

Dry & Mesic Highlands Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Event details

Site Name:	<input type="text"/>	Team:	<input type="text"/>	
GPS Unit:	<input type="text"/>	Ecological System: <input type="text"/>		
Datum:	<input type="text"/>			
Latitude:	<input type="text"/>			decimal degrees decimal degrees
Longitude:	<input type="text"/>			
PDOP:	<input type="text"/>			
Number of Satellites:	<input type="text"/>			
Directions to plot:	<input type="text"/>			
	Assessment Area/Site Description: <input type="text"/>			
	Consider for EO (check box)? <input type="checkbox"/> EO Comments: <input type="text"/>			

Basal Area of Southern Yellow Pine Canopy Trees		Dry & Mesic Highlands Pine Woodlands		Rating Points
>35-75 ft ² /acre basal area of shortleaf pine (Pinus echinata)				4 Raw Value: <input type="text"/>
30 to 35 or >75 to 90 ft ² /acre basal area of shortleaf pine (Pinus echinata)				3 <input type="text"/>
10 to <30 or >90 to 110 ft ² /acre basal area of shortleaf pine (Pinus echinata)				2 Rating <input type="text"/>
<10 or >110 ft ² /acre basal area of shortleaf pine (Pinus echinata)				1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Stand Age Structure (14" cutoff)		Dry & Mesic Highlands Pine Woodlands		Rating Points
Basal area ≥20 ft ² /acre of shortleaf pine trees ≥14" DBH class				4 Raw Value: <input type="text"/>
Basal area ≥10 ft ² /acre of shortleaf pine trees ≥14" DBH class				3 <input type="text"/>
Shortleaf pine trees ≥14" DBH class are present, but <10 ft ² /acre basal area of those large trees				2 Rating <input type="text"/>
No shortleaf pine trees ≥14" DBH are present				1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Stand Age Structure (12" cutoff)		Dry & Mesic Highlands Pine Woodlands		Rating Points
Basal area ≥20 ft ² /acre of shortleaf pine trees ≥12" DBH class				4 Raw Value: <input type="text"/>
Basal area ≥10 ft ² /acre of shortleaf pine trees ≥12" DBH class				3 <input type="text"/>
Shortleaf pine trees ≥12" DBH class are present, but <10 ft ² /acre basal area of those large trees				2 Rating <input type="text"/>
No shortleaf pine trees ≥12" DBH are present				1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Canopy Hardwood Basal Area		Dry & Mesic Highlands Pine Woodlands		Rating Points
≤20 ft ² /acre basal area of hardwood trees				4 Raw Value: <input type="text"/>
>20 to 40 ft ² /acre basal area of hardwood trees				3 <input type="text"/>
>40 to 50 ft ² /acre basal area of hardwood trees				2 Rating <input type="text"/>
>50 ft ² /acre basal area of hardwood trees				1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Dry & Mesic Highlands Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Canopy Hardwood Basal Area - Fire-Intolerant		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
≤10 ft ² /acre basal area of fire intolerant hardwood trees		4	Raw Value: <input type="text"/>
>10 to 20 ft ² /acre basal area of fire intolerant hardwood trees		3	<input type="text"/>
>20 to 30 ft ² /acre basal area of fire intolerant hardwood trees		2	Rating (1-4): <input type="text"/>
>30 ft ² /acre basal area of fire intolerant hardwood trees		1	<input type="text"/>
readings	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		

Southern Yellow Pine Canopy Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
>25 to 70% canopy cover of shortleaf pine (<i>Pinus echinata</i>)		4	Raw Value: <input type="text"/>
20-25% canopy cover or >70 to 80% canopy cover of shortleaf pine (<i>Pinus echinata</i>)		3	<input type="text"/>
10 to <20% canopy cover or >80 to 90% canopy cover of shortleaf pine (<i>Pinus echinata</i>)		2	Rating (1-4): <input type="text"/>
<10% canopy cover or >90% canopy cover of shortleaf pine (<i>Pinus echinata</i>)		1	<input type="text"/>

Stand Density Index		<i>Dry & Mesic Highlands Shortleaf Pine Woodlands</i>	Rating Points
SDI = 65 – 135 (14-30% of Maximum SDI of 450)		4	Raw Value: <input type="text"/>
SDI = 45 – 65 or 135 -180 (10-14% or 30-40% of Maximum SDI of 450, 35 – 40% SDI is near maximum of stand growth)		3	<input type="text"/>
SDI = 20 – 45 or 180 - 225 (4-10% or 40-50% of Maximum SDI, 270 is 60% of Maximum SD of 450, which is the onset of self-thinning)		2	Rating (1-4): <input type="text"/>
SDI <20 or >225 (<4% or > 50%, 270 is 60% of Maximum SD of 450, the onset of self-thinning)		1	<input type="text"/>
list of DBHs	<input type="text"/>		

Stand Density Index		<i>Dry & Mesic Highlands Longleaf Pine Woodlands</i>	Rating Points
SDI = 55 – 120 (14-30% of Maximum SDI of 400)		4	Raw Value: <input type="text"/>
SDI = 40 – 55 or 120 -160 (10-14% or 30-40% of Maximum SDI of 400, 35 – 40% SDI is near maximum of stand growth)		3	<input type="text"/>
SDI = 15 – 40 or 160 - 200 (4-10% or 40-50% of Maximum SDI, 240 is 60% of Maximum SD of 400, which is the onset of self-thinning)		2	Rating (1-4): <input type="text"/>
SDI <15 or >200 (<4% or > 50%, 240 is 60% of Maximum SD of 400, the onset of self-thinning)		1	<input type="text"/>
list of DBHs	<input type="text"/>		

Dry & Mesic Highlands Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID:

Date:

Canopy Overall Ecological Assessment

comments

Dry & Mesic Highlands Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Midstory Fire-Tolerant Hardwood Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
2 to 10% cover of midstory fire-tolerant hardwoods	4	Raw Value:	<input type="text"/>
10 to 30%, or <2% cover of midstory fire-tolerant hardwoods	3		<input type="text"/>
>30 to 40% cover of midstory fire-tolerant hardwoods	2	Rating	<input type="text"/>
>40% cover of midstory fire-tolerant hardwoods	1	(1-4):	<input type="text"/>

Midstory Fire-Intolerant Hardwood Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
<5% cover of fire-intolerant hardwood midstory	4	Raw Value:	<input type="text"/>
5 to 10% cover of fire-intolerant hardwood midstory	3		<input type="text"/>
>10 to 20% cover of fire-intolerant hardwood midstory	2	Rating	<input type="text"/>
>20% cover of fire-intolerant hardwood midstory	1	(1-4):	<input type="text"/>

Midstory Overall Woody Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
2 to <20% cover of woody midstory	4	Raw Value:	<input type="text"/>
20-25%, or <2% cover of woody midstory	3		<input type="text"/>
>25 to 35% cover of woody midstory	2	Rating	<input type="text"/>
>35% cover of woody midstory	1	(1-4):	<input type="text"/>

Midstory Overall Ecological Assessment

comments

Dry & Mesic Highlands Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Tall Shrub (3-10 feet tall) Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
Shrubs 3-10 feet in height average <15% cover.	4	Raw Value:	<input type="text"/>
Shrubs 3-10 feet in height average 15 to 20% cover.	3		<input type="text"/>
Shrubs 3-10 feet in height average >20 to 30% cover.	2	Rating	<input type="text"/>
Shrubs 3-10 feet in height average >30% cover.	1	(1-4):	<input type="text"/>

Short Shrub (<3 feet tall) Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
Shrubs < 3 feet in height average <20% cover in the assessment area	4	Raw Value:	<input type="text"/>
Shrubs < 3 feet in height average 20 to 25% cover in the assessment area	3		<input type="text"/>
Shrubs < 3 feet in height average >25 to 40% cover in the assessment area	2	Rating	<input type="text"/>
Shrubs < 3 feet in height average >40% cover in the assessment area	1	(1-4):	<input type="text"/>

Longleaf Pine Regeneration		<i>Rapid Assessment Location</i>	Rating Points
Longleaf pine regeneration (<2" DBH) cover is ≥1% at rapid assessment location	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is <1% at rapid assessment location	3		<input type="text"/>
No Longleaf pine regeneration (<2" DBH) cover seen, but cone-producing longleaf pine or longleaf pine >10" DBH are present rapid assessment location	2	Rating	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is apparently absent, and no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present at the rapid assessment location	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Longleaf Pine Regeneration		<i>Stand Level</i>	Rating Points
Longleaf pine regeneration is present in patches across the stand, these patches are 5-15 % of the stand (about 1/20 to 1/6 of the stand)	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration is present in patches across the stand, these patches are 1-5 % of the stand or >15% of the stand (less than 1/20 or more than 1/6 of the stand)	3		<input type="text"/>
Longleaf pine regeneration is very sparse across stand, patches of longleaf pine regeneration are <1% of stand, or cone-producing longleaf pine or longleaf pine >10" DBH are present	2	Rating	<input type="text"/>
Longleaf pine regeneration is apparently absent in stand, and apparently no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present in the stand	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Shrub Overall Ecological Assessment

comments

Dry & Mesic Highlands Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Overall Native Herbaceous Ground Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
>45 to 80% herbaceous cover		4	Raw Value: <input type="text"/>
30-45% or >80% herbaceous cover		3	<input type="text"/>
15 to <30% herbaceous cover		2	Rating <input type="text"/>
<15% herbaceous cover		1	(1-4): <input type="text"/>

Native Warm Season Grass Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
>25 to 85% cover of all native warm season grasses		4	Raw Value: <input type="text"/>
>15 to 25% or >85% cover of all native warm season grasses		3	<input type="text"/>
10 -15% cover of all native warm season grasses		2	Rating <input type="text"/>
<10% cover of all native warm season grasses		1	(1-4): <input type="text"/>

Invasive Plant Presence/Distribution			Rating Points
Invasive nonnative plant species absent		4	Raw Value: <input type="text"/>
Invasive nonnative plant species present in any stratum but sporadic (<5% cover)		3	<input type="text"/>
Invasive nonnative plant species in any stratum uncommon (5-10% cover)		2	Rating <input type="text"/>
Invasive nonnative plant species in any stratum common (>10% cover)		1	(1-4): <input type="text"/>

Herbaceous Indicators of Soil Disturbance			Rating Points
Total cover for herbaceous indicators of soil disturbance <2%		4	Raw Value: <input type="text"/>
Total cover for herbaceous indicators of soil disturbance 2-5%		3	<input type="text"/>
Total cover for herbaceous indicators of soil disturbance >5-10%		2	Rating <input type="text"/>
Total cover for herbaceous indicators of soil disturbance >10%		1	(1-4): <input type="text"/>

Groundcover Overall Ecological Assessment	
comments	<input style="width: 100%; height: 100%;" type="text"/>

Dry & Mesic Highlands Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Contiguous Natural Land Cover		Rating Points	LAN1
Intact: Embedded in 90-100% natural habitat around Assessment Area.	4	Raw Value:	<input type="text"/>
Variiegated: Embedded in 60-<90% natural habitat.	3		<input type="text"/>
Fragmented: Embedded in 20-<60% natural habitat.	2	Rating	<input type="text"/>
Relictual: Embedded in <20% natural habitat.	1	(1-4):	<input type="text"/>
Land Use Index		Rating Points	LAN2
Average Land Use Score = 9.5-10	4	Raw Value:	<input type="text"/>
Average Land Use Score = 8.0-9.4	3		<input type="text"/>
Average Land Use Score = 4.0-7.9	2	Rating	<input type="text"/>
Average Land Use Score < 4.0	1	(1-4):	<input type="text"/>
Perimeter with Natural Buffer		Rating Points	BUF1
Natural buffer is 100% of perimeter	4	Raw Value:	<input type="text"/>
Buffer is 75-99% of perimeter	3		<input type="text"/>
Buffer is 25-<75% of perimeter	2	Rating	<input type="text"/>
Buffer is <25% of perimeter	1	(1-4):	<input type="text"/>

Dry & Mesic Highlands Pine Woodlands (Mountain Longleaf) (DMHPW(L) EIA datasheet Open Pine (metrics)

