

Table 1: Stand attributes for overstory, fuels, site productivity, competition, and understory based on Ecosystem Assessment conducted in Fall 2017 by NAU students in FOR413 for nine stands (plots n = 75) on Observatory Mesa, Flagstaff, AZ. See attached map for stand and plot locations.

Overstory (Mean±1SE)	Stand								
	1	2	8	9	11	12	14	18	21
Basal Area (ft ² /ac)	111.1 (±41.1)	157.5 (±36.4)	35.9 (±10.3)	40 (±8.3)	86.7 (±21.9)	40 (±0)	31.1 (±7.5)	46.7 (±23.3)	34 (±8.5)
Board Foot Vol. (MBF/ac)	4.9 (±1.4)	7 (±1.1)	2.4 (±0.5)	2.7 (±0.6)	6 (±1.5)	4.4 (±1.7)	2.7 (±0.6)	3.8 (±1.7)	2.1 (±0.5)
Cubic Foot Vol. (CCF/ac)	20 (±7.2)	26.7 (±5.5)	6.7 (±1.6)	7.7 (±1.6)	17.9 (±4.4)	9.2 (±1.9)	6.6 (±1.6)	9.6 (±4.6)	5.8 (±1.5)
Tree Density (trees/ac)	268.7 (±123)	350.9 (±113.4)	49.3 (±17.9)	69.4 (±17.4)	151 (±58.2)	37.7 (±12.9)	28.3 (±10)	55.7 (±42.2)	31.8 (±10.2)

Fuels	Stand								
	1	2	8	9	11	12	14	18	21
1 Hr (tons/ac)	0.18	0.10	0.15	0.08	0.10	0.10	0.12	0.13	0.12
10 Hr (tons/ac)	0.86	1.09	1.46	0.86	0.16	0.36	1.39	0.88	1.04
100 Hr (tons/ac)	1.54	1.54	1.89	1.75	1.54	3.84	1.53	1.02	0.77
3+ Woody Debris (tons/ac)	0.03	-	0.03	-	0.04	-	-	0.05	0.02
Litter (tons/ac)	1.11	1.45	1.32	1.73	1.85	3.04	1.39	0.59	1.31
Duff (tons/ac)	1.93	2.85	2.21	1.29	2.04	1.79	1.26	0.28	1.12
Total (tons/ac)	5.66	7.03	7.06	5.71	5.74	9.12	5.70	2.95	4.37

Productivity/Competition									
Site Index (ft, base age 100)	73.3	77.8	71.0	70.7	91.1	76.4	76.3	99.4	82.4
Stand Density Index	215.2	300.1	62.1	72.5	157.3	64.3	49.6	78.6	54.6
Relative Density Index	0.48	0.67	0.14	0.16	0.35	0.14	0.11	0.17	0.12

Understory									
All Cover (%)	12.3	10.4	31.7	21.1	39.0	14.0	41.6	30.0	46.8
Forb Cover (%)	5.8	0.2	3.5	1.5	0.5	1.5	4.7	6.7	4.6
Grass Cover (%)	5.9	9.3	22.6	13.0	14.7	11.5	21.7	23.2	25.0
Herb. Production (lbs/ac)	63.5	48.3	150.4	130.2	69.2	67.2	121.9	71.1	156.5
Invasives Freq. (% of plots)	14.3	16.7	13.4	7.1	33.3	50.0	17.2	33.3	10.0

