DECISION NOTICE
AND
FINDING OF NO SIGNIFICANT IMPACT

USDA Forest Service R-8
Ozark National Forest
Mt. Magazine Ranger District
Logan County, Arkansas

COMPARTMENTS 23, 27, 28, 31, AND 62
SHOAL PROJECT

An environmental assessment (EA) is available for public review in the district office in Paris, Arkansas, for the Shoal Project. This document, which was prepared by an interdisciplinary team (ID Team), discusses a proposed timber harvest and connected actions of reforestation, road activities, trail management activities, stream habitat management, and wildlife habitat improvement.

These actions are needed to contribute to the goals and objectives outlined in the Land and Resource Management Plan for the Ozark - St. Francis National Forests (LRMP), and helps move the project area towards desired conditions described in the LRMP. The primary objectives for this area are:

- maintain stand vigor by providing light, nutrients, and water to the majority of stands to help ward off future insect and disease attacks.
- provide viability needs in early seral successional habitat (0-5 years old).
- begin the process of balancing age classes.
- lessen the possibility of catastrophic wildland fires (especially in drought years) by reducing the amount of burnable fuels, increase forage production of grasses and forbs for wildlife, and to restore and maintain native ecosystems that are dependent on periodic fires.
- provide quality wildlife habitat to meet Ozark-St. Francis Land and Resources Management Plan (LRMP) standards.
- reduce impacts to wildlife and limit erosion potential on certain roads not needed for management in the near future throughout the project area.
- provide forest products consistent with land capability, suitability, protection of needs, and other resource values.
- control invasive species in the project area.
- provide stream habitat management.
- manage the Huckleberry Mtn. Horse Trail/Mt. Magazine OHV Trail system.

The Shoal Project area encompasses approximately 7329 acres of National Forest land. This area is included in three different management areas. They are as follows:

- Management Area 3.A. (Pine Woodland) - described on pages 2-56 to 2-58 of the LRMP; emphasis is to restore and maintain a landscape mosaic of open pine woodland that approximates historical conditions.

- Management Area 3.C. (Mixed Forest) - described on pages 2-61 to 2-62 of the LRMP; emphasis is to manage these lands to ensure the health and sustainability of the pine, pine/hardwood, hardwood/pine, and hardwood forest types across the landscape.

- Management Area 3.I (Riparian Corridors) – described on pages 2-71 to 2-76 of the LRMP; emphasis is to retain, restore, and enhance the inherent ecological processes and functions of the associated aquatic, riparian, and upland components within the corridors.

PUBLIC INVOLVEMENT AND SCOPING

Scoping for this project began with the mailing of the proposed action to adjacent landowners and interested citizens on April 5, 2011. This list included letters to nine Native American Tribes and the Arkansas Game and Fish Commission. The scoping package contained a description of the proposed action, a map depicting the proposed action, and a comment form. A total of 75 letters were mailed.

A copy of the proposed action letter was posted that same week on the Ozark-St. Francis National Forests website at http://www.fs.fed.us/oonf/ozark/projects/planning/magproject.html.

This project was also listed in the Schedule of Proposed Actions and posted on the Ozark-St. Francis National Forests website at http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5291930.pdf

The ID Team also received this scoping.

Two public responses were received from this scoping effort and responses are shown in Appendix E of the Environmental Assessment. Both of the public responses were in favor of the proposed actions.

The EA was sent out for a 30-day comment period on August 15, 2011, pursuant to CFR 215.3. A copy of the EA was posted that same week on the Ozark-St. Francis National Forest website at http://www.fs.usda.gov/wps/portal/fsinternet/!ut/p/c5/04_SB8K8xLLM9MSSzPy8xBz9CP0os3gjAwhwtDDw9_AI8zPyhQoYAOUjMeXDfODy-HWHg-zDrx8kb4ADOBro-3nk56bqF-RGGGSZOCoCAPi8eX8!/dl3/d3/L2dJQSEvUUt3QS9ZQnZ3LzZfMjAwMDAwMDBBODBPSEhWTjJNMDAwMDAwMDA!/?navtype=BROWSEBYSUBJECT&cid=stelprdb5212192&navid=130100000000000&pnavid=130000000000000&ss=110810&position=Not Yet Determined.Html&ttype=detail&pname=Ozark-St. Francis National Forests- Planning.

No comments were received during this comment period.

