

## ***Appendix C - Statistical Summaries***

All statistical tests were computed with Systat 7.0 for Windows. Significance was arbitrarily set at 95% confidence intervals or  $P = 0.05$ .

### **Fishlake Plateau Subsection**

#### ***Briggs Hollow***

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
BH1win-F	20	37.5000	20.2991
BH1wout-G	20	31.0000	23.1699

Separate Variance t = 0.9437, df = 37.4, Prob = 0.3514  
Difference in Means = 6.5000, 95.00% CI = -7.4520 to 20.4520  
Pooled Variance t = 0.9437, df = 38, Prob = 0.3513  
Difference in Means = 6.5000, 95.00% CI = -7.4441 to 20.4441

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
BH2cin-O	20	33.9000	19.1995
BH2cout-AC	15	42.6000	24.0737

Separate Variance t = -1.1517, df = 26.2, Prob = 0.2599  
Difference in Means = -8.7000, 95.00% CI = -24.2235 to 6.8235  
Pooled Variance t = -1.1900, df = 33, Prob = 0.2425  
Difference in Means = -8.7000, 95.00% CI = -23.5736 to 6.1736

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
BH3win-L	20	21.3500	9.9381
BH3wout-H	15	26.3333	12.8044

Separate Variance t = -1.2510, df = 25.7, Prob = 0.2222  
Difference in Means = -4.9833, 95.00% CI = -13.1770 to 3.2104  
Pooled Variance t = -1.2976, df = 33, Prob = 0.2034  
Difference in Means = -4.9833, 95.00% CI = -12.7968 to 2.8301

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
BH5cin-N	20	26.5500	15.0245
BH5cout-M	20	36.8500	27.0424

Separate Variance t = -1.4890, df = 29.7, Prob = 0.1470  
Difference in Means = -10.3000, 95.00% CI = -24.4331 to 3.8331  
Pooled Variance t = -1.4890, df = 38, Prob = 0.1447  
Difference in Means = -10.3000, 95.00% CI = -24.3037 to 3.7037

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
outside excl	35	29.0000	19.3132
wildlf exclo	40	29.4250	17.7690

Separate Variance t = -0.0987 df = 69.7 Prob = 0.9217  
 Difference in Means = -0.4250 95.00% CI = -9.0158 to 8.1658  
 Pooled Variance t = -0.0992 df = 73 Prob = 0.9212  
 Difference in Means = -0.4250 95.00% CI = -8.9608 to 8.1108

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
cow exclusur	40	30.2250	17.4187
outside	35	39.3143	25.6053

Separate Variance t = -1.7718 df = 58.7 Prob = 0.0816  
 Difference in Means = -9.0893 95.00% CI = -19.3556 to 1.1770  
 Pooled Variance t = -1.8163 df = 73 Prob = 0.0734  
 Difference in Means = -9.0893 95.00% CI = -19.0627 to 0.8842

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
BH1win-F	20	90.5000	33.7288
BH1wout-G	20	60.1500	29.4963

Separate Variance t = 3.0292, df = 37.3, Prob = 0.0044  
 Difference in Means = 30.3500, 95.00% CI = 10.0555 to 50.6445  
 Pooled Variance t = 3.0292, df = 38, Prob = 0.0044  
 Difference in Means = 30.3500, 95.00% CI = 10.0673 to 50.6327

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
BH2cin-O	20	61.3500	16.3265
BH2cout-AC	15	77.3333	21.2558

Separate Variance t = -2.4248, df = 25.5, Prob = 0.0227  
 Difference in Means = -15.9833, 95.00% CI = -29.5465 to -2.4202  
 Pooled Variance t = -2.5188, df = 33, Prob = 0.0168  
 Difference in Means = -15.9833, 95.00% CI = -28.8937 to -3.0730

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
BH3win-L	20	61.3500	15.6853
BH3wout-H	15	46.4000	12.2870

Separate Variance t = 3.1611, df = 32.9, Prob = 0.0034  
 Difference in Means = 14.9500, 95.00% CI = 5.3272 to 24.5728  
 Pooled Variance t = 3.0518, df = 33, Prob = 0.0045  
 Difference in Means = 14.9500, 95.00% CI = 4.9833 to 24.9167

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
BH5cin-N	20	59.3500	21.5218
BH5cout-M	20	34.7500	9.9730

