	51.00	0	0
RAWAH						
## 62	CV	0	0	51.00	0	0
RAWAH						
## 63	F	1	0	51.00	0	0
RAWAH						
## 64	S	1	0	51.00	0	1
RAWAH						
## 65	S	1	0	51.00	0	1

RAWAH						
## 66	CC	1	0	51.00	0	1
RAWAH						
## 67	CC	0	0	51.00	0	0
RAWAH						
## 68	F	1	0	51.00	0	0
RAWAH						
## 69	F	0	0	51.00	0	0
RAWAH						
## 70	F	0	0	51.00	0	0
RAWAH						
## 71	CC	0	0	51.00	0	1
RAWAH						
## 72	S	0	1	51.00	0	0
RAWAH						
## 73	S	0	0	51.00	0	0
RAWAH						
## 74	CC	0	0	51.00	0	0
RAWAH						
## 75	F	0	0	51.00	0	0
RAWAH						
## 76	S	1	0	51.00	0	1
RAWAH						
## 77	CC	1	0	51.00	0	0
RAWAH						
## 78	S	1	0	51.00	0	0
RAWAH						
## 79	F	0	0	51.00	0	0
RAWAH						
## 80	CC	1	0	51.00	0	0
RAWAH						
## 81	F	0	0	51.00	0	1
RAWAH						
## 82	F	1	0	51.00	0	1
RAWAH						
## 83	F	1	0	51.00	0	0
RAWAH						
## 84	F	1	0	51.00	0	0
RAWAH						
## 85	F	0	0	51.00	0	0
RAWAH						
## 86	F	0	0	51.00	0	0

RAWAH						
## 87	F	0	0	51.00	0	0
RAWAH						
## 88	F	0	1	51.00	0	1
RAWAH						
## 89	F	0	1	51.00	0	0
RAWAH						
## 90	CV	0	0	51.00	0	0
RAWAH						
## 91	S	1	1	51.00	0	0
RAWAH						
## 92	S	1	1	51.00	0	0
RAWAH						
## 93	S	1	0	51.00	0	0
RAWAH						
## 94		NA	NA	NA	NA	NA
BLUE						
## 95		NA	NA	NA	NA	NA
BLUE						
## 96	S	1	1	51.00	0	0
BLUE						
## 97	CV	1	1	51.00	0	0
BLUE						
## 98	S	1	0	51.00	0	0
BLUE						
## 99	S	1	0	51.00	0	0
BLUE						
## 100	S	1	0	51.00	0	0
BLUE						
## 101		NA	NA	NA	NA	NA
RES						
## 102	S	1	1	51.00	0	0
RES						
## 103		NA	NA	NA	NA	NA
RES						
## 104		NA	NA	NA	NA	NA
RES						
## 105	S	0	0	30.00	0	0
RAWAH						
## 106		NA	NA	NA	NA	NA
RAWAH						
## 107	F	1	0	51.00	0	0

RAWAH						
## 108	CC	1	0	51.00	0	0
RAWAH						
## 109	CC	1	1	51.00	0	0
SNOW						
## 110	CC	1	1	51.00	0	0
SNOW						
## 111	CC	1	1	51.00	0	0
SNOW						
## 112	CC	1	1	51.00	0	1
SNOW						
## 113	CC	1	1	51.00	0	1
SNOW						
## 114	CC	1	1	51.00	0	1
SNOW						
## 115	CC	1	1	51.00	0	1
SNOW						
## 116	CC	1	0	51.00	0	1
SNOW						
## 117	CC	1	0	51.00	0	0
SNOW						
## 118	CC	1	0	51.00	0	1
SNOW						
## 119	S	0	1	51.00	0	0
SNOW						
## 120	CC	0	0	51.00	0	1
SNOW						
## 121	CC	0	0	51.00	0	1
SNOW						
## 122	CC	0	0	51.00	0	1
SNOW						
## 123	CC	0	0	51.00	0	0
SNOW						
## 124	CC	0	0	51.00	0	1
SNOW						
## 125	CC	0	0	51.00	0	0
SNOW						
## 126	CC	0	0	51.00	0	1
SNOW						
## 127	CC	0	0	51.00	0	0
SNOW						
## 128	CC	0	0	51.00	0	1