DECISION AND REASONS FOR THE DECISION

Based on the results of the analysis documented in the EA, it is my decision to implement Alternative 1 along with Mitigation Measures described on pages 26-30 of the EA. Table 1 shows the activities in Alternative 1. Maps are attached to this decision showing these actions.

An estimated 61,784 CCF (Hundred Cubic Feet) of pine, hardwood, and cedar sawtimber and roundwood will be harvested. The combined present value of direct revenue generated from the timber harvest and the indirect revenue generated by habitat management for wildlife is estimated at approximately $3,344,561. The present value of costs due to management activities is estimated at approximately $2,683,385. The net present value resulting from the proposed activities of Alternative 1 is approximately $661,175.

The timber sale, which will accomplish the timber harvesting, is scheduled for FY 2014. Following completion of harvest activities in FYs 2015-2017, site preparation and other silvicultural activities will be scheduled from FYs 2017-2022. Rehabilitation of temporary roads will occur after all activities are completed. Wildlife habitat improvement activities will be scheduled from 2014-2024.

Table 1. Summary of Alternative 1 Actions.*

SHORTLEAF PINE SHELTERWOOD HARVESTING	**653 Acres** 11,728 CCF *C-23/Stands 1, 8, 20* *C-27/Stands 1, 6, 16, 27* *C-28/Stands 16, 19* *C-31/Stand 11* *C-62/Stands 2, 20, 30*
SHORTLEAF PINE/HARDWOOD THINNING	**813 Acres** 10,912 CCF *Thin to 50 BA* *C-31/Stands 3, 16* *Thin to 60 BA* *C-27/Stands 7, 28, 36, 45* *C-28/Stands 2, 4, 10, 15* *C31/Stands 7, 12* *C-62/Stand 3*
SHORTLEAF PINE/LOBLOLLY PINE THINNING	**2398 Acres** 31,815 CCF *Thin to 50 BA* *C-23/Stands 12, 13, 15* *Thin to 60 BA* *C-23/Stands 3, 4, 6, 9, 10, 16, 17, 19, 23, 24, 25, 27, 29, 31, 32, 33, 34, 35* *C-27/Stands 3, 4, 5, 9, 10, 11, 14, 15, 19, 20, 21, 22, 23, 24, 25, 26, 29, 30, 31, 33, 38, 40, 44* *C-31/Stands 1, 2, 18, 19* *C-62/Stands 1, 4, 6, 7, 9, 11, 17, 18, 21, 22 ,23, 25, 27*
CEDAR THINNING	**7329 Acres** 7,329 CCF *C-23/All Stands* *C-27/All Stands* *C-28/All Stands* *C-31/All Stands* *C-62/All Stands*
SHORTLEAF PINE SEEDTREE REMOVAL	**747 Acres** 4,956 CCF *C-23/Stands 1, 8, 20* *C-27/Stands 1, 6, 16, 27* *C-28/Stands 16, 19* *C-31/Stand 5, 11* *C-62/Stands 2, 8, 16, 20, 30*

*All acres, miles, and volumes are approximations

Table 1. Summary of Alternative 1 Actions, continued.*

TEMPORARY ROAD CONSTRUCTION	**14.9 Miles** *C-23, 27, 28, 31, 62*
ROAD CONSTRUCTION	**0.2 Miles** *FDR 96061C*
ROAD RECONSTRUCTION	**15.0 Miles** *Portions of FDR 1604, 1613, 1624, 1690, 1687E, 96027A, and Spring Lake Road*
ROAD REALIGNMENT	**1.6 Miles** *Portions of FDR 1604 and Barber Ridge Road*
ROAD DECOMMISSIONING (Includes 1.5 miles of trail located on FDR 1604)	**3.0 Miles** *Portions of FDR 1604, 1604A, 96036A, and Barber Ridge Road*
ROAD MAINTENANCE	**11.8 Miles** *Portions of FDR 1624, 1657, 1604A, 1624A, 1687E, 1690A, 96022C, 96023A, 96023B, 96023C, 96023D, 96027A, 96027C, 96027D, 96027E, 96028A, 96028B, 96028C, 96028F, 96062A, 96062B, 96062C, 96062E*
ROAD CLOSURE	**8.2 Miles** *Portions of FDR 1604, 1687E, 96023A, 96023B, 96023C, 96027A, 96027B, 96061C*
ROAD CLOSURE REMOVAL	FDR 1604A, 96031A
BORROW PIT DEVELOPMENT	**Up to 5 Acres** *Section 12, T6N, R24W*
SHORTLEAF PINE SITE PREPARATION Handtools/Chemical/Prescribed Burning	**653 Acres** *C-23/Stands 1, 8, 20* *C-27/Stands 1, 6, 16, 27* *C-28/Stands 16, 19* *C-31/Stand 11* *C-62/Stands 2, 20, 30*
SHORTLEAF PINE PLANTING Handtools	**653 Acres** *C-23/Stands 1, 8, 20* *C-27/Stands 1, 6, 16, 27* *C-28/Stands 16, 19* *C-31/Stand 11* *C-62/Stands 2, 20, 30*