Separate Variance t = 4.6380, df = 26.8, Prob = 0.0001  
 Difference in Means = 24.6000, 95.00% CI = 13.7133 to 35.4867  
 Pooled Variance t = 4.6380, df = 38, Prob = 0.0000  
 Difference in Means = 24.6000, 95.00% CI = 13.8626 to 35.3374

Two-sample t test on HEIGHTCM grouped by TREATMENT\$

Group	N	Mean	SD
outside excl	35	54.2571	24.4135
wildlf exclo	40	75.9250	29.8658

Separate Variance t = -3.4551, df = 72.7, Prob = 0.0009  
 Difference in Means = -21.6679, 95.00% CI = -34.1673 to -9.1684  
 Pooled Variance t = -3.4090, df = 73, Prob = 0.0011  
 Difference in Means = -21.6679, 95.00% CI = -34.3355 to -9.0002

Two-sample t test on HEIGHTCM grouped by TREATMENT\$

Group	N	Mean	SD
cow exclusur	40	60.4500	18.8203
outside	35	53.0000	26.4342

Separate Variance t = 1.3877, df = 60.5, Prob = 0.1703  
 Difference in Means = 7.4500, 95.00% CI = -3.2867 to 18.1867  
 Pooled Variance t = 1.4188, df = 73, Prob = 0.1602  
 Difference in Means = 7.4500, 95.00% CI = -3.0151 to 17.9151

***Farnsworth***

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
F16ufd-E	21	13.4762	7.6917
F3cin-D	20	11.3500	7.9952

Separate Variance t = 0.8670, df = 38.7, Prob = 0.3913  
 Difference in Means = 2.1262, 95.00% CI = -2.8352 to 7.0875  
 Pooled Variance t = 0.8679, df = 39, Prob = 0.3908  
 Difference in Means = 2.1262, 95.00% CI = -2.8291 to 7.0815

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
F16ufd-E	20	147.2900	144.4306
F3cin-D	18	21.7111	51.9599

Separate Variance t = 3.6358, df = 24.3, Prob = 0.0013  
 Difference in Means = 125.5789, 95.00% CI = 54.3381 to 196.8197  
 Pooled Variance t = 3.4874, df = 36, Prob = 0.0013  
 Difference in Means = 125.5789, 95.00% CI = 52.5480 to 198.6098

## Monroe Mountain Subsection

### *Burnt Flat*

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
BF2win-Q	9	92.1111	32.7698
BF2wout-P	20	23.9500	22.8507

Separate Variance t = 5.6522, df = 11.6, Prob = 0.0001  
 Difference in Means = 68.1611, 95.00% CI = 41.7982 to 94.5240  
 Pooled Variance t = 6.4853, df = 27, Prob = 0.0000  
 Difference in Means = 68.1611, 95.00% CI = 46.5962 to 89.7260

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
BF2win-Q	9	92.1111	32.7698
BFS16ufd-C	20	40.2000	29.7226

Separate Variance t = 4.0599, df = 14.2, Prob = 0.0011  
 Difference in Means = 51.9111, 95.00% CI = 24.5234 to 79.2988  
 Pooled Variance t = 4.2186, df = 27, Prob = 0.0002  
 Difference in Means = 51.9111, 95.00% CI = 26.6627 to 77.1596

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
unfenced	40	32.0750	27.4314
wildlf exclo	9	92.1111	32.7698

Separate Variance t = -5.1082, df = 10.7, Prob = 0.0004  
 Difference in Means = -60.0361, 95.00% CI = -86.0028 to -34.0694  
 Pooled Variance t = -5.7277, df = 47, Prob = 0.0000  
 Difference in Means = -60.0361, 95.00% CI = -81.1226 to -38.9496

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
BF2win-Q	9	186.3333	23.5478
BF2wout-P	20	140.5000	40.9692

Separate Variance t = 3.7993, df = 25.1, Prob = 0.0008  
 Difference in Means = 45.8333, 95.00% CI = 20.9905 to 70.6761  
 Pooled Variance t = 3.1130, df = 27, Prob = 0.0043  
 Difference in Means = 45.8333, 95.00% CI = 15.6243 to 76.0424

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
BF2win-Q	9	186.3333	23.5478
BFS16ufd-C	18	142.1111	38.4477