SNOW						
## 129	CC	0	0	51.00	0	1
SNOW						
## 130	CC	0	0	51.00	0	1
SNOW						
## 131	CC	0	0	51.00	0	0
SNOW						
## 132	S	0	1	51.00	0	0
SNOW						
## 133	CC	1	1	51.00	0	0
SNOW						
## 134	CC	1	1	51.00	0	0
SNOW						
## 135	CC	1	0	51.00	0	0
SNOW						
## 136	CC	1	1	51.00	0	1
SNOW						
## 137	F	0	0	51.00	0	0
SNOW						
## 138	CC	1	1	51.00	0	0
SNOW						
## 139	S	1	1	51.00	0	0
SNOW						
## 140	CC	1	0	51.00	0	0
SNOW						
## 141	CC	1	0	51.00	0	0
SNOW						
## 142	S	1	0	51.00	0	0
SNOW						
## 143	S	1	0	51.00	0	0
SNOW						
## 144	S	1	0	51.00	0	0
SNOW						
## 145	S	0	0	51.00	0	1
SNOW						
## 146	S	0	0	51.00	0	1
SNOW						
## 147	S	0	0	51.00	0	1
SNOW						
## 148	S	0	0	51.00	0	0
SNOW						
## 149	S	0	0	51.00	0	0

SNOW						
## 150	S	0	0	51.00	0	0
SNOW						
## 151	S	0	0	51.00	0	1
SNOW						
## 152	S	0	0	51.00	0	1
SNOW						
## 153	S	0	0	51.00	0	1
SNOW						
## 154	S	0	0	51.00	0	1
SNOW						
## 155	S	0	0	51.00	0	1
SNOW						
## 156	S	0	0	51.00	0	1
SNOW						
## 157	S	0	0	51.00	0	1
SNOW						
## 158	S	0	0	51.00	0	1
SNOW						
## 159	CC	0	0	51.00	0	1
SNOW						
## 160	F	1	1	51.00	0	1
SNOW						
## 161	S	1	0	51.00	0	1
SNOW						
## 162	S	0	0	51.00	0	1
SNOW						
## 163	S	1	0	51.00	0	1
SNOW						
## 164	S	0	0	51.00	0	1
SNOW						
## 165	S	0	0	51.00	0	1
SNOW						
## 166	S	1	0	51.00	0	1
SNOW						
## 167	S	1	0	51.00	0	1
SNOW						
## 168	CC	1	0	51.00	0	0
SNOW						
## 169	CC	1	1	51.00	0	0
LONG						
## 170	CC	0	1	51.00	0	1



LONG						
## 171	F	1	0	51.00	0	1
LONG						
## 172	CC	1	0	51.00	0	0
LONG						
## 173	CC	1	0	51.00	0	0
LONG						
## 174	CC	0	1	51.00	0	0
LONG						
## 175	F	1	0	51.00	0	0
LONG						
## 176	CC	1	1	40.00	0	0
LONG						
## 177	S	1	0	51.00	0	0
MONTY						
## 178	CV	0	0	51.00	0	0
MONTY						
## 179	CC	0	1	51.00	0	0
MONTY						
## 180	CC	0	0	51.00	0	1
MONTY						
## 181	CC	0	1	51.00	0	1
MONTY						
## 182	CC	0	0	51.00	0	1
MONTY						
## 183	F	1	1	51.00	0	0
MONTY						
## 184	CC	0	0	51.00	0	1
MONTY						
## 185	CC	0	0	51.00	0	1
MONTY						
## 186	CC	0	0	51.00	0	0
MONTY						
## 187	CC	0	0	51.00	0	0
MONTY						
## 188	CC	0	0	51.00	0	0
MONTY						
## 189	CC	0	0	51.00	0	0
MONTY						
## 190	CC	0	0	51.00	0	0
MONTY						
## 191	CC	0	0	51.00	0	0