* Acres and miles are approximations

Table 1. Summary of Alternative 1 Actions, continued.*

SHORTLEAF PINE RELEASE Handtools/Chemical	**747 Acres** *C-23/Stands 1, 8, 20* *C-27/Stands 1, 6, 16, 27* *C-28/Stands 16, 19* *C-31/Stands 5, 11* *C-62/Stands 2, 8, 16, 20, 30*
NON-NATIVE INVASIVE SPECIES TREATMENT Handtools/Chemical	**Up to 700 acres/year** *C-23/All Stands* *C-27/All Stands* *C-28/All Stands* *C-31/All Stands* *C-62/All Stands*
WILDLIFE OPENING CONSTRUCTION/RESTORATION**	**7 Openings** *C-23/Stands 12, 35* *C-27/Stands 10, 25, 28* *C-31/Stand 2* *C-62/Stand 17*
WILDLIFE OPENING ENLARGEMENT/RESTORATION***	**2 Openings** *C-27/Stands 7, 31*
WILDLIFE OPENING RESTORATION***	**11 Openings** *C-23/Stands 24, 32* *C-27/Stand 18* *C-28/Stand 2* *C-31/Stand 7* *C-62/Stands 2, 4, 7, 13, 23, 24*
WILDLIFE STAND IMPROVEMENT	**61 Acres** *C-23/Stands 37, 38* *C-62/Stands 14, 24*

* Acres and miles are approximations
** Proposed for two restoration treatments on a two-year rotation
*** Proposed for three restoration treatments on a two-year rotation

Table 1. Summary of Alternative 1 Actions, continued.*

WILDLIFE HABITAT IMPROVEMENT/ FUELS REDUCTION PRESCRIBED BURNING**	**7329 Acres** *C-23/All Stands* *C-27/All Stands* *C-28/All Stands* *C-31/All Stands* *C-62/All Stands* *The following 653 acres would be excluded during the first burning rotation but would be burned in subsequent rotations –* *C-23/Stands 1, 8, 20* *C-27/Stands 1, 6, 16, 27* *C-28/Stands 16, 19* *C-31/Stand 11* *C-62/Stands 2, 20, 30*
STREAM HABITAT MANAGEMENT	**34.3 Miles** *C-23/Stands 1, 2, 3, 5, 6, 12, 13, 16, 19, 20, 25, 27, 29, 31, 32, 33, 34, 35* *C-27/Stands 1, 2, 8, 12, 13, 17, 18, 22, 24, 30, 32, 35, 41, 43, 44* *C-28/Stands 1, 2, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19* *C-31/Stands 1, 2, 3, 4, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20* *C-62/Stands 3, 7, 15, 16, 17, 18, 20, 22, 23, 24, 27, 28*
AQUATIC ORGANISM PASSAGE CONSTRUCTION	**3 Passages** *C-28/Stands 1, 2* *C-62/Stand 7*
TRAIL RELOCATION	**3.6 Miles** *FDR 1604*
TRAIL DECOMMISSIONING	**2.3 Miles** *Portions of Huckleberry Mountain Horse Trail and Mt. Magazine OHV Trail*
TRAIL WIDTH RESTRICTORS AND ROAD CLOSURE	**6 Restrictors** *Located on FDR 1604, 96023A, 96023C, 96027A, 96027B*
TRAIL WIDTH RESTRICTORS	**4 Restrictors** *Located on a powerline (Sections 10,11; T6N, R24W)*
TRAIL WIDTH RESTRICTION FOR VEHICLES 50" OR LESS	**9.3 Miles** *Portions of FDR 1604, 96023A, 96023B, 96023C, 96027A, 96027B, Huckleberry Mountain Horse Trail, Mt. Magazine OHV Trail, and powerline (Sections 10,11; T6N, R24W)*

* Acres and miles are approximations
** Proposed for three treatments for burning on a three- to four-year rotation