Separate Variance t = 3.6886, df = 23.7, Prob = 0.0012  
 Difference in Means = 44.2222, 95.00% CI = 19.4625 to 68.9820  
 Pooled Variance t = 3.1499, df = 25, Prob = 0.0042  
 Difference in Means = 44.2222, 95.00% CI = 15.3075 to 73.1369

Two-sample t test on HEIGHTCM grouped by TREATMENT\$

Group	N	Mean	SD
unfenced	38	141.2632	39.2653
wildlf excl	9	186.3333	23.5478

Separate Variance t = -4.4586, df = 20.1, Prob = 0.0002  
 Difference in Means = -45.0702, 95.00% CI = -66.1483 to -23.9920  
 Pooled Variance t = -3.2892, df = 45, Prob = 0.0020  
 Difference in Means = -45.0702, 95.00% CI = -72.6685 to -17.4718

### **Dry Creek**

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
DC1ufd-X	20	7.7000	12.9538
DC2cin-Y	10	62.1000	26.9174

Separate Variance t = -6.0503, df = 11.1, Prob = 0.0001  
 Difference in Means = -54.4000, 95.00% CI = -74.1608 to -34.6392  
 Pooled Variance t = -7.5430, df = 28, Prob = 0.0000  
 Difference in Means = -54.4000, 95.00% CI = -69.1731 to -39.6269

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
DC1ufd-X	14	26.5000	11.9341
DC2cin-Y	10	74.2000	15.9011

Separate Variance t = -8.0106, df = 15.9, Prob = 0.0000  
 Difference in Means = -47.7000, 95.00% CI = -60.3287 to -35.0713  
 Pooled Variance t = -8.4113, df = 22, Prob = 0.0000  
 Difference in Means = -47.7000, 95.00% CI = -59.4607 to -35.9393

### **White Ledge**

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
WL16ufd-V	20	0.0	.
WL2cin-W	15	3.4667	8.7901

Insufficient data for test.

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
WL16ufd-V	20	0.0	.
WL2cin-W	4	35.0000	12.8323

Insufficient data for test.

**Oldroyd Private Property**

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
OPPah-AG	20	0.3500	0.9881
OPPufd-U	20	3.6000	6.1934

Separate Variance t = -2.3175, df = 20.0, Prob = 0.0312  
 Difference in Means = -3.2500, 95.00% CI = -6.1757 to -0.3243  
 Pooled Variance t = -2.3175, df = 38, Prob = 0.0260  
 Difference in Means = -3.2500, 95.00% CI = -6.0890 to -0.4110

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
OPPah-AG	3	12.6667	17.6163
OPPufd-U	10	27.6000	20.8870

Separate Variance t = -1.2314, df = 3.9, Prob = 0.2874  
 Difference in Means = -14.9333, 95.00% CI = -48.9866 to 19.1199  
 Pooled Variance t = -1.1158, df = 11, Prob = 0.2883  
 Difference in Means = -14.9333, 95.00% CI = -44.3909 to 14.5243

**Oldroyd Fire**

ANOVA comparing burn intensity (TREATMENT\$) and number of live stems per plot (LIVESTEMSPP)

Effects coding used for categorical variables in model.  
 Categorical values encountered during processing are:  
 TREATMENT\$ (4 levels) low, low-moderate, moderat-high, moderate  
 2 case(s) deleted due to missing data.

Dep Var: LIVESTEMSPP, N: 111, Multiple R: 0.2621, Squared multiple R: 0.0687

Analysis of Variance

Source	Sum-of-Squares	df	Mean-Square	F-ratio	P
TREATMENT\$	11313.6100	3	3771.2033	2.6305	0.0538
Error	153401.7594	107	1433.6613		

\*\*\* WARNING \*\*\*

Case 32 is an outlier (Studentized Residual = 6.5761)  
 Case 59 is an outlier (Studentized Residual = 7.3238)

Durbin-Watson D Statistic 1.896  
 First Order Autocorrelation 0.052

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 COL/  
 ROW TREATMENT\$  
 1 low  
 2 low-moderate  
 3 moderat-high  
 4 moderate

Using least squares means.  
 Post Hoc test of LIVESTEMSPP  
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Using model MSE of 1433.661 with 107 df.  
Matrix of pairwise mean differences:

	1	2	3	4
1	0.0			
2	1.6508	0.0		
3	17.1389	15.4881	0.0	
4	26.6450	24.9942	9.5061	0.0

Tukey HSD Multiple Comparisons.  
Matrix of pairwise comparison probabilities:

	1	2	3	4
1	1.0000			
2	0.9995	1.0000		
3	0.6112	0.4304	1.0000	
4	0.2293	0.0723	0.6721	1.0000

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**ANOVA comparing burn intensity (TREATMENT\$) and height of the dominant stem per plot (HEIGHTCM)**

Effects coding used for categorical variables in model.