MONTY						
## 192	CC	0	0	51.00	0	0
MONTY						
## 193	CC	0	0	51.00	0	1
MONTY						
## 194	S	0	0	51.00	0	0
MONTY						
## 195	S	0	0	51.00	0	0
MONTY						
## 196	S	1	0	51.00	0	0
MONTY						
## 197	S	1	0	51.00	0	0
MONTY						
## 198	CC	0	0	51.00	0	1
MONTY						
## 199	CC	0	0	51.00	0	1
MONTY						
## 200	CV	0	0	51.00	0	0
MONTY						
## 201	CC	1	0	51.00	0	0
MONTY						
## 202	CC	1	0	51.00	0	0
MONTY						
## 203	S	0	0	51.00	0	0
MONTY						
## 204	S	1	0	51.00	0	0
MONTY						
## 205	S	1	0	51.00	0	0
MONTY						
## 206	S	0	1	51.00	0	0
MONTY						
## 207	CC	1	1	51.00	0	1
MONTY						
## 208	S	0	1	51.00	0	0
MONTY						
## 209	F	1	0	51.00	0	1
LONG						
## 210	F	0	0	51.00	0	0
LONG						
## 211	F	0	1	51.00	0	0
LONG						
## 212	F	0	1	51.00	0	0

LONG						
## 213	F	0	1	51.00	0	0
LONG						
## 214	F	0	0	51.00	0	0
LONG						
## 215	F	0	0	51.00	0	0
LONG						
## 216	F	0	0	51.00	0	0
LONG						
## 217	F	0	0	51.00	0	0
LONG						
## 218	F	0	0	51.00	0	0
LONG						
## 219	CC	1	0	51.00	0	0
LONG						
## 220	CC	1	0	51.00	0	0
LONG						
## 221	CC	1	0	51.00	0	0
LONG						
## 222	CC	0	0	51.00	0	0
LONG						
## 223	CC	0	0	51.00	0	0
LONG						
## 224	CC	0	1	51.00	0	0
LONG						
## 225	CC	0	1	51.00	0	0
LONG						
## 226	F	0	0	51.00	0	0
LONG						
## 227	F	0	0	51.00	0	0
LONG						
## 228	CC	0	0	51.00	0	0
LONG						
## 229	F	0	0	51.00	0	0
LONG						
## 230	CC	0	0	51.00	0	0
LONG						
## 231	CC	0	0	51.00	0	0
LONG						
## 232	CC	1	0	51.00	0	0
LONG						
## 233	CC	1	0	51.00	0	0

LONG						
## 234	F	0	1	51.00	0	0
LONG						
## 235	F	0	0	51.00	0	0
LONG						
## 236	CC	1	0	51.00	0	0
LONG						
## 237	F	0	0	51.00	0	0
LONG						
## 238	F	1	0	51.00	0	0
LONG						
## 239	CC	0	0	51.00	0	0
LONG						
## 240	CC	1	0	51.00	0	0
LONG						
## 241	CC	1	0	51.00	0	0
LONG						
## 242	CC	1	0	51.00	0	0
LONG						
## 243	CC	0	1	51.00	0	0
LONG						
## 244	CC	0	1	51.00	0	0
LONG						
## 245	CC	0	0	51.00	0	0
LONG						
## 246	CC	0	0	51.00	0	0
LONG						
## 247	S	0	0	51.00	0	0
LONG						
## 248	F	0	0	51.00	0	0
LONG						
## 249	CV	0	0	51.00	0	0
LONG						
## 250	CC	1	0	51.00	0	0
LONG						
## 251	CC	0	0	51.00	0	0
LONG						
## 252	CC	0	0	51.00	0	0
LONG						
## 253	F	1	0	51.00	0	1
LONG						
## 254	S	0	0	51.00	0	1

LONG						
## 255	CV	0	0	51.00	0	0
LONG						
## 256	CC	1	0	51.00	0	1
LONG						
## 257	CC	1	0	51.00	0	0
LONG						
## 258	CC	1	0	51.00	0	0
LONG						
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LONG						
## 260	CC	1	0	51.00	0	1
LONG						
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LONG						
## 262	CC	1	0	51.00	0	0
LONG						
## 263	CC	1	0	51.00	0	0
LONG						
## 264	CC	1	0	51.00	0	0
LONG						
## 265	CC	1	0	51.00	0	0
LONG						
## 266	F	0	0	51.00	0	1
LONG						
## 267	F	0	0	51.00	0	0
LONG						
## 268	S	0	0	51.00	0	0
LONG						
## 269	S	0	0	51.00	0	0
LONG						
## 270	CC	1	1	51.00	0	0
LONG						
## 271	CC	1	0	51.00	0	1
LONG						
## 272	F	0	0	51.00	0	0
LONG						
## 273	F	0	0	51.00	0	1
LONG						
## 274	CC	0	0	51.00	0	0
LONG						
## 275	CV	0	0	51.00	0	0