Alternative 1 with its mitigating measures was selected because it best addressed the purpose and need in a balanced, cost effective way providing for a high level of resource outputs that can be maintained in perpetuity without harming land productivity. My conclusion is based on a review of the record that shows a thorough review of relevant scientific information, a consideration of responsible opposing views, and the acknowledgment of incomplete or unavailable information, scientific uncertainty, and risk. Analysis shows it:

1. Provides for healthy forests by thinning (EA; pp. 65-66).
2. Provides for early successional habitat (EA, p. 65).
3. Begins to balance age classes (EA, pp. 65).
4. Reduces amount of burnable fuels and increases forage production (EA, p. 65).
5. Provides enhanced wildlife habitat through openings (EA, pp. 66, 71).
6. Closes roads not needed for management in the near future (EA, p. 58).
7. Provides commodities (EA, p. 13).
8. Provides for control of invasive species (EA, p. 67).
9. Provides woody material for identified streams (EA, p. 67).
10. Provides for management of the Huckleberry Mtn. Horse Trail/Mt. Magazine OHV Trail System (EA, pp. 52, 53)

Alternative 2 does not provide these resource outputs.

OTHER ALTERNATIVES CONSIDERED

One alternative to the selected alternative was developed and analyzed. It was Alternative 2, a no action alternative. No timber harvest and connected actions of reforestation, road activities, trail management activities, stream habitat management, and wildlife habitat improvement would occur. Estimated indirect present revenue of approximately $690,781 would still be generated due to the existing wildlife habitat. This revenue will decrease in subsequent cycles due to deteriorating habitat. The net present value resulting from this alternative was estimated at approximately $690,781.

FINDINGS REQUIRED BY OTHER LAWS AND REGULATIONS

All actions of Alternative 1 are consistent with the LRMP and other applicable laws as follows:

1. The actions of this project are consistent with the LRMP Vision, Strategy, and Design Criteria. The actions of this project occur in Management Area 3.A (Pine Woodland), Management Area 3.C (Mixed Forest), and Management Area 3.I (Riparian Corridors). The actions in Alternative 1 are consistent with the LRMP because they meet the standards and guidelines, and mitigation measures for environmental impacts have been fully applied in the planned actions. These mitigation measures include both monitoring and evaluation of planned actions. The project is feasible and reasonable, and it results in applying management practices that meet the LRMP's overall direction of protecting the environment while producing goods and services (EA, pp. 26-30).

2. All actions of this project harvest timber on those lands the LRMP identifies as suitable for timber production (LRMP, pp. 2-56, 2-61, and 2-71; EA, pp. 3, 59). (See 36 CFR 219.14 for definition).

3. I have determined for the present even-aged stands of Compartment 23/Stands 1, 8, 20; Compartment 27/Stands 1, 6, 16, 27; Compartment 28/Stands 16, 19; Compartment 31/Stand 11; and Compartment 62/Stands 2, 20, and 30 that the shelterwood harvest method is the appropriate method to meet the LRMP objectives and requirements. Based on the site-specific analysis of the proposal, the discussions of silvicultural systems and their harvest cutting methods in Appendix B of the FEIS of the LRMP are applicable to the forest conditions in these compartments.

   Shelterwood cutting is appropriate as follows:

a. Utilizes the seed source already in place that will provide adequate stocking (EA, p. 65).

b. Provides early successional habitat and provides for diversity in the lower age classes on approximately 653 acres in thirteen areas (EA; pp. 65, 71).

c. Shelterwood cutting is generally accepted in research literature on silviculture as being an appropriate regeneration harvest cutting method for shortleaf pine when establishment of an even-aged stand is the desired future condition (EA, pp. 64, 65).

4. I have determined that Alternative 1 complies with 36 CFR 219.27 (b) according to the following:

   a. Is best suited to the multiple-use goals of the area with the potential environmental, biological, cultural resources, aesthetic, engineering and economic impacts, as stated in the regional guides and LRMP, considered in this determination (EA, pp. 33-92).

   b. The lands harvested can be adequately restocked in 5 years except for permanent openings created for wildlife, roads, and similar purposes (EA, p. 65).

   c. Is not selected because of its dollar return or output of timber although these factors were considered (EA; pp. 88-91).

   d. Is selected after considering the potential effects on remaining trees and adjacent stands (EA, pp. 64-67).

   e. Is not permanently harmful to site productivity and ensures conservation of soil and water resources (EA, pp. 26-30).

   f. Does provide desired effects on water quantity and quality, wildlife and fish habitat, regeneration of desired species, recreation uses, aesthetic values, and other resource yields (EA, pp. 33-92).

   g. Is practical in terms of transportation and harvesting requirements, and total costs of preparation, logging, and administration (EA; pp. 56-59, 88-91).