Categorical values encountered during processing are:  
TREATMENT\$ (4 levels) low, low-moderate, moderat-high, moderate  
40 case(s) deleted due to missing data.

Dep Var: HEIGHTCM, N: 73, Multiple R: 0.6406, Squared multiple R: 0.4104

Analysis of Variance

Source	Sum-of-Squares	df	Mean-Square	F-ratio	P
TREATMENT\$	9078.1880	3	3026.0627	16.0107	0.0000
Error	13041.1818	69	189.0026		

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\*\*\* WARNING \*\*\*

Case 68 is an outlier (Studentized Residual = 3.4362)

Durbin-Watson D Statistic 1.487  
First Order Autocorrelation 0.257  
COL/

ROW TREATMENT\$

- 1 low
- 2 low-moderate
- 3 moderat-high
- 4 moderate

Using least squares means.

Post Hoc test of HEIGHTCM

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Using model MSE of 189.003 with 69 df.  
Matrix of pairwise mean differences:

	1	2	3	4
1	0.0			
2	-27.7273	0.0		
3	3.1667	30.8939	0.0	
4	4.0000	31.7273	0.8333	0.0

Tukey HSD Multiple Comparisons.  
Matrix of pairwise comparison probabilities:

	1	2	3	4
1	1.0000			
2	0.0511	1.0000		
3	0.9889	0.0000	1.0000	
4	0.9789	0.0000	0.9957	1.0000

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
low	9	1.1111	1.2693
low-moderate	21	2.7619	4.5487

Separate Variance t = -1.5299, df = 25.8, Prob = 0.1382  
Difference in Means = -1.6508, 95.00% CI = -3.8696 to 0.5680  
Pooled Variance t = -1.0614, df = 28, Prob = 0.2976  
Difference in Means = -1.6508, 95.00% CI = -4.8367 to 1.5351

Two-sample t test on HEIGHTCM grouped by TREATMENT\$

Group	N	Mean	SD
low	2	35.0000	1.4142
low-moderate	11	7.2727	4.1735

Separate Variance t = 17.2506, df = 5.3, Prob = 0.0000  
Difference in Means = 27.7273, 95.00% CI = 23.6726 to 31.7819  
Pooled Variance t = 9.0129, df = 11, Prob = 0.0000  
Difference in Means = 27.7273, 95.00% CI = 20.9561 to 34.4984

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
low-moderate	21	2.7619	4.5487
moderate	41	27.7561	56.3178

Separate Variance t = -2.8238, df = 41.0, Prob = 0.0073  
Difference in Means = -24.9942, 95.00% CI = -42.8694 to -7.1190  
Pooled Variance t = -2.0223, df = 60, Prob = 0.0476  
Difference in Means = -24.9942, 95.00% CI = -49.7169 to -0.2715



Two-sample t test on HEIGHTCM grouped by TREATMENT\$

Group	N	Mean	SD
low-moderate	11	7.2727	4.1735
moderate	24	39.0000	17.3180

Separate Variance t = -8.4554, df = 28.2, Prob = 0.0000  
 Difference in Means = -31.7273, 95.00% CI = -39.4116 to -24.0430  
 Pooled Variance t = -5.9522, df = 33, Prob = 0.0000  
 Difference in Means = -31.7273, 95.00% CI = -42.5719 to -20.8827

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
moderate	41	27.7561	56.3178
moderat-high	40	18.2500	25.8732

Separate Variance t = -0.9800, df = 56.5, Prob = 0.3313  
 Difference in Means = -9.5061, 95.00% CI = -28.9344 to 9.9222  
 Pooled Variance t = -0.9720, df = 79, Prob = 0.3340  
 Difference in Means = -9.5061, 95.00% CI = -28.9717 to 9.9595