LONG						
## 276	CC	0	0	51.00	0	0
LONG						
## 277	F	1	0	51.00	0	1
LONG						
## 278	CC	0	0	51.00	0	0
LONG						
## 279	CC	1	0	51.00	0	1
LONG						
## 280	CC	0	0	51.00	0	0
LONG						
## 281	CC	0	0	51.00	0	1
LONG						
## 282	S	0	0	51.00	0	0
LONG						
## 283	CC	1	1	51.00	0	0
LONG						
## 284	CC	1	1	51.00	0	0
LONG						
## 285	CC	1	1	51.00	0	0
LONG						
## 286	CC	0	0	51.00	0	0
LONG						
## 287	CC	1	0	51.00	0	0
LONG						
## 288	F	0	0	51.00	0	1
LONG						
## 289	F	0	0	51.00	0	0
LONG						
## 290	CC	1	1	51.00	0	0
LONG						
## 291	S	0	0	51.00	0	0
LONG						
## 292	S	0	0	51.00	0	0
LONG						
## 293	S	0	0	51.00	0	1
LONG						
## 294	S	0	0	51.00	0	0
LONG						
## 295	S	0	0	51.00	0	1
LONG						
## 296	S	1	0	51.00	0	0

LONG						
## 297	S	0	0	51.00	0	0
LONG						
## 298	CC	1	0	51.00	0	1
LONG						
## 299	F	1	0	51.00	0	0
LONG						
## 300	F	1	0	51.00	0	0
LONG						
## 301	S	1	0	51.00	0	0
LONG						
## 302	F	0	0	7.00	0	0
FISH						
## 303	CC	0	0	12.00	0	0
FISH						
## 304	CC	0	0	19.00	0	0
FISH						
## 305		NA	NA	NA	NA	NA
FISH						
## 306	F	1	0	51.00	0	1
FISH						
## 307	S	0	0	51.00	1	0
FISH						
## 308		NA	NA	NA	NA	NA
CR69						
## 309		NA	NA	NA	NA	NA
CR69						
## 310	S	0	0	0.10	0	0
CR69						
## 311	S	0	0	0.60	0	0
CR69						
## 312	S	1	0	51.00	0	0
CAM						
## 313	F	0	0	51.00	0	0
CAM						
## 314	S	0	1	51.00	0	0
CAM						
## 315	S	0	0	51.00	0	0
CAM						
## 316	S	0	0	51.00	0	0
CAM						
## 317	S	0	0	51.00	0	0

CAM						
## 318	S	0	0	51.00	0	0
CAM						
## 319	S	1	1	51.00	0	0
CAM						
## 320	S	0	0	51.00	0	0
CAM						
## 321	CC	0	0	51.00	0	0
CAM						
## 322	CC	1	0	51.00	0	0
CAM						
## 323	S	0	0	51.00	0	0
CAM						
## 324	S	0	0	51.00	0	0
CAM						
## 325	S	0	0	51.00	0	0
CAM						
## 326	S	0	1	51.00	0	0
CAM						
## 327	CC	1	0	51.00	0	0
CAM						
## 328	CC	1	0	51.00	0	0
CAM						
## 329	CC	1	0	51.00	0	0
CAM						
## 330	CC	1	0	51.00	0	0
CAM						
## 331	S	0	1	51.00	0	0
CAM						
## 332	S	0	1	51.00	0	0
CAM						
## 333	CC	0	1	51.00	0	0
CAM						
## 334	CC	0	1	51.00	0	0
CAM						
## 335	S	1	0	51.00	0	0
CAM						
## 336	S	0	0	51.00	0	0
CAM						
## 337	S	0	0	51.00	0	0
CAM						
## 338	CC	1	0	51.00	0	0