FINDING OF NO SIGNIFICANT IMPACT

I have determined that the proposed actions are not a major Federal action either individually or cumulatively, and will not significantly affect the quality of the human environment. Therefore, an environmental impact statement is not necessary. This determination is based on the following factors (40 CFR 1508.27):

1. Both beneficial and adverse effects have been considered and this action will not have a significant effect on the quality of the human environment (EA, pp. 33-92).

2. The actions will not affect public health or safety (EA, pp. 83-87).

3. The project will not significantly affect any unique characteristics of the geographic area such as proximity to historic or cultural resources, wetlands, floodplains, wild and scenic rivers, or ecologically critical areas (EA; pp. 54-55, 40, 80-83).

4. The effects on the quality of the human environment are not likely to be highly controversial (EA, pp. 33-92).

5. The actions do not involve highly uncertain, unique, or unknown environmental risks to the human environment (EA, pp. 33-92).

6. The actions in this decision will not establish a precedent for future actions with significant effects nor does it represent a decision in principle about a future consideration (EA, pp. 33-92).

7. There will be no cumulatively significant impacts on the environment. The cumulative effects of the proposed actions have been analyzed with consideration of other similar activities on adjacent lands, in past actions, and in foreseeable future actions (EA, pp. 33-92).

8. The actions will not affect any sites listed in, or eligible for listing, in the National Register of Historic Places or will they cause loss or destruction of significant scientific, cultural, or historic resources (EA, pp. 54-55).

9. The actions are not likely to adversely affect endangered or threatened plant or animal species, or their critical habitat (EA, pp. 80-83).

10. None of the actions threaten to lead to violation of federal, state, or local laws imposed for the protection of the environment (EA; pp. 26-30).

    For water quality management, state-approved Best Management Practices (BMPs), which are incorporated into the mitigation measures, will be used for this project. These BMPs are from the state water quality management plan, and have been designed with the goal of producing water that meets state water quality standards. The project will be monitored to insure BMPs are implemented. If implementing BMPs on a specific site results in effects significantly higher than anticipated, because of unforeseen site factors or events, appropriate corrective measures will be considered and implemented. This project will fully comply with state approved BMPs and the Clean Water Act.

PROJECT IMPLEMENTATION AND APPEAL RIGHTS

This decision is not subject to appeal pursuant to 36 CFR 215.12 (e)(1). This decision may be implemented immediately pursuant to 36 CFR 215.9 (c)(1).

CONTACT PERSON

Further information about this decision can be obtained from Vicki Weindel, NEPA Coordinator, Mt. Magazine Ranger District, P.O. Box 511, Paris, AR 72855; (479) 973-3076; fax (479) 963-8055; e-mail: vweindel@fs.fed.us.