Two-sample t test on HEIGHTCM grouped by TREATMENT\$

Group	N	Mean	SD
moderate	24	39.0000	17.3180
moderat-high	36	38.1667	13.0570

Separate Variance t = -0.2007, df = 40.0, Prob = 0.8419  
 Difference in Means = -0.8333, 95.00% CI = -9.2234 to 7.5567  
 Pooled Variance t = -0.2123, df = 58, Prob = 0.8326  
 Difference in Means = -0.8333, 95.00% CI = -8.6895 to 7.0229

Of the areas sampled for regeneration, only the Briggs Hollow, Dry Creek and the Oldroyd Private Property aspen harvest were treated in the same year as the Oldroyd Fire. Of the clearcut areas on Monroe Mountain, only the cattle exclosure of Dry Creek was not so heavily browsed as that the regeneration was almost gone, but only 10 sample plots were surveyed. Also, the only sites clearcut in 2000 that had been fenced were the Briggs Hollow units. Even though Briggs Hollow is on the Fishlake Plateau Subsection, I pooled the fenced Briggs Hollow and Dry Creek sites to make the clearcut treatment sample set.

To assess the differences between clearcutting and the moderate and moderate-high burn intensities on the number suckers produced, I ran two-sample t-tests comparing the fenced clearcut units to the Oldroyd Fire moderate and then moderate-high burn intensity sites. I hypothesized that there shouldn't be any significant difference ( $P > 0.05$ ) between clearcutting and moderate intensity burn sites, but that there should be ( $P < 0.05$ ) with the moderate-high intensity burn sites.

**Testing moderate-high intensity burn sites against all fenced sites (BH and DC).**

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
clearcut (all)	90	33.4111	21.1840
mod.-high burn	40	18.2500	25.8732

Separate Variance t = 3.2530, df = 63.2, Prob = 0.0018  
 Difference in Means = 15.1611, 95.00% CI = 5.8482 to 24.4740  
 Pooled Variance t = 3.5123, df = 128, Prob = 0.0006  
 Difference in Means = 15.1611, 95.00% CI = 6.6200 to 23.7023

**Testing only moderate intensity burn sites against all fenced sites (BH and DC).**

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
clearcut (all)	90	33.4111	21.1840
moderate burn	41	27.7561	56.3178

Separate Variance t = 0.6232, df = 45.2, Prob = 0.5363  
 Difference in Means = 5.6550, 95.00% CI = -12.6191 to 23.9291  
 Pooled Variance t = 0.8346, df = 129, Prob = 0.4055  
 Difference in Means = 5.6550, 95.00% CI = -7.7503 to 19.0603

**Tushar Mountains Subsection (Pole Creek Fire)**

***Grindstone Flat***

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
GScin-A	10	11.5000	12.5985
GSwin-Z	10	12.9000	10.9082

Separate Variance t = -0.2657, df = 17.6, Prob = 0.7936  
 Difference in Means = -1.4000, 95.00% CI = -12.4878 to 9.6878  
 Pooled Variance t = -0.2657, df = 18, Prob = 0.7935  
 Difference in Means = -1.4000, 95.00% CI = -12.4715 to 9.6715

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
GSout-AA	10	10.0000	8.1786
GSwin-Z	10	12.9000	10.9082

Separate Variance t = -0.6726, df = 16.7, Prob = 0.5104  
 Difference in Means = -2.9000, 95.00% CI = -12.0091 to 6.2091  
 Pooled Variance t = -0.6726, df = 18, Prob = 0.5097  
 Difference in Means = -2.9000, 95.00% CI = -11.9578 to 6.1578

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
GScin-A	10	11.5000	12.5985
GSout-AA	10	10.0000	8.1786

Separate Variance t = 0.3158, df = 15.4, Prob = 0.7564  
 Difference in Means = 1.5000, 95.00% CI = -8.5989 to 11.5989  
 Pooled Variance t = 0.3158, df = 18, Prob = 0.7558  
 Difference in Means = 1.5000, 95.00% CI = -8.4791 to 11.4791

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
GScin-A	9	153.8889	63.3057
GSwin-Z	9	148.1000	80.2439

Separate Variance t = 0.1699, df = 15.2, Prob = 0.8673  
 Difference in Means = 5.7889, 95.00% CI = -66.7549 to 78.3327  
 Pooled Variance t = 0.1699, df = 16, Prob = 0.8672  
 Difference in Means = 5.7889, 95.00% CI = -66.4356 to 78.0134

