

LOUISIANA DEPARTMENT OF AGRICULTURE & FORESTRY MIKE STRAIN DVM COMMISSIONER



Best Management Practices Survey Results 2021

Agricultural & Environmental Sciences Suite 3000 (225) 925-3770 Fax: 925-3760

Agro-Consumer Services Suite 5000 (225) 922-1341 Fax: 923-4877

Animal Health & Food Safety Suite 4000 (225) 925-3962 Fax: 925-4103

Forestry Suite 6000 (225) 925-4500 Fax: 922-1356

Management & Finance Suite 1000 (225) 922-1255 Fax: 925-6012

Soil & Water Conservation Suite 7000 (225) 922-1269 Fax: 922-2577 This survey is done by the Louisiana Department of Agricultural and Forestry every three years. We strive to keep the site selection as random as possible while picking tracts to survey. In this report I explain how I determine the total amount of sites to survey in the State and how many in each parish. I also included the breakdown of how many sites were surveyed in each parish. If a parish is not included in this report, it is because there was not enough timber harvested in that parish to justify doing a survey. Finally, I have included a total breakdown of all the data collected in each category, a percent compliance for each category, and the total average.

To begin, I used the following formula from the USFS to determine how many sites had to be inspected:

$$N = \frac{4p (100 - p)}{M^2}$$

Where: N = # of sites to monitor P = % of estimated BMP rate (85%) M = margin of error (5%)

*Using this formula, I determined that 204 sites needed to be inspected.

Using the Severance Tax Report, I determined the total amount of boardfeet harvested statewide. I divided this number by 204 which told me that for every 4.8 million boardfeet harvested, there needed to be one site inspected. Again, using the severance tax report, I took the breakdown of the harvest report for each parish and took the total amount harvested in each parish and divided that by 4.8 million which told me how many sites needed to be inspected in each parish. This number ranged from 0 to 18 sites.

The pilots found twice the number of sites needed in each parish to turn in to the foresters. The foresters then randomly picked the number of sites needed from this number. The total number of tracts chosen by pilots for foresters to randomly choose from was 408. This number was used to determine a 95% confidence interval.

Percent compliance based on a 95% confidence interval: 96.89% \pm 4.86%

David Campbell
Forestry Program Manager,
Louisiana Department of Agriculture and Forestry
Ph# 225-952-8009

2021 BMP Survey

Number of BMP Surveys by District/Parish

District 1 (74 Surveys)
Caddo (4)
Bossier (5)
Webster (6)
Claiborne (11)
Bienville (13)
Lincoln (2)
Jackson (14)
Union (10)
Ouachita (2)
Caldwell (7)
District 2 (16 Surveys)
Morehouse (1)
Catahoula (2)
La Salle (13)
District 3 (57 Surveys)
Desoto (6)
Sabine (18)
Natchitoches (10)
Winn (18)

Grant (3)		
Red River (2)		
District 4 (43 Surveys)		
Vernon (12)		
S. Rapides (8)		
Beauregard (10)		
Allen (8)		
Calcasieu (2)		
Evangeline (3)		
District 5 (0 Surveys)		
District 5 (0 Surveys)		
District 5 (0 Surveys) District 6 (14 Surveys)		
District 6 (14 Surveys)		
District 6 (14 Surveys) East Feliciana (3)		
District 6 (14 Surveys) East Feliciana (3) St Helena (3)		
District 6 (14 Surveys) East Feliciana (3) St Helena (3) Livingston (3)		
District 6 (14 Surveys) East Feliciana (3) St Helena (3) Livingston (3) Tangipahoa (2)		