CAM						
## 339	S	1	0	51.00	0	0
CAM						
## 340	S	0	0	51.00	0	0
CAM						
## 341	S	0	0	51.00	0	0
CAM						
## 342	CC	0	0	51.00	0	0
CAM						
## 343	S	1	1	51.00	0	0
CAM						
## 344	CC	0	1	51.00	0	0
CAM						
## 345	CC	0	1	51.00	0	1
CAM						
## 346	CV	1	0	51.00	0	0
CAM						
## 347	CV	1	0	51.00	0	0
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## 348	CC	1	0	51.00	0	0
CAM						
## 349	CC	1	1	51.00	0	0
CAM						
## 350	S	1	0	51.00	0	0
CAM						
## 351	S	1	0	51.00	0	0
CAM						
## 352	S	1	0	51.00	0	0
CAM						
## 353	CV	1	0	51.00	0	0
CAM						
## 354	CV	1	1	51.00	0	0
CAM						
## 355	CV	0	0	51.00	0	0
CAM						
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CAM						
## 357	S	0	1	51.00	0	0
CAM						
## 358	F	0	1	51.00	0	0
CAM						
## 359	F	0	1	51.00	0	0

CAM						
## 360	S	0	0	51.00	0	0
CAM						
## 361	S	0	0	51.00	0	0
CAM						
## 362	CC	1	1	51.00	0	0
CAM						
## 363	CC	0	0	51.00	0	0
CAM						
## 364	CC	0	0	51.00	0	1
CAM						
## 365	CC	1	0	51.00	0	0
CAM						
## 366	CC	1	0	51.00	0	0
CAM						
## 367	S	0	0	51.00	0	0
CAM						
## 368	S	1	0	51.00	0	0
CAM						
## 369	CC	1	0	51.00	0	0
CAM						
## 370	CC	1	0	51.00	0	0
CAM						
## 371	CC	1	0	51.00	0	0
CAM						
## 372	CC	1	0	51.00	0	0
CAM						
## 373	CV	1	0	51.00	0	0
CAM						
## 374	CC	1	0	51.00	0	0
CAM						
## 375	F	1	0	51.00	0	0
CAM						
## 376	F	1	0	51.00	0	1
CAM						
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CAM						
## 378	F	1	0	51.00	0	0
CAM						
## 379	F	0	0	51.00	0	0
CAM						
## 380	CC	0	0	51.00	0	1

CAM						
## 381	F	0	0	51.00	0	0
CAM						
## 382	CC	1	0	51.00	0	0
CAM						
## 383	CC	1	0	51.00	0	0
CAM						
## 384	CC	1	0	51.00	0	0
CAM						
## 385	CC	1	0	51.00	0	0
CAM						
## 386	CC	1	0	51.00	0	0
CAM						
## 387	S	1	0	51.00	0	1
CAM						
## 388	S	1	0	51.00	0	1
CAM						
## 389	S	1	0	51.00	0	0
CAM						
## 390	CC	0	0	51.00	0	0
CAM						
## 391	S	0	1	51.00	0	0
CAM						
## 392	S	1	0	51.00	0	0
CAM						
## 393	CC	1	0	51.00	0	0
CAM						
## 394	CC	1	0	51.00	0	0
CAM						
## 395	CV	1	0	51.00	0	0
CAM						
## 396	CC	1	0	51.00	0	0
CAM						
## 397	CC	1	0	51.00	0	0
CAM						
## 398	S	1	0	51.00	0	1
CAM						
## 399	S	1	0	51.00	0	1
CAM						
## 400	CC	1	0	51.00	0	0
CAM						
## 401	S	1	0	51.00	0	0

CAM						
## 402	CC	1	0	51.00	0	0
CAM						
## 403		NA	NA	NA	NA	NA
CAM						
## 404	CC	0	0	51.00	0	0
CAM						
## 405	F	1	0	51.00	0	0
CAM						
## 406	S	0	0	51.00	0	0
CAM						
## 407	CC	0	0	51.00	0	0
CAM						
## 408	CC	0	0	51.00	0	0
CAM						
## 409	CC	0	0	51.00	0	0
CAM						
## 410	CC	0	0	51.00	0	0
CAM						
## 411	CC	0	0	51.00	0	1
CAM						
## 412	CC	0	0	51.00	0	0
CAM						
## 413	F	1	0	51.00	0	0
CAM						
## 414	CC	0	0	51.00	0	0
CAM						
## 415	CC	0	0	51.00	0	0
CAM						
## 416	CV	0	0	51.00	0	0
CAM						
## 417	CC	0	0	51.00	0	0
CAM						
## 418	CC	0	0	51.00	0	0
CAM						
## 419	S	0	0	51.00	0	0
CAM						
## 420	CC	0	0	51.00	0	0
CAM						
## 421	S	0	0	51.00	0	0
CAM						
## 422	CC	0	0	51.00	0	0