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
GSout-AA	9	132.2222	71.2158
GSwin-Z	9	148.1000	80.2439

Separate Variance t = -0.4440, df = 15.8, Prob = 0.6631  
 Difference in Means = -15.8778, 95.00% CI = -91.7785 to 60.0229  
 Pooled Variance t = -0.4440, df = 16, Prob = 0.6630  
 Difference in Means = -15.8778, 95.00% CI = -91.6914 to 59.9359

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
GScin-A	9	153.8889	63.3057
GSout-AA	9	132.2222	71.2158

Separate Variance t = 0.6822, df = 15.8, Prob = 0.5050  
 Difference in Means = 21.6667, 95.00% CI = -45.7406 to 89.0739  
 Pooled Variance t = 0.6822, df = 16, Prob = 0.5049  
 Difference in Means = 21.6667, 95.00% CI = -45.6653 to 88.9987

**Rigger Park**

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$  
(fire only = RPufd-B on slope; salvaged = RPH1ufd-AB & RPH2ufd-AF)

Group	N	Mean	SD
fire only	20	32.9500	11.3345
salvaged	25	20.8400	23.6778

Separate Variance t = 2.2546, df = 36.0, Prob = 0.0303  
Difference in Means = 12.1100, 95.00% CI = 1.2167 to 23.0033  
Pooled Variance t = 2.0995, df = 43, Prob = 0.0417  
Difference in Means = 12.1100, 95.00% CI = 0.4775 to 23.7425

These two sites (RPH1ufd-AB, RPH2ufd-AF) were part of the same harvest unit (Rigger Park 1 Fire Salvage), but they had slightly different aspects. They had also received about the same amount of animal damage, but very different amounts of salvage/equipment caused damage (RPH1ufd-AB=22%; RPH2ufd-AF=40%).

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
RPH1ufd-AB	10	24.4000	21.8337
RPH2ufd-AF	15	18.4667	25.2894

Separate Variance t = 0.6244, df = 21.3, Prob = 0.5390  
Difference in Means = 5.9333, 95.00% CI = -13.8108 to 25.6774  
Pooled Variance t = 0.6057, df = 23, Prob = 0.5507  
Difference in Means = 5.9333, 95.00% CI = -14.3323 to 26.1990

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
RPufd-B	20	32.9500	11.3345
RPH1ufd-AB	10	24.4000	21.8337

Separate Variance t = -1.1625, df = 11.5, Prob = 0.2686  
Difference in Means = -8.5500, 95.00% CI = -24.6542 to 7.5542  
Pooled Variance t = -1.4238, df = 28, Prob = 0.1656  
Difference in Means = -8.5500, 95.00% CI = -20.8508 to 3.7508

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
RPufd-B	20	32.9500	11.3345
RPH2ufd-AF	15	18.4667	25.2894

Separate Variance t = -2.0678, df = 18.2, Prob = 0.0532  
Difference in Means = -14.4833, 95.00% CI = -29.1855 to 0.2188  
Pooled Variance t = -2.2819, df = 33, Prob = 0.0291  
Difference in Means = -14.4833, 95.00% CI = -27.3964 to -1.5703

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
RPufd-B	20	32.9500	11.3345
RPH3ufd-AD	15	5.5333	7.5296

Separate Variance t = -8.5831, df = 32.6, Prob = 0.0000  
 Difference in Means = -27.4167, 95.00% CI = -33.9183 to -20.9150  
 Pooled Variance t = -8.1074, df = 33, Prob = 0.0000  
 Difference in Means = -27.4167, 95.00% CI = -34.2967 to -20.5366

Two-sample t test on LIVESTEMSPP grouped by SITEID\$

Group	N	Mean	SD
RPufd-B	20	32.9500	11.3345
RPH4ufd-AE	10	39.0000	29.0708

Separate Variance t = 0.6344, df = 10.4, Prob = 0.5395  
 Difference in Means = 6.0500, 95.00% CI = -15.0894 to 27.1894  
 Pooled Variance t = 0.8247, df = 28, Prob = 0.4165  
 Difference in Means = 6.0500, 95.00% CI = -8.9780 to 21.0780

Two-sample t test on HEIGHTCM grouped by TREATMENT\$

(fire only = RPufd-B on slope; salvaged = RPH1ufd-AB & RPH2ufd-AF)