SIGNATURE AND DATE

Rob Kopack _____ _____*09/27/11*_____

Rob Kopack
Deputy District Ranger
Mt. Magazine Ranger District

Date

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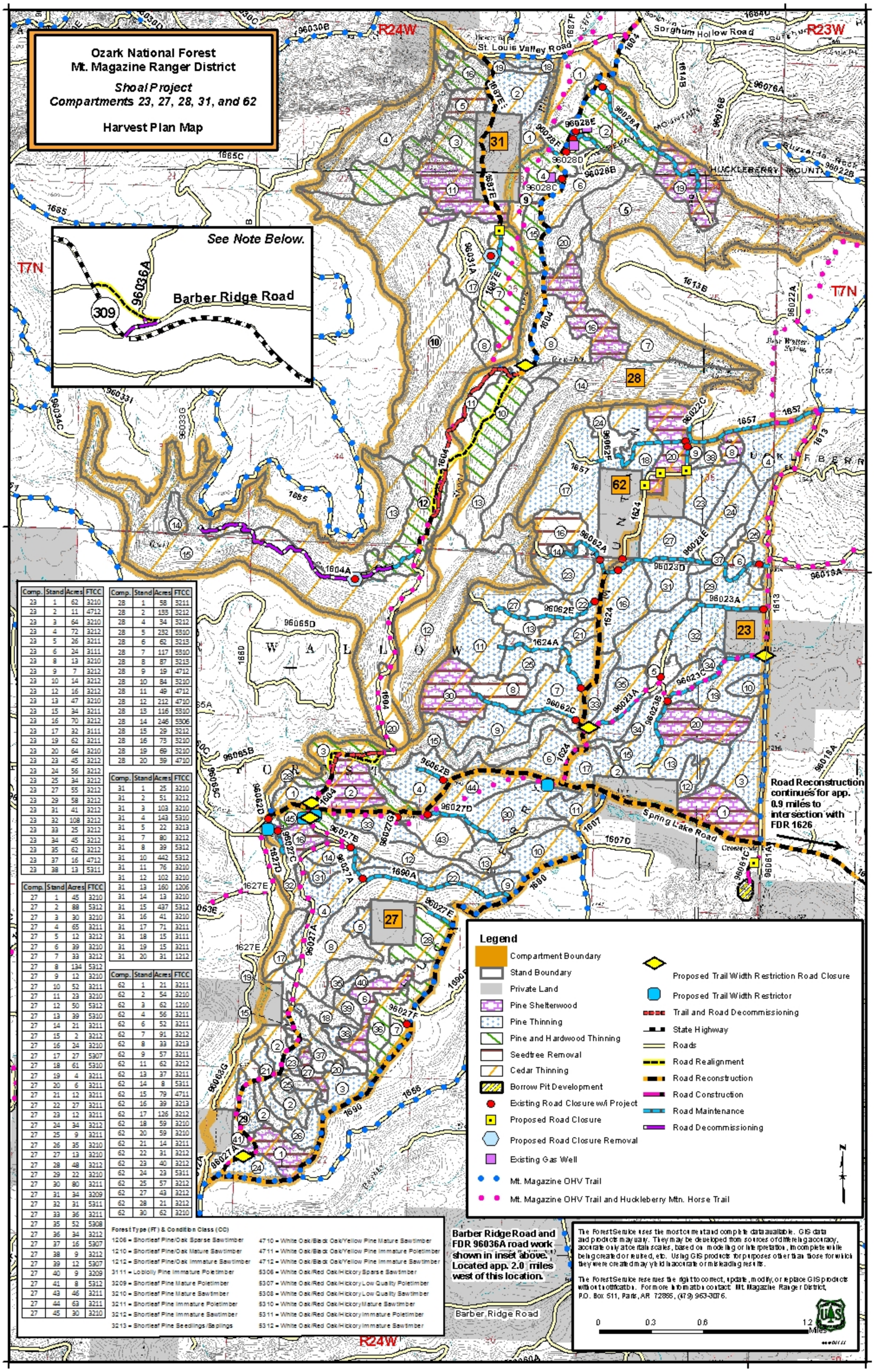
Ozark National Forest
Mt. Magazine Ranger District

Shoal Project
Compartments 23, 27, 28, 31, and 62

Harvest Plan Map



Comp.	Stand	Acres	FTCC
23	1	62	3210
23	2	11	4712
23	3	64	3210
23	4	72	3212
23	5	26	3211
23	6	24	3111
23	8	13	3210
23	9	7	3212
23	10	14	3212
23	12	16	3212
23	13	47	3210
23	15	34	3211
23	16	70	3212
23	17	32	3111
23	19	62	3211
23	20	64	3210
23	23	45	3212
23	24	56	3212
23	25	34	3212
23	27	55	3212
23	29	58	3212
23	31	41	3212
23	32	108	3212
23	33	25	3212
23	34	45	3212
23	35	62	3212
23	37	16	4712
23	38	13	5311

Comp.	Stand	Acres	FTCC
27	1	45	3210
27	2	88	5312
27	3	30	3210
27	4	65	3211
27	5	12	3212
27	6	39	3210
27	7	33	3212
27	8	134	5312
27	9	12	3210
27	10	52	3211
27	11	23	3210
27	12	50	5312
27	13	39	5310
27	14	21	3211
27	15	2	3212
27	16	24	3210
27	17	27	5307
27	18	61	5310
27	19	4	3211
27	20	6	3211
27	21	12	3211
27	22	27	3211
27	23	12	3211
27	24	34	3212
27	25	9	3211
27	26	35	3210
27	27	13	3210
27	28	48	3212
27	29	22	3210
27	30	80	3211
27	31	34	3209
27	32	31	5311
27	33	36	3211
27	35	52	5308
27	36	34	3212
27	37	16	5307
27	38	9	3212
27	39	12	5307
27	40	9	3209
27	41	8	5312
27	43	46	3211
27	44	63	3211
27	45	30	3210