CAM						
## 423	CC	1	0	51.00	0	0
CAM						
## 424	CC	1	0	51.00	0	0
CAM						
## 425	CC	0	0	51.00	0	0
CAM						
## 426	S	0	0	51.00	0	0
CAM						
## 427	CC	0	0	51.00	0	0
CAM						
## 428	CC	1	0	51.00	0	0
CAM						
## 429	F	0	0	51.00	0	1
CAM						
## 430	F	0	0	51.00	0	0
CAM						
## 431	F	0	0	51.00	0	1
CAM						
## 432	CC	0	0	51.00	0	0
CAM						
## 433	CV	0	0	51.00	0	0
CAM						
## 434	CC	1	0	51.00	0	0
CAM						
## 435	CC	0	0	51.00	0	0
CAM						
## 436	CC	0	0	51.00	0	0
CAM						
## 437	F	1	0	51.00	0	1
CAM						
## 438	CC	1	0	51.00	0	0
CAM						
## 439	CC	1	0	51.00	0	0
CAM						
## 440	CC	0	0	51.00	0	0
CAM						
## 441	CC	1	0	51.00	0	0
CAM						
## 442	S	1	0	51.00	0	0
CAM						
## 443	CC	0	0	51.00	0	0

CAM						
## 444	CC	1	0	51.00	0	0
CAM						
## 445	CC	1	0	51.00	0	0
CAM						
## 446	CC	1	0	51.00	0	0
CAM						
## 447	S	1	0	51.00	0	0
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## 448	S	10	0	51.00	0	0
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CAM						
## 451	S	1	0	51.00	0	0
CAM						
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CAM						
## 453	S	0	0	51.00	0	0
CAM						
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CAM						
## 455	S	0	0	51.00	0	0
CAM						
## 456	S	1	0	51.00	0	0
CAM						
## 457	S	1	0	51.00	0	0
CAM						
## 458	CC	1	0	51.00	0	0
CAM						
## 459	CV	0	0	51.00	0	0
CAM						
## 460	CC	1	1	51.00	0	0
CAM						
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CAM						
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CAM						
## 463	CC	1	1	51.00	0	0
CAM						
## 464	S	1	0	51.00	0	0

CAM						
## 465	S	1	0	51.00	0	0
CAM						
## 466	S	1	0	51.00	0	0
CAM						
## 467	S	1	0	51.00	0	0
CAM						
## 468	F	1	0	51.00	0	0
CAM						
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CAM						
## 470	F	1	0	51.00	0	0
CAM						
## 471	F	1	0	51.00	0	0
CAM						
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CAM						
## 473	S	0	0	51.00	0	0
CAM						
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CAM						
## 475	CC	0	0	51.00	0	0
CAM						
## 476	F	0	0	51.00	0	0
CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
## 487	F	0	0	51.00	0	0
CAM						
## 488	CC	0	0	51.00	0	0
CAM						
## 489	CC	0	0	51.00	0	0
CAM						
## 490	S	1	0	51.00	0	0
CAM						
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CAM						
## 492	S	0	0	51.00	0	0
CAM						
## 493	CC	0	0	51.00	0	0
CAM						
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CAM						
## 495	S	1	0	51.00	0	0
CAM						
## 496	S	0	0	51.00	0	0
CAM						
## 497	S	1	0	51.00	0	0
CAM						
## 498	F	1	0	51.00	0	0
CAM						
## 499	CC	0	0	51.00	0	0
CAM						
## 500	CC	1	0	51.00	0	0
CAM						
## 501	CC	1	0	51.00	0	0
CAM						
## 502	S	1	0	51.00	0	0
CAM						
## 503	S	1	0	51.00	0	0
CAM						
## 504	S	1	0	51.00	0	0
CAM						
## 505	CC	1	0	51.00	0	0
CAM						
## 506	F	1	0	51.00	0	0