Plot ID: Date:

Event details

Site Name: Team:

GPS Unit:

Datum:

Latitude: decimal degrees

Longitude: decimal degrees

PDOP:

Number of Satellites:

Ecological System:

Assessment Area/Site Description:

Directions to plot:

Consider for EO (check box)? EO Comments:

Basal Area of Southern Yellow Pine Canopy Trees *Dry & Mesic Highlands Pine Woodlands* **Rating Points**

>35-75 ft2/acre basal area of longleaf pine (Pinus palustris) and shortleaf pine (Pinus echinata)	4	Raw Value: <input type="text"/>
30 to 35 or >75 to 90 ft2/acre basal area of longleaf pine (Pinus palustris) and shortleaf pine (Pinus echinata)	3	<input type="text"/>
10 to <30 or >90 to 110 ft2/acre basal area of longleaf pine (Pinus palustris) and shortleaf pine (Pinus echinata)	2	Rating (1-4): <input type="text"/>
<10 or >110 ft2/acre basal area of longleaf pine (Pinus palustris) and shortleaf pine (Pinus echinata)	1	<input type="text"/>

readings

Southern Yellow Pine Stand Age Structure (14" cutoff) *Dry & Mesic Highlands Pine Woodlands* **Rating Points**

Basal area ≥20 ft2/acre of longleaf pine and/or shortleaf pine trees ≥14" DBH class or flat-top longleaf pine is present	4	Raw Value: <input type="text"/>
Basal area ≥10 ft2/acre of longleaf pine and/or shortleaf pine trees ≥14" DBH class. No flat-top longleaf pine is present.	3	Rating (1-4): <input type="text"/>
Longleaf pine and/or shortleaf pine trees ≥14" DBH class are present, but <10 ft2/acre basal area of those large trees. No flat-top longleaf pine is present.	2	<input type="text"/>
No longleaf pine and/or shortleaf pine trees ≥14" DBH nor flat-top longleaf pine are present	1	<input type="text"/>

readings flat-top pine present

Southern Yellow Pine Stand Age Structure (12" cutoff) *Dry & Mesic Highlands Pine Woodlands* **Rating Points**

Basal area ≥20 ft2/acre of longleaf pine and/or shortleaf pine trees ≥12" DBH class or flat-top longleaf pine is present	4	Raw Value: <input type="text"/>
Basal area ≥10 ft2/acre of longleaf pine and/or shortleaf pine trees ≥12" DBH class. No flat-top longleaf pine is present.	3	Rating (1-4): <input type="text"/>
Longleaf pine and/or shortleaf pine trees ≥12" DBH class are present, but <10 ft2/acre basal area of those large trees. No flat-top longleaf pine is present.	2	<input type="text"/>
No longleaf pine and/or shortleaf pine trees ≥12" DBH nor flat-top longleaf pine are present	1	<input type="text"/>

readings flat-top pine present

Dry & Mesic Highlands Pine Woodlands (Mountain Longleaf) (DMHPW(L) EIA datasheet Open Pine (metrics)

Plot ID: Date:

Canopy Hardwood Basal Area		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
≤20 ft ² /acre basal area of hardwood trees		4	Raw Value: <input type="text"/>
>20 to 40 ft ² /acre basal area of hardwood trees		3	<input type="text"/>
>40 to 50 ft ² /acre basal area of hardwood trees		2	Rating (1-4): <input type="text"/>
>50 ft ² /acre basal area of hardwood trees		1	<input type="text"/>
readings	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		

Canopy Hardwood Basal Area - Fire-Intolerant		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
≤10 ft ² /acre basal area of fire intolerant hardwood trees		4	Raw Value: <input type="text"/>
>10 to 20 ft ² /acre basal area of fire intolerant hardwood trees		3	<input type="text"/>
>20 to 30 ft ² /acre basal area of fire intolerant hardwood trees		2	Rating (1-4): <input type="text"/>
>30 ft ² /acre basal area of fire intolerant hardwood trees		1	<input type="text"/>
readings	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		

Southern Yellow Pine Canopy Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
>25 to 70% canopy cover of longleaf pine (<i>Pinus palustris</i>) and shortleaf pine (<i>Pinus echinata</i>)		4	Raw Value: <input type="text"/>
20-25% canopy cover or >70 to 80% canopy cover of longleaf pine (<i>Pinus palustris</i>) and shortleaf pine (<i>Pinus echinata</i>)		3	<input type="text"/>
10 to <20% canopy cover or >80 to 90% canopy cover of longleaf pine (<i>Pinus palustris</i>) and shortleaf pine (<i>Pinus echinata</i>)		2	Rating (1-4): <input type="text"/>
<10% canopy cover or >90% canopy cover of longleaf pine (<i>Pinus palustris</i>) and shortleaf pine (<i>Pinus echinata</i>)		1	<input type="text"/>

Stand Density Index		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
SDI = 55 – 120 (14-30% of Maximum SDI of 400)		4	Raw Value: <input type="text"/>
SDI = 40 – 55 or 120 -160 (10-14% or 30-40% of Maximum SDI of 400, 35 – 40% SDI is near maximum of stand growth)		3	<input type="text"/>
SDI = 15 – 40 or 160 - 200 (4-10% or 40-50% of Maximum SDI, 240 is 60% of Maximum SD of 400, which is the onset of self-thinning)		2	Rating (1-4): <input type="text"/>
SDI <15 or >200 (<4% or > 50%, 240 is 60% of Maximum SD of 400, the onset of self-thinning)		1	<input type="text"/>
list of DBHs	<input type="text"/>		

Canopy Overall Ecological Assessment	
comments	<input type="text"/>

Dry & Mesic Highlands Pine Woodlands (Mountain Longleaf) (DMHPW(L) EIA datasheet Open Pine (metrics)

Plot ID: Date:

Midstory Fire-Tolerant Hardwood Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
2 to 10% cover of midstory fire-tolerant hardwoods	4	Raw Value:	<input type="text"/>
10 to 30%, or <2% cover of midstory fire-tolerant hardwoods	3		<input type="text"/>
>30 to 40% cover of midstory fire-tolerant hardwoods	2	Rating	<input type="text"/>
>40% cover of midstory fire-tolerant hardwoods	1	(1-4):	<input type="text"/>

Midstory Fire-Intolerant Hardwood Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
<5% cover of fire-intolerant hardwood midstory	4	Raw Value:	<input type="text"/>
5 to 10% cover of fire-intolerant hardwood midstory	3		<input type="text"/>
>10 to 20% cover of fire-intolerant hardwood midstory	2	Rating	<input type="text"/>
>20% cover of fire-intolerant hardwood midstory	1	(1-4):	<input type="text"/>

Midstory Overall Woody Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
2 to <20% cover of woody midstory	4	Raw Value:	<input type="text"/>
20-25%, or <2% cover of woody midstory	3		<input type="text"/>
>25 to 35% cover of woody midstory	2	Rating	<input type="text"/>
>35% cover of woody midstory	1	(1-4):	<input type="text"/>

Midstory Overall Ecological Assessment

comments

Dry & Mesic Highlands Pine Woodlands (Mountain Longleaf) (DMHPW(L) EIA datasheet Open Pine (metrics)

Plot ID: Date:

Tall Shrub (3-10 feet tall) Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
Shrubs 3-10 feet in height average <15% cover.	4	Raw Value:	<input type="text"/>
Shrubs 3-10 feet in height average 15 to 20% cover.	3	Rating	<input type="text"/>
Shrubs 3-10 feet in height average >20 to 30% cover.	2	(1-4):	<input type="text"/>
Shrubs 3-10 feet in height average >30% cover.	1		

Short Shrub (<3 feet tall) Cover		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
Shrubs < 3 feet in height average <20% cover in the assessment area	4	Raw Value:	<input type="text"/>
Shrubs < 3 feet in height average 20 to 25% cover in the assessment area	3	Rating	<input type="text"/>
Shrubs < 3 feet in height average >25 to 40% cover in the assessment area	2	(1-4):	<input type="text"/>
Shrubs < 3 feet in height average >40% cover in the assessment area	1		

Longleaf Pine Regeneration		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
Longleaf pine regeneration (<2" DBH) cover is ≥1% at rapid assessment location	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is <1% at rapid assessment location	3	Rating	<input type="text"/>
No Longleaf pine regeneration (<2" DBH) cover seen, but cone-producing longleaf pine or longleaf pine >10" DBH are present rapid assessment location	2	(1-4):	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is apparently absent, and no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present at the rapid assessment location	1		

>10" DBH or cone-producing longleaf present

Longleaf Pine Regeneration		<i>Dry & Mesic Highlands Pine Woodlands</i>	Rating Points
Longleaf pine regeneration is present in patches across the stand, these patches are 5-15 % of the stand (about 1/20 to 1/6 of the stand)	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration is present in patches across the stand, these patches are 1-5 % of the stand or >15% of the stand (less than 1/20 or more than 1/6 of the stand)	3	Rating	<input type="text"/>
Longleaf pine regeneration is very sparse across stand, patches of longleaf pine regeneration are <1% of stand, or cone-producing longleaf pine or longleaf pine >10" DBH are present	2	(1-4):	<input type="text"/>
Longleaf pine regeneration is apparently absent in stand, and apparently no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present in the stand	1		

>10" DBH or cone-producing longleaf present

Shrub Overall Ecological Assessment

comments

Dry & Mesic Highlands Pine Woodlands (Mountain Longleaf) (DMHPW(L) EIA datasheet Open Pine (metrics

Plot ID: Date:

Overall Native Herbaceous Ground Cover *Dry & Mesic Highlands Pine Woodlands* **Rating Points**

>45 to 80% herbaceous cover	4	Raw Value:
30-45% or >80% herbaceous cover	3	<input type="text"/>
15 to <30% herbaceous cover	2	Rating
<15% herbaceous cover	1	(1-4): <input type="text"/>

Native Warm Season Grass Cover *Dry & Mesic Highlands Pine Woodlands* **Rating Points**

>25 to 85% cover of all native warm season grasses	4	Raw Value:
20 to 25% or >85% cover of all native warm season grasses	3	<input type="text"/>
10 to <20% cover of all native warm season grasses	2	Rating
<10% cover of all native warm season grasses	1	(1-4): <input type="text"/>

Invasive Plant Presence/Distribution **Rating Points**

Invasive nonnative plant species absent	4	Raw Value:
Invasive nonnative plant species present in any stratum but sporadic (<5% cover)	3	<input type="text"/>
Invasive nonnative plant species in any stratum uncommon (5-10% cover)	2	Rating
Invasive nonnative plant species in any stratum common (>10% cover)	1	(1-4): <input type="text"/>

Herbaceous Indicators of Soil Disturbance **Rating Points**

Total cover for herbaceous indicators of soil disturbance <2%	4	Raw Value:
Total cover for herbaceous indicators of soil disturbance 2-5%	3	<input type="text"/>
Total cover for herbaceous indicators of soil disturbance >5-10%	2	Rating
Total cover for herbaceous indicators of soil disturbance >10%	1	(1-4): <input type="text"/>

Groundcover Overall Ecological Assessment

comments

Dry & Mesic Highlands Pine Woodlands (Mountain Longleaf) (DMHPW(L) EIA datasheet Open Pine (metrics)

Plot ID: Date:

Contiguous Natural Land Cover		Rating Points	LAN1
Intact: Embedded in 90-100% natural habitat around Assessment Area.	4	Raw Value:	<input type="text"/>
Variiegated: Embedded in 60-<90% natural habitat.	3		<input type="text"/>
Fragmented: Embedded in 20-<60% natural habitat.	2	Rating	<input type="text"/>
Relictual: Embedded in <20% natural habitat.	1	(1-4):	<input type="text"/>
Land Use Index		Rating Points	LAN2
Average Land Use Score = 9.5-10	4	Raw Value:	<input type="text"/>
Average Land Use Score = 8.0-9.4	3		<input type="text"/>
Average Land Use Score = 4.0-7.9	2	Rating	<input type="text"/>
Average Land Use Score < 4.0	1	(1-4):	<input type="text"/>
Perimeter with Natural Buffer		Rating Points	BUF1
Natural buffer is 100% of perimeter	4	Raw Value:	<input type="text"/>
Buffer is 75-99% of perimeter	3		<input type="text"/>
Buffer is 25-<75% of perimeter	2	Rating	<input type="text"/>
Buffer is <25% of perimeter	1	(1-4):	<input type="text"/>