Comp.	Stand	Acres	FTCC
28	1	58	3211
28	2	133	3212
28	4	34	3212
28	5	232	5310
28	6	62	3213
28	7	117	5310
28	8	87	3213
28	9	19	4712
28	10	84	3210
28	11	49	4712
28	12	212	4710
28	13	116	5310
28	14	246	5306
28	15	29	3212
28	16	73	3210
28	19	69	3210
28	20	39	4710

Comp.	Stand	Acres	FTCC
31	1	25	3210
31	2	51	3212
31	3	103	3210
31	4	143	5310
31	5	22	3213
31	7	80	3212
31	8	39	5312
31	10	442	5312
31	11	76	3210
31	12	102	3210
31	13	160	1206
31	14	13	3210
31	15	437	5312
31	16	41	3210
31	17	71	3211
31	18	15	3111
31	19	15	3211
31	20	31	1212

Comp.	Stand	Acres	FTCC
62	1	21	3211
62	2	54	3210
62	3	62	1210
62	4	56	3211
62	6	52	3211
62	7	91	3212
62	8	33	3213
62	9	57	3211
62	11	62	3212
62	13	37	3211
62	14	8	5311
62	15	79	4711
62	16	39	3213
62	17	126	3212
62	18	59	3210
62	20	59	3210
62	21	14	3211
62	22	31	3212
62	23	40	3212
62	24	23	5311
62	25	57	3212
62	27	43	3212
62	28	21	3212
62	30	62	3210

Forest Type (FT) & Condition Class (CC)

1206 = Shortleaf Pine/Oak Sparse Sawtimber
1210 = Shortleaf Pine/Oak Mature Sawtimber
1212 = Shortleaf Pine/Oak Immature Sawtimber
3111 = Loblolly Pine Immature Poletimber
3209 = Shortleaf Pine Mature Poletimber
3210 = Shortleaf Pine Mature Sawtimber
3211 = Shortleaf Pine Immature Poletimber
3212 = Shortleaf Pine Immature Sawtimber
3213 = Shortleaf Pine Seedlings/Saplings
4710 = White Oak/Black Oak/Yellow Pine Mature Sawtimber
4711 = White Oak/Black Oak/Yellow Pine Immature Poletimber
4712 = White Oak/Black Oak/Yellow Pine Immature Sawtimber
5306 = White Oak/Red Oak/Hickory Sparse Sawtimber
5307 = White Oak/Red Oak/Hickory Low Quality Poletimber
5308 = White Oak/Red Oak/Hickory Low Quality Sawtimber
5310 = White Oak/Red Oak/Hickory Mature Sawtimber
5311 = White Oak/Red Oak/Hickory Immature Poletimber
5312 = White Oak/Red Oak/Hickory Immature Sawtimber