CAM						
## 507	S	1	0	51.00	0	0
CAM						
## 508	S	0	0	51.00	0	0
CAM						
## 509	CC	0	0	51.00	0	0
CAM						
## 510	F	1	0	51.00	0	0
CAM						
## 511	F	1	0	51.00	0	0
CAM						
## 512	F	1	0	51.00	0	0
CAM						
## 513	F	1	0	51.00	0	0
CAM						
## 514	F	1	1	51.00	0	0
CAM						
## 515	F	1	1	51.00	0	0
CAM						
## 516	CC	1	0	51.00	0	0
CAM						
## 517	CV	0	0	51.00	0	0
CAM						
## 518	S	1	0	51.00	0	0
CAM						
## 519	S	0	1	51.00	0	0
CAM						
## 520	CC	0	0	51.00	0	0
CAM						
## 521	S	1	0	51.00	0	0
CAM						
## 522	S	1	0	51.00	0	0
CAM						
## 523	S	1	0	51.00	0	0
CAM						
## 524	S	1	0	51.00	0	0
CAM						
## 525	CC	0	0	51.00	0	0
CAM						
## 526	CC	0	0	51.00	0	0
CAM						
## 527	CC	0	0	51.00	0	0

CAM						
## 528	CC	0	0	51.00	0	0
CAM						
## 529	CV	0	0	51.00	0	0
CAM						
## 530	CV	0	0	51.00	0	0
CAM						
## 531	CC	0	0	51.00	0	0
CAM						
## 532	CV	0	0	51.00	0	0
CAM						
## 533	CV	0	0	51.00	0	0
CAM						
## 534	CC	0	0	51.00	0	0
CAM						
## 535	CV	0	0	51.00	0	1
CAM						
## 536	CV	0	0	51.00	0	0
CAM						
## 537	S	0	0	51.00	0	0
CAM						
## 538	S	1	0	51.00	0	0
CAM						
## 539	S	1	0	51.00	0	0
CAM						
## 540	S	1	0	51.00	0	0
CAM						
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CAM						
## 542	S	0	0	51.00	0	0
CAM						
## 543	S	0	0	51.00	0	0
CAM						
## 544	F	0	0	51.00	0	0
CAM						
## 545	S	0	0	51.00	0	0
CAM						
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CAM						
## 547	S	0	0	51.00	0	0
CAM						
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CAM						
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CAM						
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CAM						
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CAM						
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CAM						
## 556	S	0	0	51.00	0	0
CAM						
## 557	CC	0	0	51.00	0	1
CAM						
## 558	CC	0	0	51.00	0	0
CAM						
## 559	S	0	0	51.00	0	0
CAM						
## 560	CC	0	0	51.00	0	1
CAM						
## 561	CC	0	0	51.00	0	0
CAM						
##	site.Number	height	Cluster	UTM.Easting..13T.	UTM.Northing	
Elevation	Slope					
## 1		1	25.0 ELKHORN	447029.0	4510687	
2712	4					
## 2		1	30.0 ELKHORN	447029.0	4510687	
2712	4					
## 3		1	25.0 ELKHORN	447029.0	4510687	
2712	4					
## 4		2	NA FISH	455188.0	4496280	
2519	8					
## 5		3	NA FISH	454831.0	4496229	
2546	10					
## 6		4	NA LAKE	427569.0	4494233	
2850	-7					
## 7		5	20.5 LAKE	427646.0	4494147	