Dry & Mesic Hilly Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Event details

Site Name: Team:
 GPS Unit:

Datum: Ecological System:
 Latitude: decimal degrees
 Longitude: decimal degrees
 PDOP:
 Number of Satellites:

Directions to plot:
 Assessment Area/Site Description:

Consider for EO (check box)? EO Comments:

Basal Area of Southern Yellow Pine Canopy Trees		Dry & Mesic Hilly Pine Woodlands		Rating Points
30-85 ft ² /acre basal area of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)				4
20 to <30 or >85 to 100 ft ² /acre basal area of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)				3
10 to <20 or >100 to 115 ft ² /acre basal area of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)				2
<10 or >115 ft ² /acre basal area of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)				1
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Raw Value:
 Rating (1-4):

Southern Yellow Pine Stand Age Structure (14" cutoff)		Dry & Mesic Hilly Pine Woodlands		Rating Points
Basal area ≥20 ft ² /acre of loblolly pine and/or shortleaf pine trees ≥14" DBH class				4
Basal area ≥10 ft ² /acre of loblolly pine and/or shortleaf pine trees ≥14" DBH class				3
Loblolly pine and/or shortleaf pine trees ≥14" DBH class are present, but <10 ft ² /acre basal area of those large trees				2
No loblolly pine and/or shortleaf pine trees ≥14" DBH are present				1
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Raw Value:
 Rating (1-4):

Southern Yellow Pine Stand Age Structure (12" cutoff)		Dry & Mesic Hilly Pine Woodlands		Rating Points
Basal area ≥20 ft ² /acre of loblolly pine and/or shortleaf pine trees ≥12" DBH class				4
Basal area ≥10 ft ² /acre of loblolly pine and/or shortleaf pine trees ≥12" DBH class				3
Loblolly pine and/or shortleaf pine trees ≥12" DBH class are present, but <10 ft ² /acre basal area of those large trees				2
No loblolly pine and/or shortleaf pine trees ≥12" DBH are present				1
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Raw Value:
 Rating (1-4):

Canopy Hardwood Basal Area		Dry & Mesic Hilly Pine Woodlands		Rating Points
≤20 ft ² /acre basal area of hardwood trees				4
>20 to 30 ft ² /acre basal area of hardwood trees				3
>30 to 50 ft ² /acre basal area of hardwood trees				2
>50 ft ² /acre basal area of hardwood trees				1
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Raw Value:
 Rating (1-4):

Dry & Mesic Hilly Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Canopy Hardwood Basal Area - Fire-Intolerant		<i>Dry & Mesic Hilly Pine Woodlands</i>		Rating Points
≤10 ft ² /acre basal area of fire intolerant hardwood trees			4	Raw Value: <input type="text"/>
>10 to 20 ft ² /acre basal area of fire intolerant hardwood trees			3	<input type="text"/>
>20 to 30 ft ² /acre basal area of fire intolerant hardwood trees			2	Rating (1-4): <input type="text"/>
>30 ft ² /acre basal area of fire intolerant hardwood trees			1	<input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Canopy Cover		<i>Dry & Mesic Hilly Pine Woodlands</i>		Rating Points
>25 to 75% canopy cover of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)			4	Raw Value: <input type="text"/>
>15 to 25% canopy cover or >75 to 85% canopy cover of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)			3	<input type="text"/>
10-15% canopy cover or >85 to 95% canopy cover of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)			2	Rating (1-4): <input type="text"/>
<10% canopy cover or >95% canopy cover of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)			1	<input type="text"/>

Stand Density Index		<i>Dry & Mesic Hilly Pine Woodlands</i>		Rating Points
SDI = 55 – 155 (12-34% of Maximum SDI of 450)			4	Raw Value: <input type="text"/>
SDI = 35 – 55 or 155 -205 (8-12% or 34-45% of Maximum SDI of 450, 35 – 40% SDI is near maximum of stand growth)			3	<input type="text"/>
SDI = 20 – 35 or 205 - 225 (4-8% or 45-50% of Maximum SDI, 270 is 60% of Maximum SD of 450, which is the onset of self-thinning)			2	Rating (1-4): <input type="text"/>
SDI <20 or >225 (<4% or > 50%, 270 is 60% of Maximum SD of 450, the onset of self-thinning)			1	<input type="text"/>

list of DBHs

Canopy Overall Ecological Assessment

comments

Dry & Mesic Hilly Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Midstory Fire-Tolerant Hardwood Cover *Dry & Mesic Hilly Pine Woodlands* **Rating Points**

2 to 10% cover of midstory fire-tolerant hardwoods	4	Raw Value: <input type="text"/>
10 to 20%, or <2% cover of midstory fire-tolerant hardwoods	3	<input type="text"/>
>20 to 35% cover of midstory fire-tolerant hardwoods	2	Rating <input type="text"/>
>35% cover of midstory fire-tolerant hardwoods	1	(1-4): <input type="text"/>

Midstory Fire-Intolerant Hardwood Cover *Dry & Mesic Hilly Pine Woodlands* **Rating Points**

<10% cover of fire-intolerant hardwood midstory	4	Raw Value: <input type="text"/>
≥10 to 20% cover of fire-intolerant hardwood midstory	3	<input type="text"/>
>20 to 30% cover of fire-intolerant hardwood midstory	2	Rating <input type="text"/>
>30% cover of fire-intolerant hardwood midstory	1	(1-4): <input type="text"/>

Midstory Overall Woody Cover *Dry & Mesic Hilly Pine Woodlands* **Rating Points**

2 to <20% cover of woody midstory	4	Raw Value: <input type="text"/>
≥20 to 30%, or <2% cover of woody midstory	3	<input type="text"/>
>30 to 50% cover of woody midstory	2	Rating <input type="text"/>
>50% cover of woody midstory	1	(1-4): <input type="text"/>

Midstory Overall Ecological Assessment

comments

Dry & Mesic Hilly Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Tall Shrub (3-10 feet tall) Cover		<i>Dry & Mesic Hilly Pine Woodlands</i>	Rating Points
Shrubs 3-10 feet in height average <15% cover.	4	Raw Value:	<input type="text"/>
Shrubs 3-10 feet in height average 15 to 20% cover.	3		<input type="text"/>
Shrubs 3-10 feet in height average >20 to 30% cover.	2	Rating	<input type="text"/>
Shrubs 3-10 feet in height average >30% cover.	1	(1-4):	<input type="text"/>

Short Shrub (<3 feet tall) Cover		<i>Dry & Mesic Hilly Pine Woodlands</i>	Rating Points
Shrubs < 3 feet in height average <20% cover in the assessment area	4	Raw Value:	<input type="text"/>
Shrubs < 3 feet in height average 20 to 30% cover in the assessment area	3		<input type="text"/>
Shrubs < 3 feet in height average >30 to 45% cover in the assessment area	2	Rating	<input type="text"/>
Shrubs < 3 feet in height average >45% cover in the assessment area	1	(1-4):	<input type="text"/>

Longleaf Pine Regeneration		<i>Rapid Assessment Location</i>	Rating Points
Longleaf pine regeneration (<2" DBH) cover is ≥1% at rapid assessment location	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is <1% at rapid assessment location	3		<input type="text"/>
No Longleaf pine regeneration (<2" DBH) cover seen, but cone-producing longleaf pine or longleaf pine >10" DBH are present rapid assessment location	2	Rating	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is apparently absent, and no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present at the rapid assessment location	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Longleaf Pine Regeneration		<i>Stand Level</i>	Rating Points
Longleaf pine regeneration is present in patches across the stand, these patches are 5-15 % of the stand (about 1/20 to 1/6 of the stand)	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration is present in patches across the stand, these patches are 1-5 % of the stand or >15% of the stand (less than 1/20 or more than 1/6 of the stand)	3		<input type="text"/>
Longleaf pine regeneration is very sparse across stand, patches of longleaf pine regeneration are <1% of stand, or cone-producing longleaf pine or longleaf pine >10" DBH are present	2	Rating	<input type="text"/>
Longleaf pine regeneration is apparently absent in stand, and apparently no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present in the stand	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Shrub Overall Ecological Assessment

comments

Dry & Mesic Hilly Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Overall Native Herbaceous Ground Cover *Dry & Mesic Hilly Pine Woodlands* **Rating Points**

35-80% herbaceous cover	4	Raw Value: <input type="text"/>
20 to <35% or >80% herbaceous cover	3	<input type="text"/>
10 to <20% herbaceous cover	2	Rating <input type="text"/>
<10% herbaceous cover	1	(1-4): <input type="text"/>

Native Warm Season Grass Cover *Dry & Mesic Hilly Pine Woodlands* **Rating Points**

25- 100% cover of all native warm season grasses	4	Raw Value: <input type="text"/>
>15 to <25% cover of all native warm season grasses	3	<input type="text"/>
10-15% cover of all native warm season grasses	2	Rating <input type="text"/>
<10% cover of all native warm season grasses	1	(1-4): <input type="text"/>

Invasive Plant Presence/Distribution **Rating Points**

Invasive nonnative plant species absent	4	Raw Value: <input type="text"/>
Invasive nonnative plant species present in any stratum but sporadic (<5% cover)	3	<input type="text"/>
Invasive nonnative plant species in any stratum uncommon (5-10% cover)	2	Rating <input type="text"/>
Invasive nonnative plant species in any stratum common (>10% cover)	1	(1-4): <input type="text"/>

Herbaceous Indicators of Soil Disturbance **Rating Points**

Total cover for herbaceous indicators of soil disturbance <2%	4	Raw Value: <input type="text"/>
Total cover for herbaceous indicators of soil disturbance 2-5%	3	<input type="text"/>
Total cover for herbaceous indicators of soil disturbance >5-10%	2	Rating <input type="text"/>
Total cover for herbaceous indicators of soil disturbance >10%	1	(1-4): <input type="text"/>

Groundcover Overall Ecological Assessment

comments

Dry & Mesic Hilly Pine Woodlands (DMHPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Contiguous Natural Land Cover		Rating Points	LAN1
Intact: Embedded in 90-100% natural habitat around Assessment Area.	4	Raw Value:	<input type="text"/>
Variiegated: Embedded in 60-<90% natural habitat.	3		<input type="text"/>
Fragmented: Embedded in 20-<60% natural habitat.	2	Rating	<input type="text"/>
Relictual: Embedded in <20% natural habitat.	1	(1-4):	<input type="text"/>
Land Use Index		Rating Points	LAN2
Average Land Use Score = 9.5-10	4	Raw Value:	<input type="text"/>
Average Land Use Score = 8.0-9.4	3		<input type="text"/>
Average Land Use Score = 4.0-7.9	2	Rating	<input type="text"/>
Average Land Use Score < 4.0	1	(1-4):	<input type="text"/>
Perimeter with Natural Buffer		Rating Points	BUF1
Natural buffer is 100% of perimeter	4	Raw Value:	<input type="text"/>
Buffer is 75-99% of perimeter	3		<input type="text"/>
Buffer is 25-<75% of perimeter	2	Rating	<input type="text"/>
Buffer is <25% of perimeter	1	(1-4):	<input type="text"/>

Dry & Mesic Longleaf Pine Woodlands (DMLPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Event details

Site Name:	<input type="text"/>	Team:	<input type="text"/>	
GPS Unit:	<input type="text"/>	Ecological System: <input type="text"/>		
Datum:	<input type="text"/>			
Latitude:	<input type="text"/>			decimal degrees decimal degrees
Longitude:	<input type="text"/>			
PDOP:	<input type="text"/>			
Number of Satellites:	<input type="text"/>			

Directions to plot:

Assessment Area/Site Description:

Consider for EO (check box)? EO Comments:

Basal Area of Southern Yellow Pine Canopy Trees		<i>Dry & Mesic Longleaf Pine Woodlands</i> Rating Points	
30-80 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>)	4	Raw Value:	<input type="text"/>
20 to <30 or >80 to 90 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>)	3	Rating (1-4):	<input type="text"/>
10 to <20 or >90 to 105 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>)	2		
<10 or >105 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>)	1		
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Stand Age Structure (14" cutoff)		<i>Dry & Mesic Longleaf Pine Woodlands</i> Rating Points	
Basal area ≥20 ft ² /acre of longleaf pine trees ≥14" DBH class or flat-top longleaf pine is present	4	Raw Value:	<input type="text"/>
Basal area ≥10 ft ² /acre of longleaf pine trees ≥14" DBH class. No flat-top longleaf pine is present.	3	Rating (1-4):	<input type="text"/>
Longleaf pine trees ≥14" DBH class are present, but <10 ft ² /acre basal area of those large trees. No flat-top longleaf pine is present.	2		
No longleaf pine trees ≥14" DBH nor flat-top longleaf pine are present	1		
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>
			flat-top pine present <input type="checkbox"/>

Southern Yellow Pine Stand Age Structure (12" cutoff)		<i>Dry & Mesic Longleaf Pine Woodlands</i> Rating Points	
Basal area ≥20 ft ² /acre of longleaf pine trees ≥12" DBH class or flat-top longleaf pine is present	4	Raw Value:	<input type="text"/>
Basal area ≥10 ft ² /acre of longleaf pine trees ≥12" DBH class. No flat-top longleaf pine is present.	3	Rating (1-4):	<input type="text"/>
Longleaf pine trees ≥12" DBH class are present, but <10 ft ² /acre basal area of those large trees. No flat-top longleaf pine is present.	2		
No longleaf pine trees ≥12" DBH nor flat-top longleaf pine are present	1		
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>
			flat-top pine present <input type="checkbox"/>

Dry & Mesic Longleaf Pine Woodlands (DMLPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Canopy Hardwood Basal Area		<i>Dry & Mesic Longleaf Pine Woodlands</i> Rating Points	
≤5 ft ² /acre basal area of hardwood trees	4	Raw Value:	<input type="text"/>
>5 to 15 ft ² /acre basal area of hardwood trees	3		<input type="text"/>
>15 to 25 ft ² /acre basal area of hardwood trees	2	Rating	<input type="text"/>
>25 ft ² /acre basal area of hardwood trees	1	(1-4):	<input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>

Canopy Hardwood Basal Area - Fire-Intolerant		<i>Dry & Mesic Longleaf Pine Woodlands</i> Rating Points	
≤5 ft ² /acre basal area of fire intolerant hardwood trees	4	Raw Value:	<input type="text"/>
>5 to 10 ft ² /acre basal area of fire intolerant hardwood trees	3		<input type="text"/>
>10 to 20 ft ² /acre basal area of fire intolerant hardwood trees	2	Rating	<input type="text"/>
>20 ft ² /acre basal area of fire intolerant hardwood trees	1	(1-4):	<input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Canopy Cover		<i>Dry & Mesic Longleaf Pine Woodlands</i> Rating Points	
30-65% canopy cover of longleaf pine (<i>Pinus palustris</i>)	4	Raw Value:	<input type="text"/>
>20 to <30% canopy cover or >65 to 75% canopy cover of longleaf pine (<i>Pinus palustris</i>)	3		<input type="text"/>
10-20% canopy cover or >75 to 85% canopy cover of longleaf pine (<i>Pinus palustris</i>)	2	Rating	<input type="text"/>
<10% cover or >85% canopy cover of longleaf pine (<i>Pinus palustris</i>)	1	(1-4):	<input type="text"/>

Stand Density Index		<i>Dry & Mesic Longleaf Pine Woodlands</i> Rating Points	
SDI = 60 – 125 (15 - 31% of Maximum SDI of 400)	4	Raw Value:	<input type="text"/>
SDI = 40 – 60 or 125 -160 (10-15% or 31-40% of Maximum SDI of 400, 35 – 40% SDI is near maximum of stand growth)	3		<input type="text"/>
SDI = 20 – 40 or 160 - 200 (5-10% or 40-50% of Maximum SDI, 240 is 60% of Maximum SD of 400, which is the onset of self-thinning)	2	Rating	<input type="text"/>
SDI <20 or >200 (<5% or > 50%, 240 is 60% of Maximum SD of 400, the onset of self-thinning)	1	(1-4):	<input type="text"/>

list of DBHs

Canopy Overall Ecological Assessment

comments

Dry & Mesic Longleaf Pine Woodlands (DMLPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Midstory Fire-Tolerant Hardwood Cover *Dry & Mesic Longleaf Pine Woodlands* **Rating Points**

2 to 15% cover of midstory fire-tolerant hardwoods	4	Raw Value:
15 to <20%, or <2% cover of midstory fire-tolerant hardwoods	3	<input type="text"/>
20 to 25% cover of midstory fire-tolerant hardwoods	2	Rating
>25% cover of midstory fire-tolerant hardwoods	1	(1-4): <input type="text"/>

Midstory Fire-Intolerant Hardwood Cover *Dry & Mesic Longleaf Pine Woodlands* **Rating Points**

<5% cover of fire-intolerant hardwood midstory	4	Raw Value:
5 to 10% cover of fire-intolerant hardwood midstory	3	<input type="text"/>
>10 to 20% cover of fire-intolerant hardwood midstory	2	Rating
>20% cover of fire-intolerant hardwood midstory	1	(1-4): <input type="text"/>

Midstory Overall Woody Cover *Dry & Mesic Longleaf Pine Woodlands* **Rating Points**

2 to <15% cover of woody midstory	4	Raw Value:
15 – 25%, or <2% cover of woody midstory	3	<input type="text"/>
>25 to 35% cover of woody midstory	2	Rating
>35% cover of woody midstory	1	(1-4): <input type="text"/>

Midstory Overall Ecological Assessment

comments

Dry & Mesic Longleaf Pine Woodlands (DMLPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Tall Shrub (3-10 feet tall) Cover		<i>Dry & Mesic Longleaf Pine Woodlands</i>	Rating Points
Shrubs 3-10 feet in height average <10% cover.	4	Raw Value:	<input type="text"/>
Shrubs 3-10 feet in height average 10 to 20% cover.	3		<input type="text"/>
Shrubs 3-10 feet in height average >20 to 30% cover.	2	Rating	<input type="text"/>
Shrubs 3-10 feet in height average >30% cover.	1	(1-4):	<input type="text"/>

Short Shrub (<3 feet tall) Cover		<i>Dry & Mesic Longleaf Pine Woodlands</i>	Rating Points
Shrubs < 3 feet in height average <30% cover in the assessment area	4	Raw Value:	<input type="text"/>
Shrubs < 3 feet in height average 30 to 35% cover in the assessment area	3		<input type="text"/>
Shrubs < 3 feet in height average >35 to 45% cover in the assessment area	2	Rating	<input type="text"/>
Shrubs < 3 feet in height average >45% cover in the assessment area	1	(1-4):	<input type="text"/>

Longleaf Pine Regeneration		<i>Rapid Assessment Location</i>	Rating Points
Longleaf pine regeneration (<2" DBH) cover is ≥1% at rapid assessment location	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is <1% at rapid assessment location	3		<input type="text"/>
No Longleaf pine regeneration (<2" DBH) cover seen, but cone-producing longleaf pine or longleaf pine >10" DBH are present rapid assessment location	2	Rating	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is apparently absent, and no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present at the rapid assessment location	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Longleaf Pine Regeneration		<i>Stand Level</i>	Rating Points
Longleaf pine regeneration is present in patches across the stand, these patches are 5-15 % of the stand (about 1/20 to 1/6 of the stand)	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration is present in patches across the stand, these patches are 1-5 % of the stand or >15% of the stand (less than 1/20 or more than 1/6 of the stand)	3		<input type="text"/>
Longleaf pine regeneration is very sparse across stand, patches of longleaf pine regeneration are <1% of stand, or cone-producing longleaf pine or longleaf pine >10" DBH are present	2	Rating	<input type="text"/>
Longleaf pine regeneration is apparently absent in stand, and apparently no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present in the stand	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Shrub Overall Ecological Assessment

comments

Dry & Mesic Longleaf Pine Woodlands (DMLPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Overall Native Herbaceous Ground Cover		<i>Dry & Mesic Longleaf Pine Woodlands</i>	Rating Points
40-98% herbaceous cover		4	Raw Value: <input type="text"/>
30 to <40% or >98% herbaceous cover		3	<input type="text"/>
20 to <30% herbaceous cover		2	Rating (1-4): <input type="text"/>
<20% herbaceous cover		1	<input type="text"/>

Native Warm Season Grass Cover		<i>Dry & Mesic Longleaf Pine Woodlands</i>	Rating Points
>25 to 97% cover of all native warm season grasses		4	Raw Value: <input type="text"/>
>15 to 25% or >97% cover of all native warm season grasses		3	<input type="text"/>
10-15% cover of all native warm season grasses		2	Rating (1-4): <input type="text"/>
<10% cover of all native warm season grasses		1	<input type="text"/>

Native Wiry Graminoid Cover		<i>Dry & Mesic Longleaf Pine Woodlands</i>	Rating Points
20-95% cover of all wiry graminoids		4	Raw Value: <input type="text"/>
10 to <20% or >95% cover of all wiry graminoids		3	<input type="text"/>
2 to <10% cover of all wiry graminoids		2	Rating (1-4): <input type="text"/>
<2% cover of all wiry graminoids		1	<input type="text"/>

Invasive Plant Presence/Distribution			Rating Points
Invasive nonnative plant species absent		4	Raw Value: <input type="text"/>
Invasive nonnative plant species present in any stratum but sporadic (<5% cover)		3	<input type="text"/>
Invasive nonnative plant species in any stratum uncommon (5-10% cover)		2	Rating (1-4): <input type="text"/>
Invasive nonnative plant species in any stratum common (>10% cover)		1	<input type="text"/>

Herbaceous Indicators of Soil Disturbance			Rating Points
Total cover for herbaceous indicators of soil disturbance <2%		4	Raw Value: <input type="text"/>
Total cover for herbaceous indicators of soil disturbance 2-5%		3	<input type="text"/>
Total cover for herbaceous indicators of soil disturbance >5-10%		2	Rating (1-4): <input type="text"/>
Total cover for herbaceous indicators of soil disturbance >10%		1	<input type="text"/>

Groundcover Overall Ecological Assessment

comments

Dry & Mesic Longleaf Pine Woodlands (DMLPW) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Contiguous Natural Land Cover		Rating Points	LAN1
Intact: Embedded in 90-100% natural habitat around Assessment Area.	4	Raw Value:	<input type="text"/>
Variiegated: Embedded in 60-<90% natural habitat.	3		<input type="text"/>
Fragmented: Embedded in 20-<60% natural habitat.	2	Rating	<input type="text"/>
Relictual: Embedded in <20% natural habitat.	1	(1-4):	<input type="text"/>
Land Use Index		Rating Points	LAN2
Average Land Use Score = 9.5-10	4	Raw Value:	<input type="text"/>
Average Land Use Score = 8.0-9.4	3		<input type="text"/>
Average Land Use Score = 4.0-7.9	2	Rating	<input type="text"/>
Average Land Use Score < 4.0	1	(1-4):	<input type="text"/>
Perimeter with Natural Buffer		Rating Points	BUF1
Natural buffer is 100% of perimeter	4	Raw Value:	<input type="text"/>
Buffer is 75-99% of perimeter	3		<input type="text"/>
Buffer is 25-<75% of perimeter	2	Rating	<input type="text"/>
Buffer is <25% of perimeter	1	(1-4):	<input type="text"/>

Mesic Longleaf Pine Flatwoods (MLPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Event details

Site Name: Team:

GPS Unit:

Datum:

Latitude: decimal degrees

Longitude: decimal degrees

PDOP:

Number of Satellites:

Ecological System:

Assessment Area/Site Description:

Directions to plot:

Consider for EO (check box)? EO Comments:

Basal Area of Southern Yellow Pine Canopy Trees *Mesic Longleaf Pine Flatwoods* **Rating Points**