Total Surveys: 204

Shan taghuronius	_
BMP MONITORING	Tracts
Silvicultural Activity:	Surveyed
Regeneration Cut - 84	
Thinning - 11.27%	23
Other - 3.92%	8
Tract Size:	
10-40 Acres - 20.10%	41
41-80 Acres - 31.86%	65
81-120 Acres - 17.16%	
121-160 Acres - 15.209	
161 + Acres - 15.69%	32
Ownership:	
PNIF - 50.49%	103
Industry - 48.53%	99
Federal - 0%	0
State - 0.98%	2
3. Streamside Managem	
A. SMZ Width Establish	ed According to BMP Specifications
153 - YES	2 - NO 50 - N/A
98.70%	1.30%
B. Harvesting/Thinning	with SMZ According BMP Specifications
	4 - NO 53 - N/A
97.35%	2.65%
C. SMZ Integrity Preser	ved
150 - YE\$	3 - NO 51- N/A
98.04%	1.96%
D. Stream Course Clear	of Logging Debris
144 - YES	12 - NO 48 - N/A
92.31%	7.69%
E. SMZ Free of Roads a	
	7 - NO 50 - N/A
	4.55%
F. Stream Free of Sedin	nent Dute to Silvicultural Activity
	5 - NO SO - N/A
	3.90%
G. Rutting Through Stea	ams or Drains Avoided
	3 - NO 48 - N/A
98.08%	•
H. Hot Site Prep Fire Av	oided in SMZ
57 - YES (
100.00%	0.00%
I. Blocking The Natural I	
	3 - NO 50 - N/A
94.81%	5.19%
Stream Bank Integrity	
150 - YES 3	
100 100	, 140 PT - 141W

98.04%

Percent Compliance

1.96%

96.89%

4. Stream Crossings A. Ditches That Dump Into Streams Avoided 126 - YES 5 - NO 73 - N/A 96.18% 3.81% B. Streams Crossing Properly Installed 123 - YES 3 - NO 78 - N/A 97.62% 2.38% C. Number of Stream Crossing Minimized 126 - YES 0 NO 78- N/A 100.00% 0.00%D. Stream or Drain Crossing at Right Angle Only 122- YES 1 - NO 81 - N/A 99.19% 0.81% E. Stream Crossing Stabilized During Use 121 - YES 2 - NO 81 - N/A 98.37% 1.63% Percent Compliance 98.27% 5. Permanent Roads A. Road Respect Sensitive Areas 171 - YES 0 - NO 33 - N/A 100.00% 0.00% B. Rutting is Not Excessive 172 - YES 4 NO 28 · N/A 97.73% 2.27% C. Roads Located Where Side Drainage Can Be Achieved 167 - YES 5 - NO 32 - N/A 97.09% 2.91% D. Roads Wide Enough to Achieve Surface Drying 172 - YES 1 - NO 31 - N/A 99.42% 0.58% E. Roads Reshaped and/Or Stabilized If Needed 153 - YES 16 - NO 35 - N/A 90.53% 9.47% F. Roads Meet Grade Specifications 169 - YES 5 - NO 30 - N/A 97.13% 2.87% G. Roads Are Well Drained with Appropriate Structures 152 - YES 8 - NO 44 - N/A 95.00% 5.00% H. Side Ditches Do Not Dump Into Streams 152 - YES 4 - NO 48 - N/A 97.44% 2.56% I. Flat No Grade Road Avoided if Possible 168 - YES 6 - NO 30 - N/A 96.55% 3.45%