2825	-5					
## 8		6	44.0	LAKE	427647.0	4493988
2835	-6					
## 9		6	15.0	LAKE	427647.0	4493988
2835	-6					
## 10		6	6.0	LAKE	427647.0	4493988
2835	-6					
## 11		6	3.5	LAKE	427647.0	4493988
2835	-6					
## 12		6	39.0	LAKE	427647.0	4493988
2835	-6					
## 13		6	18.0	LAKE	427647.0	4493988
2835	-6					
## 14		7	27.0	RAWAH	427082.0	4499706
2710	-7					
## 15		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 16		7	30.0	RAWAH	427082.0	4499706
2710	-7					
## 17		7	21.0	RAWAH	427082.0	4499706
2710	-7					
## 18		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 19		7	31.0	RAWAH	427082.0	4499706
2710	-7					
## 20		7	26.0	RAWAH	427082.0	4499706
2710	-7					
## 21		7	16.0	RAWAH	427082.0	4499706
2710	-7					
## 22		7	17.0	RAWAH	427082.0	4499706
2710	-7					
## 23		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 24		7	28.0	RAWAH	427082.0	4499706
2710	-7					
## 25		7	44.0	RAWAH	427082.0	4499706
2710	-7					
## 26		7	15.0	RAWAH	427082.0	4499706
2710	-7					
## 27		7	42.0	RAWAH	427082.0	4499706
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Transect.B						
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```

```
seedling_count_cluster
```

```
##      compiled$SITE.NAME    n
## 1          BLUE      7
## 2          CAM 250
## 3          CR69      4
## 4        ELKHORN      3
## 5          FISH      8
## 6          LAKE      8
## 7          LONG 101
## 8          MONTY      32
## 9          RAWAH      84
## 10         RES      4
## 11         SNOW      60
```

```
TransectCount <- count(compiled, compiled$Transect)
```

```
#how to set up binomial linear mixed model??
```

```
n <- 38
id <- seq(n)
transect <- 1:2
d <- expand.grid(id = id, transect=transect)
set.seed(1)
#sect <- sample(c("A", "B"), size = n, replace = TRUE)
cluster <- sample(c("Blue", "Cam", "CR69", "Elkhorn", "Fish", "Lake",
"Long", "Monty", "Rawah", "Res", "Snow"), size = n, replace = TRUE)
d$cluster <- cluster[d$id]
#d$sect <- sect[d$id]
d <- d[order(d$id, d$transect),]
rownames(d) <- NULL
head(d, n = 76)
```

##	id	transect	cluster
## 1	1	1	Rawah
## 2	1	2	Rawah
## 3	2	1	Elkhorn
## 4	2	2	Elkhorn
## 5	3	1	Long
## 6	3	2	Long
## 7	4	1	Blue
## 8	4	2	Blue
## 9	5	1	Cam
## 10	5	2	Cam
## 11	6	1	Long
## 12	6	2	Long
## 13	7	1	Snow
## 14	7	2	Snow
## 15	8	1	Cam
## 16	8	2	Cam
## 17	9	1	Snow
## 18	9	2	Snow
## 19	10	1	CR69
## 20	10	2	CR69
## 21	11	1	Blue
## 22	11	2	Blue
## 23	12	1	Fish
## 24	12	2	Fish
## 25	13	1	Fish
## 26	13	2	Fish
## 27	14	1	Res
## 28	14	2	Res
## 29	15	1	Lake
## 30	15	2	Lake
## 31	16	1	Res
## 32	16	2	Res
## 33	17	1	Long
## 34	17	2	Long
## 35	18	1	Rawah
## 36	18	2	Rawah
## 37	19	1	Fish
## 38	19	2	Fish
## 39	20	1	Fish



##	40	20	2	Fish
##	41	21	1	Rawah
##	42	21	2	Rawah
##	43	22	1	Rawah
##	44	22	2	Rawah
##	45	23	1	Fish
##	46	23	2	Fish
##	47	24	1	Fish
##	48	24	2	Fish
##	49	25	1	Cam
##	50	25	2	Cam
##	51	26	1	Res
##	52	26	2	Res
##	53	27	1	Rawah
##	54	27	2	Rawah
##	55	28	1	Blue
##	56	28	2	Blue
##	57	29	1	Elkhorn
##	58	29	2	Elkhorn
##	59	30	1	CR69
##	60	30	2	CR69
##	61	31	1	Lake
##	62	31	2	Lake
##	63	32	1	Res
##	64	32	2	Res
##	65	33	1	Res
##	66	33	2	Res
##	67	34	1	Lake
##	68	34	2	Lake
##	69	35	1	Elkhorn
##	70	35	2	Elkhorn
##	71	36	1	Elkhorn
##	72	36	2	Elkhorn
##	73	37	1	Res
##	74	37	2	Res
##	75	38	1	Rawah
##	76	38	2	Rawah

Probabilities of seedling presence:

```
#Blue p =  
#Cam  
#CR  
#Elk  
#Fish  
#Lake  
#Long  
#Monty  
#Rawah  
#Res  
#Snow
```

```
d$clusterint <- interaction(d$cluster)  
probs <- c()
```

#Visualizing abnormality

```
#hist(seedling_count_cluster$n)  
#hist(seedling_count$n)  
#hist(compiled$Height..cm.)
```