30-80 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)	4	Raw Value: <input type="text"/>
20 to <30 or >80 to 90 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)	3	Rating (1-4): <input type="text"/>
10 to <20 or >90 to 105 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)	2	
<10 or >105 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)	1	

readings

Southern Yellow Pine Stand Age Structure (14" cutoff) *Mesic Longleaf Pine Flatwoods* **Rating Points**

Basal area ≥20 ft ² /acre of longleaf pine, slash pine or South Florida slash pine trees ≥14" DBH class or flat-top longleaf pine or South Florida slash pine is present	4	Raw Value: <input type="text"/>
Basal area ≥10 ft ² /acre of longleaf pine or South Florida slash pine trees ≥14" DBH class. No flat-top longleaf pine present.	3	Rating (1-4): <input type="text"/>
Longleaf pine or South Florida slash pine trees ≥14" DBH class are present, but <10 ft ² /acre basal area of those large trees. No flat-top longleaf pine present.	2	
No longleaf pine or South Florida slash pine trees ≥14" DBH nor flat-top longleaf pine or South Florida slash pine are present	1	

readings

flat-top pine present

Mesic Longleaf Pine Flatwoods (MLPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Southern Yellow Pine Stand Age Structure (12" cutoff)		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
Basal area ≥20 ft ² /acre of longleaf pine, slash pine or South Florida slash pine trees ≥12" DBH class or flat-top longleaf pine or South Florida slash pine is present	4	Raw Value:	<input type="text"/>
Basal area ≥10 ft ² /acre of longleaf pine or South Florida slash pine trees ≥12" DBH class. No flat-top longleaf pine present.	3	Rating (1-4):	<input type="text"/>
Longleaf pine or South Florida slash pine trees ≥12" DBH class are present, but <10 ft ² /acre basal area of those large trees. No flat-top longleaf pine present.	2		
No longleaf pine or South Florida slash pine trees ≥12" DBH nor flat-top longleaf pine or South Florida slash pine are present	1		
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
			flat-top pine present <input type="checkbox"/>

Canopy Hardwood Basal Area		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
≤5 ft ² /acre basal area of hardwood trees	4	Raw Value:	<input type="text"/>
>5 to 15 ft ² /acre basal area of hardwood trees	3	Rating (1-4):	<input type="text"/>
>15 to 25 ft ² /acre basal area of hardwood trees	2		
>25 ft ² /acre basal area of hardwood trees	1		
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>

Canopy Hardwood Basal Area - Fire-Intolerant		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
≤5 ft ² /acre basal area of fire intolerant hardwood trees	4	Raw Value:	<input type="text"/>
>5 to 10 ft ² /acre basal area of fire intolerant hardwood trees	3	Rating (1-4):	<input type="text"/>
>10 to 20 ft ² /acre basal area of fire intolerant hardwood trees	2		
>20 ft ² /acre basal area of fire intolerant hardwood trees	1		
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Canopy Cover		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
30 to 65% canopy cover of longleaf pine (Pinus palustris), slash pine (Pinus elliottii), and/or South Florida slash pine (Pinus elliottii var. densa)	4	Raw Value:	<input type="text"/>
20 to <30% canopy cover or >65 to 75% canopy cover of longleaf pine (Pinus palustris), slash pine (Pinus elliottii), and/or South Florida slash pine (Pinus elliottii var. densa)	3	Rating (1-4):	<input type="text"/>
10 to <20% canopy cover or >75 to 85% canopy cover of longleaf pine (Pinus palustris), slash pine (Pinus elliottii), and/or South Florida slash pine (Pinus elliottii var. densa)	2		
<10% canopy cover or >85% canopy cover of longleaf pine (Pinus palustris), slash pine (Pinus elliottii), and/or South Florida slash pine (Pinus elliottii var. densa)	1		

Stand Density Index		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
SDI = 60 – 125 (15-31% of Maximum SDI of 400)	4	Raw Value:	<input type="text"/>
SDI = 40 – 60 or 125 -160 (10-15% or 31-40% of Maximum SDI of 400, 35 – 40% SDI is near maximum of stand growth)	3	Rating (1-4):	<input type="text"/>
SDI = 20 – 40 or 160 - 190 (5-10% or 40-48% of Maximum SDI, 240 is 60% of Maximum SD of 400, which is the onset of self-thinning)	2		
SDI <20 or >190 (<5% or > 48%, 240 is 60% of Maximum SD of 400, the onset of self-thinning)	1		
list of DBHs	<input type="text"/>		

Mesic Longleaf Pine Flatwoods (MLPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID:

Date:

Canopy Overall Ecological Assessment

comments

Mesic Longleaf Pine Flatwoods (MLPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID:

Date:

Midstory Fire-Tolerant Hardwood Cover		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
2 to 10% cover of midstory fire-tolerant hardwoods	4	Raw Value:	<input type="text"/>
10 to 20%, or <2% cover of midstory fire-tolerant hardwoods	3		<input type="text"/>
>20 to 25% cover of midstory fire-tolerant hardwoods	2	Rating	<input type="text"/>
>25% cover of midstory fire-tolerant hardwoods	1	(1-4):	<input type="text"/>

Midstory Fire-Intolerant Hardwood Cover		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
<5% cover of fire-intolerant hardwood midstory	4	Raw Value:	<input type="text"/>
5 to 10% cover of fire-intolerant hardwood midstory	3		<input type="text"/>
>10 to 20% cover of fire-intolerant hardwood midstory	2	Rating	<input type="text"/>
>20% cover of fire-intolerant hardwood midstory	1	(1-4):	<input type="text"/>

Midstory Overall Woody Cover		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
2 to <10% cover of woody midstory	4	Raw Value:	<input type="text"/>
10 – 15%, or <2% cover of woody midstory	3		<input type="text"/>
>15 to 30% cover of woody midstory	2	Rating	<input type="text"/>
>30% cover of woody midstory	1	(1-4):	<input type="text"/>

Midstory Overall Ecological Assessment

comments

Mesic Longleaf Pine Flatwoods (MLPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Tall Shrub (3-10 feet tall) Cover		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
Shrubs 3-10 feet in height average <5% cover.	4	Raw Value:	<input type="text"/>
Shrubs 3-10 feet in height average 5 to <15% cover.	3		<input type="text"/>
Shrubs 3-10 feet in height average 15 to 25% cover.	2	Rating	<input type="text"/>
Shrubs 3-10 feet in height average >25% cover.	1	(1-4):	<input type="text"/>

Short Shrub (<3 feet tall) Cover		<i>Mesic Longleaf Pine Flatwoods</i>	Rating Points
Shrubs < 3 feet in height average <30% cover in the assessment area	4	Raw Value:	<input type="text"/>
Shrubs < 3 feet in height average 30 to <40% cover in the assessment area	3		<input type="text"/>
Shrubs < 3 feet in height average 40 to 45% cover in the assessment area	2	Rating	<input type="text"/>
Shrubs < 3 feet in height average >45% cover in the assessment area	1	(1-4):	<input type="text"/>

Longleaf Pine Regeneration		<i>Rapid Assessment Location</i>	Rating Points
Longleaf pine regeneration (<2" DBH) cover is ≥1% at rapid assessment location	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is <1% at rapid assessment location	3		<input type="text"/>
No Longleaf pine regeneration (<2" DBH) cover seen, but cone-producing longleaf pine or longleaf pine >10" DBH are present rapid assessment location	2	Rating	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is apparently absent, and no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present at the rapid assessment location	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Longleaf Pine Regeneration		<i>Stand Level</i>	Rating Points
Longleaf pine regeneration is present in patches across the stand, these patches are 5-15 % of the stand (about 1/20 to 1/6 of the stand)	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration is present in patches across the stand, these patches are 1-5 % of the stand or >15% of the stand (less than 1/20 or more than 1/6 of the stand)	3		<input type="text"/>
Longleaf pine regeneration is very sparse across stand, patches of longleaf pine regeneration are <1% of stand, or cone-producing longleaf pine or longleaf pine >10" DBH are present	2	Rating	<input type="text"/>
Longleaf pine regeneration is apparently absent in stand, and apparently no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present in the stand	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Shrub Overall Ecological Assessment

comments

Mesic Longleaf Pine Flatwoods (MLPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Overall Native Herbaceous Ground Cover *Mesic Longleaf Pine Flatwoods* **Rating Points**

40-98% herbaceous cover	4	Raw Value: <input type="text"/>
30 to <40% or >98% herbaceous cover	3	<input type="text"/>
20 to <30% herbaceous cover	2	Rating <input type="text"/>
<20% herbaceous cover	1	(1-4): <input type="text"/>

Native Warm Season Grass Cover *Mesic Longleaf Pine Flatwoods* **Rating Points**

>25 to 97% cover of all native warm season grasses	4	Raw Value: <input type="text"/>
>15 to 25% or >97% cover of all native warm season grasses	3	<input type="text"/>
10-15% cover of all native warm season grasses	2	Rating <input type="text"/>
<10% cover of all native warm season grasses	1	(1-4): <input type="text"/>

Native Wiry Graminoid Cover *Mesic Longleaf Pine Flatwoods* **Rating Points**

20-95% cover of all wiry graminoids	4	Raw Value: <input type="text"/>
10 to <20% or >95% cover of all wiry graminoids	3	<input type="text"/>
2 to <10% cover of all wiry graminoids	2	Rating <input type="text"/>
<2% cover of all wiry graminoids	1	(1-4): <input type="text"/>

Invasive Plant Presence/Distribution **Rating Points**

Invasive nonnative plant species absent	4	Raw Value: <input type="text"/>
Invasive nonnative plant species present in any stratum but sporadic (<5% cover)	3	<input type="text"/>
Invasive nonnative plant species in any stratum uncommon (5-10% cover)	2	Rating <input type="text"/>
Invasive nonnative plant species in any stratum common (>10% cover)	1	(1-4): <input type="text"/>

Herbaceous Indicators of Soil Disturbance **Rating Points**

Total cover for herbaceous indicators of soil disturbance <2%	4	Raw Value: <input type="text"/>
Total cover for herbaceous indicators of soil disturbance 2-5%	3	<input type="text"/>
Total cover for herbaceous indicators of soil disturbance >5-10%	2	Rating <input type="text"/>
Total cover for herbaceous indicators of soil disturbance >10%	1	(1-4): <input type="text"/>

Groundcover Overall Ecological Assessment

comments

Mesic Longleaf Pine Flatwoods (MLPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Contiguous Natural Land Cover		Rating Points	LAN1
Intact: Embedded in 90-100% natural habitat around Assessment Area.	4	Raw Value:	<input type="text"/>
Variiegated: Embedded in 60-<90% natural habitat.	3		<input type="text"/>
Fragmented: Embedded in 20-<60% natural habitat.	2	Rating	<input type="text"/>
Relictual: Embedded in <20% natural habitat.	1	(1-4):	<input type="text"/>
Land Use Index		Rating Points	LAN2
Average Land Use Score = 9.5-10	4	Raw Value:	<input type="text"/>
Average Land Use Score = 8.0-9.4	3		<input type="text"/>
Average Land Use Score = 4.0-7.9	2	Rating	<input type="text"/>
Average Land Use Score < 4.0	1	(1-4):	<input type="text"/>
Perimeter with Natural Buffer		Rating Points	BUF1
Natural buffer is 100% of perimeter	4	Raw Value:	<input type="text"/>
Buffer is 75-99% of perimeter	3		<input type="text"/>
Buffer is 25-<75% of perimeter	2	Rating	<input type="text"/>
Buffer is <25% of perimeter	1	(1-4):	<input type="text"/>

Upper Coastal Plain Pine Flatwoods (UCPPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Event details

Site Name: Team:

GPS Unit:

Datum:

Latitude: decimal degrees

Longitude: decimal degrees

PDOP:

Number of Satellites:

Ecological System:

Assessment Area/Site Description:

Directions to plot:

Consider for EO (check box)?