J. Streambeds, Rocky Places, And Steep Slopes Avoided

0.00%

1.19%

40 - N/A

36 - N/A

97.25%

164 - YES 0 - NO

100.00%

K. Potential Problems Soils Avoided 166 - YES 2 - NO 36

98.81%

Percent Compliance

A. Sensitive Areas Respected
198 - YES 2 - NO 4 - N/A
99.00% 1.00%
B. Majority of Skid Trail Grades Below 15 Percent
200 - YES 1 - NO 3 - N/A
99,50% 0,50%
C. Excessive Tract Rutting Area Does Not Exceed 25%
195 - YES 7 - NO 2 - N/A
96.53% 3.47%
D. Water Bars, Turnouts, and Other Water Control Structures
125 - YES 40 - NO 39 - N/A
75.76% 24.24%
E. Roads and Skid Tralls are Stabilized
173 - YES 24 - NO 17 - N/A
87.82% 12.18%
Percent Compliance 91.72%
7. Site Preparation
A. Sensitive Areas Respected
132-YES 1-NO 71-N/A
99.25% 0.25%
B. Contour Followed
128 - YES 0 - NO 76 - N/A
100.00% 0.00%
C. SMZ Integrity Preserved
118 - YES 0 - NO 86 - N/A
100.00% 0,00%
D. Soil Disturbance Kept To A Minimum
132 - YES S - NO 67 - N/A
96.35% 3.65%
E. Excessive Soil Compaction Avoided
136 - YES 1 - NO 67 · N/A
99.27% 0.73%
F. Does It Appear That Chemicals Were Used to Label Specs
106 - YES 4 - NO 94 - N/A
96.36% 3.64%
G. Disturbance On Slope Minimized
133 - YES 2 - NO 69 - N/A
98.52% 1.48%
H. Water Diverted from Site Prep Area to Vegetated Surface
112 - YES 4 - NO 88 - N/A
96.55% 3.45%
I. Extremely Hot Burns Avoided
63 - YES 0 - NO 141 - N/A
100.00% 0.00%

98.48%

Percent Compliance

6. Skid Trails/Temporary (Secondary) Roads

184 - YES 2 - NO 18 - N/A 98.92% 1.08% B. Well-Drained Location 198 - YES 2 - NO 4 - N/A 99.00% 1.00% C. Number and Size Minimized 201 - YES 0 - NO 3 - N/A 100.00% 0.00% D. Sensitive Areas Respected 199 - YES 0 - NO 5 - N/A 100.00% 0.00% E. Restored/Stabilized 175 - YES 19 - NO 10 - N/A 90.21% 9.79% Percent Compliance 97.62% 9. Wetlands (Wetlands BMPs Are Mandatory Practices) A. Hydrology of Site Unaltered 78 - YES 3 - NO 123 - N/A 96.30% 3.70% B. Roads, Orainage Strutures Applied Properly 75 - YES 1 - NO 128 - N/A 98.68% 1.32% C. Mandatory BMPs Followed If Indicated 76 - YES 1 - NO 127 - N/A 98.70% 1.30% Percent Compliance 97.89% 10. Fireline Construction A. Fireline Erosion Controlled 36 - YES 3 - NO 165 - N/A 92.31% 7.69% B. Majority of Fireline Constructed Around Slopes/Grades <10% 38 - YES 0 - NO 166 - N/A 100.00% 0.00% C. Water Bars, Turnouts, & Other Water Control Structures Properly Installed 33 - YES 5 - NO 166 - N/A 86.84% 13.16% D. Diversion Ditches Not Constructed At the Head of a Drain 34 - YES 0 - NO 170 - N/A 100.00% 0.00% E. Firelines Not Constructed Down the Slope of Natural Gully 37 - YES 0 - NO 167 - N/A 100.00% 0.00% F. SMZs Left 8eween the Fireline and Streams 29 - YES 0 - NO 175 - N/A 100.00% 0.00% G. Avoid Constructing Firelines Into An SMZ 31 - YES 0- NO 173 - N/A 100.00% 0.00% Percent Compliance 97.02%

8. Landings

A. Location Outside of SM2

SUMMARY COMPLIANCE TOTALS

Streamside Management Zone:	96.89%
Stream Crossings:	98.27%
Permanent Roads:	97.25%
Skid Trails/Temporary(Secondary) Roads:	91.72%
Site Preparation:	98.48%
Landings:	97.62%
Wetlands:	97.89%
Fireline Construction:	97.02%

STATEWIDE TOTAL BMP COMPLIANCE: 96.89%