DCR: DSPR Post-management monitoring **November 2019**
Manuel Correllus State Forest – Dead Red Pine Salvage Lot

Overview:

This post-harvest inventory was conducted on the 89 acre dead red pine salvage harvest conducted the winter of 2011. The red pine plantation in which the salvage was conducted was located southwest of the intersection of fire roads 6 and C, in the Manuel Correllus State Forest in the Town of West Tisbury. All the red pine had died several years before the 2011 harvest. The purpose of the project was to lower the risk of wildfire, restore native vegetation and rare species habitat, and improve public safety and aesthetics. The harvesting was done with a feller buncher, grapple skidder, and a whole tree chipper. White oak, post oak, and scrub oak were well distributed throughout the project area pre-harvest. The red pine plantation had become infected with the fungal pathogen *Diplodia pinea*. The project was funded by a U.S. Forest Service Wildland-Urban Interface Fuels Management grant. Approximately 110 acres of dead red pine plantations had been removed previously from 2008 to 2010.

A post-harvest inventory was conducted in which 25 points were systematically located in the harvest area. At each point, overstory trees (≥ 1 in. DBH) were sampled using horizontal point sampling with a BAF 10 angle gauge; understory trees (< 1 in. DBH, ≥ 3 in. tall) were sampled using circular plots of radius 6.0 ft.; and CWD was sampled using line intersect sampling with a single 50 ft. long transect at each point. Field inventory was conducted during October 2019, under dry fall conditions using standards set forth in the DCR: DSPR Post-management Inventory Protocol. Photographs were taken at all of these points.

Overstory observations:

The area was burned by a wildfire in 1946. The red pine plantation was established in the 1960s. The 2011 operation removed all the dead red pine trees. Now the overstory includes post, white, and black oaks, and pitch pines. Oak species dominate; with pitch pine being highly scattered throughout the project area but tending to be of larger diameter. White and post oak compose 91% of the 35 ft^2/ac basal area live of overstory trees. Only one snag, 2 in. DBH, was selected into the sample.

Understory observations:

The understory comprises post, white, black, and undetermined oak species. The ground cover included both woody and herbaceous species, most of which is dominated by areas of thick scrub oak with huckleberry, lowbush blueberry, and ferns (see photos). No invasive species were observed in the project area. Post oak and undetermined oak species compose 81% of the 323 trees per acre < 1 in. DBH.

Coarse woody debris observations:

Harvesting operations did not create CWD as only a couple of pieces were seen while sampling the project area and no such material was found in any of the sampling plots. Little CWD is being produced at present, as the trees are relatively small in diameter and height due to being located on a glacial outwash sandy plain with low amounts of nutrients in the soil.

Photographs:



View showing thick scrub oak and scattered trees.



View of scattered oak trees, representative of current conditions throughout the project area.



View showing white oak trees with thick scrub oak in the background.

STANDING LIVE TREES;
ALL SIZES -
STAND TABLE

COMMON NAME	pitch pine		oak spp.		white oak		post oak		black oak	
SPCD	126	126	800	800	802	802	835	835	837	837
HT (FT) / DBH (IN) CLASS	BA	TPA	BA	TPA	BA	TPA	BA	TPA	BA	TPA
3.0 IN ≤ HT < 4.5 FT.	0	0	0	108	0	15	0	139	0	46
4.5 FT ≤ HT < 10.0 FT.	0	0	0	0	0	0	0	15	0	0
10.0 FT ≤ HT > 15.0 FT. / < 1.0 IN. DBH	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	3	196	0	0
4	0	0	0	0	3	39	6	73	0	5
6	0	0	0	0	7	36	3	17	2	8
8	0	0	0	0	4	10	2	5	1	2
10	0	0	0	0	2	4	0	1	0	0
12	1	1	0	0	1	1	0	1	0	0
14	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0
≥50	0	0	0	0	0	0	0	0	0	0
TOTALS	**1**	**1**	**0**	**108**	**17**	**106**	**15**	**446**	**3**	**62**

STANDING LIVE TREES;
ALL SIZES -
STAND TABLE

COMMON NAME **SPCD** **HT (FT) / DBH (IN) CLASS**	TOTAL **BA**	TOTAL **TPA**
3.0 IN ≤ HT < 4.5 FT.	0	308
4.5 FT ≤ HT < 10.0 FT.	0	15
10.0 FT ≤ HT > 15.0 FT. / < 1.0 IN. DBH	0	0
2	3	196
4	10	117
6	12	61
8	6	17
10	3	5
12	2	3
14	0	0
16	0	0
18	0	0
20	0	0
22	0	0
24	0	0
26	0	0
28	0	0
30	0	0
32	0	0
34	0	0
36	0	0
38	0	0
40	0	0
42	0	0
44	0	0
46	0	0
48	0	0
≥50	0	0
TOTALS	**35**	**722**

STANDING DEAD TREES;
≥ 1 IN. DBH -
STAND TABLE

COMMON NAME	pitch pine		oak spp.		white oak		post oak		black oak	
SPCD	126	126	800	800	802	802	835	835	837	837
HT (FT) / DBH (IN) CLASS	**BA**	**TPA**	**BA**	**TPA**	**BA**	**TPA**	**BA**	**TPA**	**BA**	**TPA**
3.0 IN ≤ HT < 4.5 FT.	0	0	0	0	0	0	0	0	0	0
4.5 FT ≤ HT < 10.0 FT.	0	0	0	0	0	0	0	0	0	0
10.0 FT ≤ HT > 15.0 FT. / < 1.0 IN. DBH	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	1	49	0	0
4	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0
≥50	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**49**	**0**	**0**

STANDING DEAD TREES;
≥ 1 IN. DBH -
STAND TABLE

COMMON NAME **SPCD** **HT (FT) / DBH (IN) CLASS**	TOTAL **BA**	TOTAL **TPA**
3.0 IN ≤ HT < 4.5 FT.	0	0
4.5 FT ≤ HT < 10.0 FT.	0	0
10.0 FT ≤ HT > 15.0 FT. / < 1.0 IN. DBH	0	0
2	1	49
4	0	0
6	0	0
8	0	0
10	0	0
12	0	0
14	0	0
16	0	0
18	0	0
20	0	0
22	0	0
24	0	0
26	0	0
28	0	0
30	0	0
32	0	0
34	0	0
36	0	0
38	0	0
40	0	0
42	0	0
44	0	0
46	0	0
48	0	0
≥50	0	0
TOTALS	**1**	**49**

COARSE WOODY DEBRIS SUMMARY (DEAD; >45° FROM VERTICAL; ≥ 3.0 IN DIA; ≥ 3.0 FT LENGTH)

PIECES/ AC	PIECE CF/AC	PILES (DIMENSIONS)/AC	PILE CF/AC	PILE DEPTH CF/AC	TOTAL CWD CF/AC: PIECES + PILE DIMENSIONS	TOTAL CWD CF/AC: PIECES + PILE DEPTH
0.0	0.0	0.0	0.0	0.0	0.0	0.0