EO Comments:

Basal Area of Southern Yellow Pine Canopy Trees *Upper Coastal Plain Pine Flatwoods* Rating Points

30-80 ft ² /acre basal area of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)	4	Raw Value: <input type="text"/>
20 to <30 or >80 to 90 ft ² /acre basal area of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)	3	<input type="text"/>
10 to <20 or >90 to 110 ft ² /acre basal area of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)	2	Rating <input type="text"/>
<10 or >110 ft ² /acre basal area of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)	1	(1-4): <input type="text"/>

readings

Southern Yellow Pine Stand Age Structure (14" cutoff) *Upper Coastal Plain Pine Flatwoods* Rating Points

Basal area ≥20 ft ² /acre of loblolly pine and/or shortleaf pine trees ≥14" DBH class	4	Raw Value: <input type="text"/>
Basal area ≥10 ft ² /acre of loblolly pine and/or shortleaf pine trees ≥14" DBH class	3	<input type="text"/>
Loblolly pine and/or shortleaf pine trees ≥14" DBH class are present, but <10 ft ² /acre basal area of those large trees	2	Rating <input type="text"/>
No loblolly pine and/or shortleaf pine trees ≥14" DBH are present	1	(1-4): <input type="text"/>

readings

Southern Yellow Pine Stand Age Structure (12" cutoff) *Upper Coastal Plain Pine Flatwoods* Rating Points

Basal area ≥20 ft ² /acre of loblolly pine and/or shortleaf pine trees ≥12" DBH class	4	Raw Value: <input type="text"/>
Basal area ≥10 ft ² /acre of loblolly pine and/or shortleaf pine trees ≥12" DBH class	3	<input type="text"/>
Loblolly pine and/or shortleaf pine trees ≥12" DBH class are present, but <10 ft ² /acre basal area of those large trees	2	Rating <input type="text"/>
No loblolly pine and/or shortleaf pine trees ≥12" DBH are present	1	(1-4): <input type="text"/>

readings

Canopy Hardwood Basal Area *Upper Coastal Plain Pine Flatwoods* Rating Points

≤20 ft ² /acre basal area of hardwood trees	4	Raw Value: <input type="text"/>
>20 to 30 ft ² /acre basal area of hardwood trees	3	<input type="text"/>
>30 to 50 ft ² /acre basal area of hardwood trees	2	Rating <input type="text"/>
>50 ft ² /acre basal area of hardwood trees	1	(1-4): <input type="text"/>

readings

Upper Coastal Plain Pine Flatwoods (UCPPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Canopy Hardwood Basal Area - Fire-Intolerant		<i>Upper Coastal Plain Pine Flatwoods</i>	Rating Points
≤10 ft ² /acre basal area of fire intolerant hardwood trees	4		Raw Value: <input type="text"/>
>10 to 20 ft ² /acre basal area of fire intolerant hardwood trees	3		<input type="text"/>
>20 to 30 ft ² /acre basal area of fire intolerant hardwood trees	2		Rating (1-4): <input type="text"/>
>30 ft ² /acre basal area of fire intolerant hardwood trees	1		<input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Canopy Cover		<i>Upper Coastal Plain Pine Flatwoods</i>	Rating Points
>25 to 70% canopy cover of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)	4		Raw Value: <input type="text"/>
>15 to 25% canopy cover or >70 to 80% canopy cover of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)	3		<input type="text"/>
10 to 15% canopy cover or >80 to 90% canopy cover of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)	2		Rating (1-4): <input type="text"/>
<10% canopy cover or >90% canopy cover of shortleaf pine (<i>Pinus echinata</i>) and/or loblolly pine (<i>Pinus taeda</i>)	1		<input type="text"/>

Stand Density Index		<i>Upper Coastal Plain Pine Flatwoods</i>	Rating Points
SDI = 55 – 145 (12-32% of Maximum SDI of 450)	4		Raw Value: <input type="text"/>
SDI = 35 – 55 or 145 -180 (8-12% or 32-40% of Maximum SDI of 450, 35 – 40% SDI is near maximum of stand growth)	3		<input type="text"/>
SDI = 20 – 35 or 180 - 225 (4-8% or 40-50% of Maximum SDI, 270 is 60% of Maximum SD of 450, which is the onset of self-thinning)	2		Rating (1-4): <input type="text"/>
SDI <20 or >225 (<4% or > 50%, 270 is 60% of Maximum SD of 450, the onset of self-thinning)	1		<input type="text"/>

list of DBHs

Canopy Overall Ecological Assessment

comments

Upper Coastal Plain Pine Flatwoods (UCPPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Midstory Fire-Tolerant Hardwood Cover		<i>Upper Coastal Plain Pine Flatwoods</i>	Rating Points
2 to 10% cover of midstory fire-tolerant hardwoods		4	Raw Value: <input type="text"/>
10 to 20%, or <2% cover of midstory fire-tolerant hardwoods		3	<input type="text"/>
>20 to 35% cover of midstory fire-tolerant hardwoods		2	Rating <input type="text"/>
>35% cover of midstory fire-tolerant hardwoods		1	(1-4): <input type="text"/>

Midstory Fire-Intolerant Hardwood Cover		<i>Upper Coastal Plain Pine Flatwoods</i>	Rating Points
<15% cover of fire-intolerant hardwood midstory		4	Raw Value: <input type="text"/>
15 to 25% cover of fire-intolerant hardwood midstory		3	<input type="text"/>
>25 to 35% cover of fire-intolerant hardwood midstory		2	Rating <input type="text"/>
>35% cover of fire-intolerant hardwood midstory		1	(1-4): <input type="text"/>

Midstory Overall Woody Cover		<i>Upper Coastal Plain Pine Flatwoods</i>	Rating Points
2 to <20% cover of woody midstory		4	Raw Value: <input type="text"/>
20 to 30%, or <2% cover of woody midstory		3	<input type="text"/>
>30 to 50% cover of woody midstory		2	Rating <input type="text"/>
>50% cover of woody midstory		1	(1-4): <input type="text"/>

Midstory Overall Ecological Assessment

comments

Upper Coastal Plain Pine Flatwoods (UCPPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Tall Shrub (3-10 feet tall) Cover		<i>Upper Coastal Plain Pine Flatwoods</i>	Rating Points
Shrubs 3-10 feet in height average <15% cover.	4	Raw Value:	<input type="text"/>
Shrubs 3-10 feet in height average 15 to 20% cover.	3		<input type="text"/>
Shrubs 3-10 feet in height average >20 to 30% cover.	2	Rating	<input type="text"/>
Shrubs 3-10 feet in height average >30% cover.	1	(1-4):	<input type="text"/>

Short Shrub (<3 feet tall) Cover		<i>Upper Coastal Plain Pine Flatwoods</i>	Rating Points
Shrubs < 3 feet in height average <20% cover in the assessment area	4	Raw Value:	<input type="text"/>
Shrubs < 3 feet in height average 20 to 30% cover in the assessment area	3		<input type="text"/>
Shrubs < 3 feet in height average >30 to 45% cover in the assessment area	2	Rating	<input type="text"/>
Shrubs < 3 feet in height average >45% cover in the assessment area	1	(1-4):	<input type="text"/>

Longleaf Pine Regeneration		<i>Rapid Assessment Location</i>	Rating Points
Longleaf pine regeneration (<2" DBH) cover is ≥1% at rapid assessment location	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is <1% at rapid assessment location	3		<input type="text"/>
No Longleaf pine regeneration (<2" DBH) cover seen, but cone-producing longleaf pine or longleaf pine >10" DBH are present rapid assessment location	2	Rating	<input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is apparently absent, and no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present at the rapid assessment location	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Longleaf Pine Regeneration		<i>Stand Level</i>	Rating Points
Longleaf pine regeneration is present in patches across the stand, these patches are 5-15 % of the stand (about 1/20 to 1/6 of the stand)	4	Raw Value:	<input type="text"/>
Longleaf pine regeneration is present in patches across the stand, these patches are 1-5 % of the stand or >15% of the stand (less than 1/20 or more than 1/6 of the stand)	3		<input type="text"/>
Longleaf pine regeneration is very sparse across stand, patches of longleaf pine regeneration are <1% of stand, or cone-producing longleaf pine or longleaf pine >10" DBH are present	2	Rating	<input type="text"/>
Longleaf pine regeneration is apparently absent in stand, and apparently no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present in the stand	1	(1-4):	<input type="text"/>

>10" DBH or cone-producing longleaf present

Shrub Overall Ecological Assessment

comments

Upper Coastal Plain Pine Flatwoods (UCPPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Overall Native Herbaceous Ground Cover *Upper Coastal Plain Pine Flatwoods* **Rating Points**

35-80% herbaceous cover	4	Raw Value: <input type="text"/>
20 to <35% or >80% herbaceous cover	3	<input type="text"/>
10 to <20% herbaceous cover	2	Rating <input type="text"/>
<10% herbaceous cover	1	(1-4): <input type="text"/>

Native Warm Season Grass Cover *Upper Coastal Plain Pine Flatwoods* **Rating Points**

>25% cover of all native warm season grasses	4	Raw Value: <input type="text"/>
20 to 25% cover of all native warm season grasses	3	<input type="text"/>
10 to <20% cover of all native warm season grasses	2	Rating <input type="text"/>
<10% cover of all native warm season grasses	1	(1-4): <input type="text"/>

Invasive Plant Presence/Distribution **Rating Points**

Invasive nonnative plant species absent	4	Raw Value: <input type="text"/>
Invasive nonnative plant species present in any stratum but sporadic (<5% cover)	3	<input type="text"/>
Invasive nonnative plant species in any stratum uncommon (5-10% cover)	2	Rating <input type="text"/>
Invasive nonnative plant species in any stratum common (>10% cover)	1	(1-4): <input type="text"/>

Herbaceous Indicators of Soil Disturbance **Rating Points**

Total cover for herbaceous indicators of soil disturbance <2%	4	Raw Value: <input type="text"/>
Total cover for herbaceous indicators of soil disturbance 2-5%	3	<input type="text"/>
Total cover for herbaceous indicators of soil disturbance >5-10%	2	Rating <input type="text"/>
Total cover for herbaceous indicators of soil disturbance >10%	1	(1-4): <input type="text"/>

Groundcover Overall Ecological Assessment

comments

Upper Coastal Plain Pine Flatwoods (UCPPF) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Contiguous Natural Land Cover		Rating Points	LAN1
Intact: Embedded in 90-100% natural habitat around Assessment Area.	4	Raw Value:	<input type="text"/>
Variiegated: Embedded in 60-<90% natural habitat.	3		<input type="text"/>
Fragmented: Embedded in 20-<60% natural habitat.	2	Rating	<input type="text"/>
Relictual: Embedded in <20% natural habitat.	1	(1-4):	<input type="text"/>
Land Use Index		Rating Points	LAN2
Average Land Use Score = 9.5-10	4	Raw Value:	<input type="text"/>
Average Land Use Score = 8.0-9.4	3		<input type="text"/>
Average Land Use Score = 4.0-7.9	2	Rating	<input type="text"/>
Average Land Use Score < 4.0	1	(1-4):	<input type="text"/>
Perimeter with Natural Buffer		Rating Points	BUF1
Natural buffer is 100% of perimeter	4	Raw Value:	<input type="text"/>
Buffer is 75-99% of perimeter	3		<input type="text"/>
Buffer is 25-<75% of perimeter	2	Rating	<input type="text"/>
Buffer is <25% of perimeter	1	(1-4):	<input type="text"/>

Wet Longleaf & Slash Pine Flatwoods & Savannas (WLSPPS) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Event details

Site Name: Team:

GPS Unit:

Datum:

Latitude: decimal degrees

Longitude: decimal degrees

PDOP:

Number of Satellites:

Ecological System:

Assessment Area/Site Description:

Directions to plot:

Consider for EO (check box)?