Group	N	Mean	SD
fire only	20	218.6500	41.5404
salvaged	20	149.1000	40.7262

Separate Variance t = 5.3467, df = 38.0, Prob = 0.0000  
 Difference in Means = 69.5500, 95.00% CI = 43.2161 to 95.8839  
 Pooled Variance t = 5.3467, df = 38, Prob = 0.0000  
 Difference in Means = 69.5500, 95.00% CI = 43.2164 to 95.8836

These two sites (RPH1ufd-AB, RPH2ufd-AF) were part of the same harvest unit (Rigger Park 1 Fire Salvage), but they had slightly different aspects. They had also received about the same amount of animal damage, but very different amounts of salvage/equipment caused damage (RPH1ufd-AB=22%; RPH2ufd-AF=40%).

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
RPH1ufd-AB	8	174.1250	28.3369
RPH2ufd-AF	12	132.4167	39.9351

Separate Variance t = 2.7308, df = 17.9, Prob = 0.0138  
 Difference in Means = 41.7083, 95.00% CI = 9.6037 to 73.8129  
 Pooled Variance t = 2.5473, df = 18, Prob = 0.0202  
 Difference in Means = 41.7083, 95.00% CI = 7.3084 to 76.1083

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
RPufd-B	20	218.6500	41.5404
RPH1ufd-AB	8	174.1250	28.3369

Separate Variance t = -3.2590, df = 19.0, Prob = 0.0041  
Difference in Means = -44.5250, 95.00% CI = -73.1174 to -15.9326  
Pooled Variance t = -2.7693, df = 26, Prob = 0.0102  
Difference in Means = -44.5250, 95.00% CI = -77.5744 to -11.4756

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
RPufd-B	20	218.6500	41.5404
RPH2ufd-AF	12	132.4167	39.9351

Separate Variance t = -5.8247, df = 24.1, Prob = 0.0000  
Difference in Means = -86.2333, 95.00% CI = -116.7855 to -55.6812  
Pooled Variance t = -5.7657, df = 30, Prob = 0.0000  
Difference in Means = -86.2333, 95.00% CI = -116.7779 to -55.6888

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
RPufd-B	20	218.6500	41.5404
RPH3ufd-AD	7	126.7143	37.5886

Separate Variance t = -5.4162, df = 11.6, Prob = 0.0002  
Difference in Means = -91.9357, 95.00% CI = -129.0765 to -54.7949  
Pooled Variance t = -5.1529, df = 25, Prob = 0.0000  
Difference in Means = -91.9357, 95.00% CI = -128.6811 to -55.1903

Two-sample t test on HEIGHTCM grouped by SITEID\$

Group	N	Mean	SD
RPufd-B	20	218.6500	41.5404
RPH4ufd-AE	9	175.5556	58.5899

Separate Variance t = -1.9927, df = 11.8, Prob = 0.0700  
Difference in Means = -43.0944, 95.00% CI = -90.3143 to 4.1254  
Pooled Variance t = -2.2728, df = 27, Prob = 0.0312  
Difference in Means = -43.0944, 95.00% CI = -81.9986 to -4.1902

In these last two t-tests, I pooled all the data from the salvaged sites and compared it against the sloped, unsalvaged Rigger Park (RPufd-B/ control) site.

Two-sample t test on LIVESTEMSPP grouped by TREATMENT\$

Group	N	Mean	SD
fire only	20	32.9500	11.3345
salvaged	50	19.8800	24.1683

Separate Variance t = 3.0716, df = 66.1, Prob = 0.0031  
Difference in Means = 13.0700, 95.00% CI = 4.5748 to 21.5652  
Pooled Variance t = 2.3113, df = 68, Prob = 0.0239  
Difference in Means = 13.0700, 95.00% CI = 1.7862 to 24.3538

Two-sample t test on HEIGHTCM grouped by TREATMENT\$

Group	N	Mean	SD
fire only	20	218.6500	41.5404
salvaged	36	151.3611	46.9274

Separate Variance t = 5.5414, df = 43.6, Prob = 0.0000  
Difference in Means = 67.2889, 95.00% CI = 42.8099 to 91.7679  
Pooled Variance t = 5.3492, df = 54, Prob = 0.0000  
Difference in Means = 67.2889, 95.00% CI = 42.0689 to 92.5089