EO Comments:

Basal Area of Southern Yellow Pine Canopy Trees

Wet Longleaf & Slash Pine Flatwoods & Savannas

Rating Points

20-80 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)	4
≥10 to <20 or >80 to <90 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)	3
5 to <10 or 90 to <100 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)	2
<5 or ≥100 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)	1

Raw Value:
Rating (1-4):

readings

Southern Yellow Pine Stand Age Structure (14" cutoff)

Wet Longleaf & Slash Pine Flatwoods & Savannas

Rating Points

Basal area ≥20 ft ² /acre of longleaf pine or slash pine trees ≥14" DBH class or flat-top longleaf pine or slash pine is present	4
Basal area ≥10 ft ² /acre of longleaf pine or slash pine trees ≥14" DBH class. No flat-top longleaf pine nor slash pine present.	3
Longleaf pine or slash pine trees ≥14" DBH class are present, but <10 ft ² /acre basal area of those large trees. No flat-top longleaf pine nor slash pine present.	2
No longleaf pine or slash pine trees ≥14" DBH nor flat-top longleaf pine or slash pine are present	1

Raw Value:
Rating (1-4):

readings

flat-top pine present

Southern Yellow Pine Stand Age Structure (12" cutoff)

Wet Longleaf & Slash Pine Flatwoods & Savannas

Rating Points

Basal area ≥20 ft ² /acre of longleaf pine or slash pine trees ≥12" DBH class or flat-top longleaf pine or slash pine is present	4
Basal area ≥10 ft ² /acre of longleaf pine or slash pine trees ≥12" DBH class. No flat-top longleaf pine nor slash pine present.	3
Longleaf pine or slash pine trees ≥12" DBH class are present, but <10 ft ² /acre basal area of those large trees. No flat-top longleaf pine nor slash pine present.	2
No longleaf pine or slash pine trees ≥12" DBH nor flat-top longleaf pine or slash pine are present	1

Raw Value:
Rating (1-4):

readings

flat-top pine present

Wet Longleaf & Slash Pine Flatwoods & Savannas (WLSPTS) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Canopy Hardwood Basal Area		<i>Wet Longleaf & Slash Pine Flatwoods & Savannas</i>		Rating Points
≤5 ft ² /acre basal area of hardwood trees				4 Raw Value: <input type="text"/>
>5 to 15 ft ² /acre basal area of hardwood trees				3 <input type="text"/>
>15 to 25 ft ² /acre basal area of hardwood trees				2 Rating <input type="text"/>
>25 ft ² /acre basal area of hardwood trees				1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Canopy Hardwood Basal Area - Fire-Intolerant		<i>Wet Longleaf & Slash Pine Flatwoods & Savannas</i>		Rating Points
≤5 ft ² /acre basal area of fire intolerant hardwood trees				4 Raw Value: <input type="text"/>
>5 to 10 ft ² /acre basal area of fire intolerant hardwood trees				3 <input type="text"/>
>10 to 20 ft ² /acre basal area of fire intolerant hardwood trees				2 Rating <input type="text"/>
>20 ft ² /acre basal area of fire intolerant hardwood trees				1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Canopy Cover		<i>Wet Longleaf & Slash Pine Flatwoods & Savannas</i>		Rating Points
20-65% canopy cover of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)				4 Raw Value: <input type="text"/>
15 to <20% canopy cover or >65 to 75% canopy cover of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)				3 <input type="text"/>
10 to <15% canopy cover or >75 to 85% canopy cover of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)				2 Rating <input type="text"/>
<10% canopy cover or >85% canopy cover of longleaf pine (<i>Pinus palustris</i>), slash pine (<i>Pinus elliottii</i>), and/or South Florida slash pine (<i>Pinus elliottii</i> var. <i>densa</i>)				1 (1-4): <input type="text"/>

Stand Density Index		<i>Wet Longleaf & Slash Pine Flatwoods & Savannas</i>		Rating Points
SDI = 35 – 120 (9-30% of Maximum SDI of 400)				4 Raw Value: <input type="text"/>
SDI = 20 – 35 or 120 -155 (5-9% or 30-39% of Maximum SDI of 400, 35 – 40% SDI is near maximum of stand growth)				3 <input type="text"/>
SDI = 10 – 20 or 155 - 180 (2.5-5% or 39-45% of Maximum SDI, 240 is 60% of Maximum SD of 400, which is the onset of self-thinning)				2 Rating <input type="text"/>
SDI <10 or >180 (<2.5% or > 45%, 240 is 60% of Maximum SD of 400, the onset of self-thinning)				1 (1-4): <input type="text"/>
list of DBHs	<input type="text"/>			

Canopy Overall Ecological Assessment	
comments	<input type="text"/>

Wet Longleaf & Slash Pine Flatwoods & Savannas (WLSPTS) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Midstory Fire-Tolerant Hardwood Cover *Wet Longleaf & Slash Pine Flatwoods & Savannas* **Rating Points**

2 to 10% cover of midstory fire-tolerant hardwoods	4	Raw Value: <input type="text"/>
10 to 15%, or <2% cover of midstory fire-tolerant hardwoods	3	<input type="text"/>
>15 to 25% cover of midstory fire-tolerant hardwoods	2	Rating <input type="text"/>
>25% cover of midstory fire-tolerant hardwoods	1	(1-4): <input type="text"/>

Midstory Fire-Intolerant Hardwood Cover *Wet Longleaf & Slash Pine Flatwoods & Savannas* **Rating Points**

<5% cover of fire-intolerant hardwood midstory	4	Raw Value: <input type="text"/>
5 to 10% cover of fire-intolerant hardwood midstory	3	<input type="text"/>
>10 to 20% cover of fire-intolerant hardwood midstory	2	Rating <input type="text"/>
>20% cover of fire-intolerant hardwood midstory	1	(1-4): <input type="text"/>

Midstory Overall Woody Cover *Wet Longleaf & Slash Pine Flatwoods & Savannas* **Rating Points**

<10% cover of woody midstory	4	Raw Value: <input type="text"/>
10 – 15% cover of woody midstory	3	<input type="text"/>
>15 to 30% cover of woody midstory	2	Rating <input type="text"/>
>30% cover of woody midstory	1	(1-4): <input type="text"/>

Midstory Overall Ecological Assessment

comments

Wet Longleaf & Slash Pine Flatwoods & Savannas (WLSPTS) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Tall Shrub (3-10 feet tall) Cover *Wet Longleaf & Slash Pine Flatwoods & Savannas* **Rating Points**

Shrubs 3-10 feet in height average <5% cover.	4	Raw Value: <input type="text"/>
Shrubs 3-10 feet in height average 5 to <15% cover.	3	<input type="text"/>
Shrubs 3-10 feet in height average 15-25% cover.	2	Rating <input type="text"/>
Shrubs 3-10 feet in height average >25% cover.	1	(1-4): <input type="text"/>

Short Shrub (<3 feet tall) Cover *Wet Longleaf & Slash Pine Flatwoods & Savannas* **Rating Points**

Shrubs < 3 feet in height average <30% cover in the assessment area	4	Raw Value: <input type="text"/>
Shrubs < 3 feet in height average 30 to <40% cover in the assessment area	3	<input type="text"/>
Shrubs < 3 feet in height average 40 to 45% cover in the assessment area	2	Rating <input type="text"/>
Shrubs < 3 feet in height average >45% cover in the assessment area	1	(1-4): <input type="text"/>

Longleaf Pine Regeneration *Rapid Assessment Location* **Rating Points**

Longleaf pine regeneration (<2" DBH) cover is ≥1% at rapid assessment location	4	Raw Value: <input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is <1% at rapid assessment location	3	<input type="text"/>
No Longleaf pine regeneration (<2" DBH) cover seen, but cone-producing longleaf pine or longleaf pine >10" DBH are present rapid assessment location	2	Rating <input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is apparently absent, and no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present at the rapid assessment location	1	(1-4): <input type="text"/>

>10" DBH or cone-producing longleaf present

Longleaf Pine Regeneration *Stand Level* **Rating Points**

Longleaf pine regeneration is present in patches across the stand, these patches are 5-15 % of the stand (about 1/20 to 1/6 of the stand)	4	Raw Value: <input type="text"/>
Longleaf pine regeneration is present in patches across the stand, these patches are 1-5 % of the stand or >15% of the stand (less than 1/20 or more than 1/6 of the stand)	3	<input type="text"/>
Longleaf pine regeneration is very sparse across stand, patches of longleaf pine regeneration are <1% of stand, or cone-producing longleaf pine or longleaf pine >10" DBH are present	2	Rating <input type="text"/>
Longleaf pine regeneration is apparently absent in stand, and apparently no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present in the stand	1	(1-4): <input type="text"/>

>10" DBH or cone-producing longleaf present

Shrub Overall Ecological Assessment

comments

Wet Longleaf & Slash Pine Flatwoods & Savannas (WLSPTS) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Overall Native Herbaceous Ground Cover *Wet Longleaf & Slash Pine Flatwoods & Savannas* **Rating Points**

40-100% herbaceous cover	4	Raw Value: <input type="text"/>
30 to <40% herbaceous cover	3	<input type="text"/>
20 to <30% herbaceous cover	2	Rating <input type="text"/>
<20% herbaceous cover	1	(1-4): <input type="text"/>

Native Warm Season Grass Cover *Wet Longleaf & Slash Pine Flatwoods & Savannas* **Rating Points**

25-97% cover of all native warm season grasses	4	Raw Value: <input type="text"/>
>15 to <25% or >97% cover of all native warm season grasses	3	<input type="text"/>
10-15% cover of all native warm season grasses	2	Rating <input type="text"/>
<10% cover of all native warm season grasses	1	(1-4): <input type="text"/>

Native Wiry Graminoid Cover *Wet Longleaf & Slash Pine Flatwoods & Savannas* **Rating Points**

20-95% cover of all wiry graminoids	4	Raw Value: <input type="text"/>
15 to <20% or >95% cover of all wiry graminoids	3	<input type="text"/>
5 to <15% cover of all wiry graminoids	2	Rating <input type="text"/>
<5% cover of all wiry graminoids	1	(1-4): <input type="text"/>

Invasive Plant Presence/Distribution **Rating Points**

Invasive nonnative plant species absent	4	Raw Value: <input type="text"/>
Invasive nonnative plant species present in any stratum but sporadic (<5% cover)	3	<input type="text"/>
Invasive nonnative plant species in any stratum uncommon (5-10% cover)	2	Rating <input type="text"/>
Invasive nonnative plant species in any stratum common (>10% cover)	1	(1-4): <input type="text"/>

Herbaceous Indicators of Soil Disturbance **Rating Points**

Total cover for herbaceous indicators of soil disturbance <2%	4	Raw Value: <input type="text"/>
Total cover for herbaceous indicators of soil disturbance 2-5%	3	<input type="text"/>
Total cover for herbaceous indicators of soil disturbance >5-10%	2	Rating <input type="text"/>
Total cover for herbaceous indicators of soil disturbance >10%	1	(1-4): <input type="text"/>

Groundcover Overall Ecological Assessment

comments

Wet Longleaf & Slash Pine Flatwoods & Savannas (WLSPFS) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Contiguous Natural Land Cover		Rating Points	LAN1
Intact: Embedded in 90-100% natural habitat around Assessment Area.	4	Raw Value:	<input type="text"/>
Variiegated: Embedded in 60-<90% natural habitat.	3		<input type="text"/>
Fragmented: Embedded in 20-<60% natural habitat.	2	Rating	<input type="text"/>
Relictual: Embedded in <20% natural habitat.	1	(1-4):	<input type="text"/>
Land Use Index		Rating Points	LAN2
Average Land Use Score = 9.5-10	4	Raw Value:	<input type="text"/>
Average Land Use Score = 8.0-9.4	3		<input type="text"/>
Average Land Use Score = 4.0-7.9	2	Rating	<input type="text"/>
Average Land Use Score < 4.0	1	(1-4):	<input type="text"/>
Perimeter with Natural Buffer		Rating Points	BUF1
Natural buffer is 100% of perimeter	4	Raw Value:	<input type="text"/>
Buffer is 75-99% of perimeter	3		<input type="text"/>
Buffer is 25-<75% of perimeter	2	Rating	<input type="text"/>
Buffer is <25% of perimeter	1	(1-4):	<input type="text"/>

Xeric Longleaf Pine Barrens (XLPB) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Event details

Site Name: Team:
 GPS Unit:

Datum: Ecological System:
 Latitude: decimal
 Longitude: degrees
 PDOP: decimal
 Number of Satellites: degrees

Directions to plot:
 Assessment Area/Site Description:

Consider for EO (check box)? EO Comments:

Basal Area of Southern Yellow Pine Canopy Trees		<i>Xeric Longleaf Pine Barrens</i>	Rating Points
25-80 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>)			4 Raw Value: <input type="text"/>
>15 to <25 or >80 to 90 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>)			3 <input type="text"/>
10 to 15 or > 90 to <100 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>)			2 Rating <input type="text"/>
<10 or ≥100 ft ² /acre basal area of longleaf pine (<i>Pinus palustris</i>)			1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Stand Age Structure (14" cutoff)		<i>Xeric Longleaf Pine Barrens</i>	Rating Points
Basal area ≥20 ft ² /acre of longleaf pine trees ≥ 14" DBH class or flat-top longleaf pine is present			4 Raw Value: <input type="text"/>
Basal area ≥10 ft ² /acre of longleaf pine trees ≥ 14" DBH class			3 <input type="text"/>
Longleaf pine trees ≥14" DBH class are present, but <10 ft ² /acre basal area of those large trees			2 Rating <input type="text"/>
No longleaf pine trees ≥14" DBH nor flat-top longleaf pine are present			1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>
			flat-top pine present <input type="checkbox"/>

Southern Yellow Pine Stand Age Structure (12" cutoff)		<i>Xeric Longleaf Pine Barrens</i>	Rating Points
Basal area ≥20 ft ² /acre of longleaf pine trees ≥ 12" DBH class or flat-top longleaf pine is present			4 Raw Value: <input type="text"/>
Basal area ≥10 ft ² /acre of longleaf pine trees ≥ 12" DBH class			3 <input type="text"/>
Longleaf pine trees ≥12" DBH class are present, but <10 ft ² /acre basal area of those large trees			2 Rating <input type="text"/>
No longleaf pine trees ≥12" DBH nor flat-top longleaf pine are present			1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>
			flat-top pine present <input type="checkbox"/>

Canopy Hardwood Basal Area		<i>Xeric Longleaf Pine Barrens</i>	Rating Points
≤5 ft ² /acre basal area of hardwood trees			4 Raw Value: <input type="text"/>
>5 to 15 ft ² /acre basal area of hardwood trees			3 <input type="text"/>
>15 to 25 ft ² /acre basal area of hardwood trees			2 Rating <input type="text"/>
>25 ft ² /acre basal area of hardwood trees			1 (1-4): <input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>

Xeric Longleaf Pine Barrens (XLPB) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Canopy Hardwood Basal Area - Fire-Intolerant		<i>Xeric Longleaf Pine Barrens</i>	Rating Points
≤5 ft ² /acre basal area of fire intolerant hardwood trees	4		Raw Value: <input type="text"/>
>5 to 10 ft ² /acre basal area of fire intolerant hardwood trees	3		<input type="text"/>
>10 to 20 ft ² /acre basal area of fire intolerant hardwood trees	2		Rating (1-4): <input type="text"/>
>20 ft ² /acre basal area of fire intolerant hardwood trees	1		<input type="text"/>
readings	<input type="text"/>	<input type="text"/>	<input type="text"/>

Southern Yellow Pine Canopy Cover		<i>Xeric Longleaf Pine Barrens</i>	Rating Points
>20 to 55% canopy cover of longleaf pine (<i>Pinus palustris</i>)	4		Raw Value: <input type="text"/>
>15 to 20% canopy cover or >55 to 70% canopy cover of longleaf pine (<i>Pinus palustris</i>)	3		<input type="text"/>
5-15% canopy cover or >70 to 80% canopy cover of longleaf pine (<i>Pinus palustris</i>)	2		Rating (1-4): <input type="text"/>
<5% canopy cover or >80% canopy cover of longleaf pine (<i>Pinus palustris</i>)	1		<input type="text"/>

Stand Density Index		<i>Xeric Longleaf Pine Barrens</i>	Rating Points
SDI = 50 – 120 (13-30% of Maximum SDI of 400)	4		Raw Value: <input type="text"/>
SDI = 30 – 50 or 120 -160 (8-13% or 30-40% of Maximum SDI of 400, 35 – 40% SDI is near maximum of stand growth)	3		<input type="text"/>
SDI = 20 – 30 or 160 - 180 (5-8% or 40-45% of Maximum SDI, 240 is 60% of Maximum SD of 400, which is the onset of self-thinning)	2		Rating (1-4): <input type="text"/>
SDI <20 or >180 (<5% or > 45%, 240 is 60% of Maximum SD of 400, the onset of self-thinning)	1		<input type="text"/>
list of DBHs			

Canopy Overall Ecological Assessment	
comments	

Xeric Longleaf Pine Barrens (XLPB) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Midstory Fire-Tolerant Hardwood Cover *Xeric Longleaf Pine Barrens* **Rating Points**

2 to 10% cover of midstory fire-tolerant hardwoods	4	Raw Value: <input type="text"/>
10 to 20% cover, or <2% cover of midstory fire-tolerant hardwoods	3	<input type="text"/>
>20 to 25% cover of midstory fire-tolerant hardwoods	2	Rating <input type="text"/>
>25% cover of midstory fire-tolerant hardwoods	1	(1-4): <input type="text"/>

Midstory Fire-Intolerant Hardwood Cover *Xeric Longleaf Pine Barrens* **Rating Points**

0% cover of fire-intolerant hardwood midstory	4	Raw Value: <input type="text"/>
>0 to 5% cover of fire-intolerant hardwood midstory	3	<input type="text"/>
>5 to 15% cover of fire-intolerant hardwood midstory	2	Rating <input type="text"/>
>15% cover of fire-intolerant hardwood midstory	1	(1-4): <input type="text"/>

Midstory Overall Woody Cover *Xeric Longleaf Pine Barrens* **Rating Points**

2 to <15% cover of woody midstory	4	Raw Value: <input type="text"/>
15 – 25%, or <2% cover of woody midstory	3	<input type="text"/>
>25 to 35% cover of woody midstory	2	Rating <input type="text"/>
>35% cover of woody midstory	1	(1-4): <input type="text"/>

Midstory Overall Ecological Assessment

comments

Xeric Longleaf Pine Barrens (XLPB) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Tall Shrub (3-10 feet tall) Cover *Xeric Longleaf Pine Barrens* **Rating Points**

Shrubs 3-10 feet in height average <5% cover.	4	Raw Value: <input type="text"/>
Shrubs 3-10 feet in height average 5 to <15% cover.	3	<input type="text"/>
Shrubs 3-10 feet in height average 15 to <30% cover.	2	Rating (1-4): <input type="text"/>
Shrubs 3-10 feet in height average ≥30% cover.	1	

Short Shrub (<3 feet tall) Cover *Xeric Longleaf Pine Barrens* **Rating Points**

Shrubs < 3 feet in height average <25% cover in the assessment area	4	Raw Value: <input type="text"/>
Shrubs < 3 feet in height average 25 to 35% cover in the assessment area	3	<input type="text"/>
Shrubs < 3 feet in height average >35 to 45% cover in the assessment area	2	Rating (1-4): <input type="text"/>
Shrubs < 3 feet in height average >45% cover in the assessment area	1	

Longleaf Pine Regeneration *Rapid Assessment Location* **Rating Points**

Longleaf pine regeneration (<2" DBH) cover is ≥1% at rapid assessment location	4	Raw Value: <input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is <1% at rapid assessment location	3	<input type="text"/>
No Longleaf pine regeneration (<2" DBH) cover seen, but cone-producing longleaf pine or longleaf pine >10" DBH are present rapid assessment location	2	Rating (1-4): <input type="text"/>
Longleaf pine regeneration (<2" DBH) cover is apparently absent, and no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present at the rapid assessment location	1	

>10" DBH or cone-producing longleaf present

Longleaf Pine Regeneration *Stand Level* **Rating Points**

Longleaf pine regeneration is present in patches across the stand, these patches are 5-15 % of the stand (about 1/20 to 1/6 of the stand)	4	Raw Value: <input type="text"/>
Longleaf pine regeneration is present in patches across the stand, these patches are 1-5 % of the stand or >15% of the stand (less than 1/20 or more than 1/6 of the stand)	3	<input type="text"/>
Longleaf pine regeneration is very sparse across stand, patches of longleaf pine regeneration are <1% of stand, or cone-producing longleaf pine or longleaf pine >10" DBH are present	2	Rating (1-4): <input type="text"/>
Longleaf pine regeneration is apparently absent in stand, and apparently no cone-producing longleaf pine or any mature longleaf pine >10" DBH are present in the stand	1	

>10" DBH or cone-producing longleaf present

Shrub Overall Ecological Assessment

comments

Xeric Longleaf Pine Barrens (XLPB) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Overall Native Herbaceous Ground Cover *Xeric Longleaf Pine Barrens* **Rating Points**

40-100% herbaceous cover	4	Raw Value: <input type="text"/>
>25 to <40% herbaceous cover	3	<input type="text"/>
>15 to 25% herbaceous cover	2	Rating (1-4): <input type="text"/>
0-15% herbaceous cover	1	<input type="text"/>

Native Warm Season Grass Cover *Xeric Longleaf Pine Barrens* **Rating Points**

25-95% cover of all native warm season grasses	4	Raw Value: <input type="text"/>
15 to <25% or >95% cover of all native warm season grasses	3	<input type="text"/>
10 to <15% cover of all native warm season grasses	2	Rating (1-4): <input type="text"/>
<10% cover of all native warm season grasses	1	<input type="text"/>

Native Wiry Graminoid Cover *Xeric Longleaf Pine Barrens* **Rating Points**

20-95% cover of all wiry graminoids	4	Raw Value: <input type="text"/>
10 to <20% or >95% cover of all wiry graminoids	3	<input type="text"/>
2 to <10% cover of all wiry graminoids	2	Rating (1-4): <input type="text"/>
<2% cover of all wiry graminoids	1	<input type="text"/>

Invasive Plant Presence/Distribution **Rating Points**

Invasive nonnative plant species absent	4	Raw Value: <input type="text"/>
Invasive nonnative plant species present in any stratum but sporadic (<5% cover)	3	<input type="text"/>
Invasive nonnative plant species in any stratum uncommon (5-10% cover)	2	Rating (1-4): <input type="text"/>
Invasive nonnative plant species in any stratum common (>10% cover)	1	<input type="text"/>

Herbaceous Indicators of Soil Disturbance **Rating Points**

Total cover for herbaceous indicators of soil disturbance <2%	4	Raw Value: <input type="text"/>
Total cover for herbaceous indicators of soil disturbance 2-5%	3	<input type="text"/>
Total cover for herbaceous indicators of soil disturbance >5-10%	2	Rating (1-4): <input type="text"/>
Total cover for herbaceous indicators of soil disturbance >10%	1	<input type="text"/>

Groundcover Overall Ecological Assessment

comments

Xeric Longleaf Pine Barrens (XLPB) EIA datasheet Open Pine (metrics ver2.0)

Plot ID: Date:

Contiguous Natural Land Cover		Rating Points	LAN1
Intact: Embedded in 90-100% natural habitat around Assessment Area.	4	Raw Value:	<input type="text"/>
Variiegated: Embedded in 60-<90% natural habitat.	3		<input type="text"/>
Fragmented: Embedded in 20-<60% natural habitat.	2	Rating	<input type="text"/>
Relictual: Embedded in <20% natural habitat.	1	(1-4):	<input type="text"/>
Land Use Index		Rating Points	LAN2
Average Land Use Score = 9.5-10	4	Raw Value:	<input type="text"/>
Average Land Use Score = 8.0-9.4	3		<input type="text"/>
Average Land Use Score = 4.0-7.9	2	Rating	<input type="text"/>
Average Land Use Score < 4.0	1	(1-4):	<input type="text"/>
Perimeter with Natural Buffer		Rating Points	BUF1
Natural buffer is 100% of perimeter	4	Raw Value:	<input type="text"/>
Buffer is 75-99% of perimeter	3		<input type="text"/>
Buffer is 25-<75% of perimeter	2	Rating	<input type="text"/>
Buffer is <25% of perimeter	1	(1-4):	<input type="text"/>