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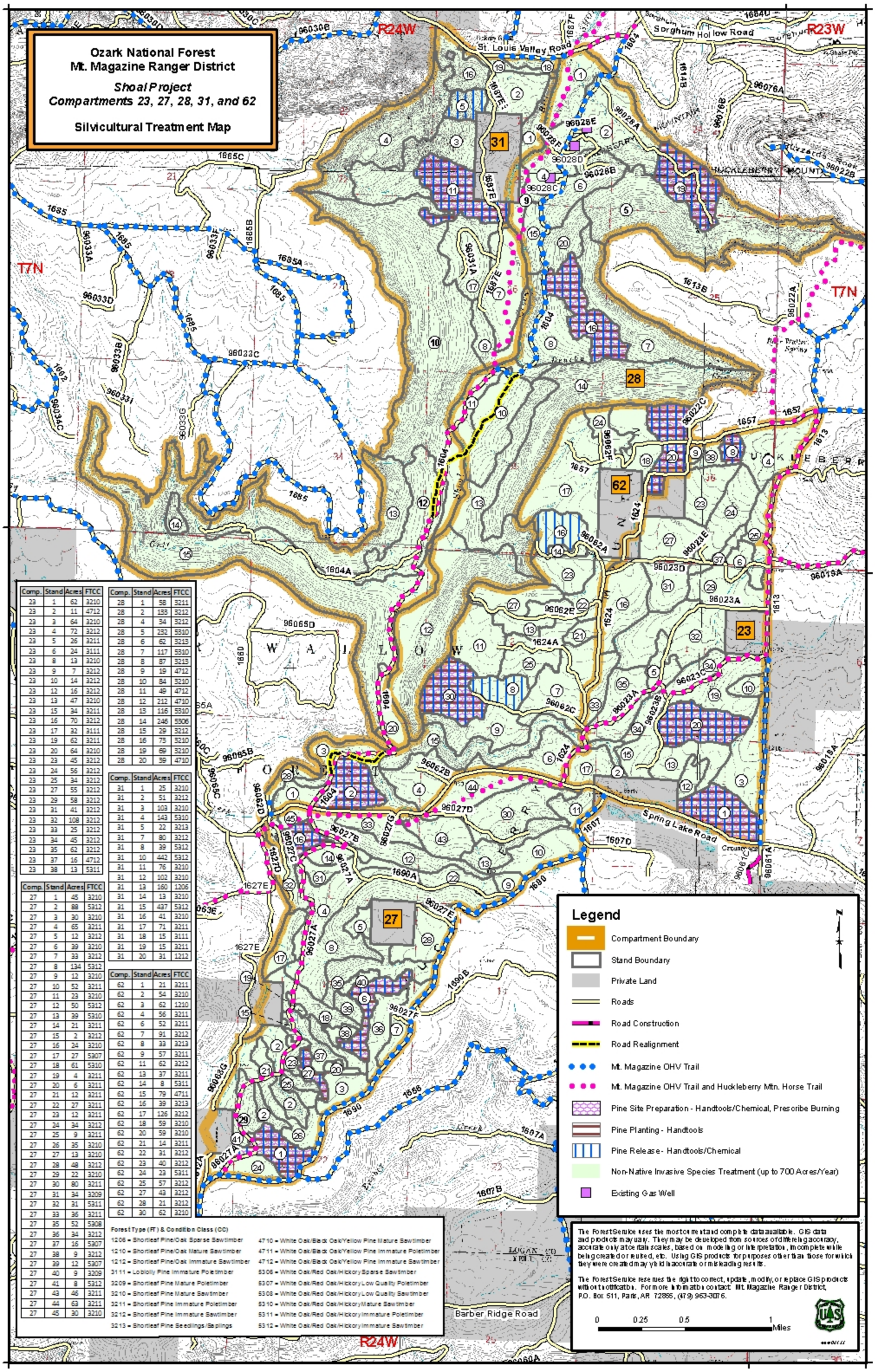
Ozark National Forest
Mt. Magazine Ranger District

Shoal Project
Compartments 23, 27, 28, 31, and 62

Silvicultural Treatment Map



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23	8	13	3210
23	9	7	3212
23	10	14	3212
23	12	16	3212
23	13	47	3210
23	15	34	3211
23	16	70	3212
23	17	32	3111
23	19	62	3211
23	20	64	3210
23	23	45	3212
23	24	56	3212
23	25	34	3212
23	27	55	3212
23	29	58	3212
23	31	41	3212
23	32	108	3212
23	33	25	3212
23	34	45	3212
23	35	62	3212
23	37	16	4712
23	38	13	5311

Comp.	Stand	Acres	FTCC
27	1	45	3210
27	2	88	5312
27	3	30	3210
27	4	65	3211
27	5	12	3212
27	6	39	3210
27	7	33	3212
27	8	134	5312
27	9	12	3210
27	10	52	3211
27	11	23	3210
27	12	50	5312
27	13	39	5310
27	14	21	3211
27	15	2	3212
27	16	24	3210
27	17	27	5307
27	18	61	5310
27	19	4	3211
27	20	6	3211
27	21	12	3211
27	22	27	3211
27	23	12	3211
27	24	34	3212
27	25	9	3211
27	26	35	3210
27	27	13	3210
27	28	48	3212
27	29	22	3210
27	30	80	3211
27	31	34	3209
27	32	31	5311
27	33	36	3211
27	35	52	5308
27	36	34	3212
27	37	16	5307
27	38	9	3212
27	39	12	5307
27	40	9	3209
27	41	8	5312
27	43	46	3211
27	44	63	3211
27	45	30	3210

Comp.	Stand	Acres	FTCC
28	1	58	3211
28	2	133	3212
28	4	34	3212
28	5	232	5310
28	6	62	3213
28	7	117	5310
28	8	87	3213
28	9	19	4712
28	10	84	3210
28	11	49	4712
28	12	212	4710
28	13	116	5310
28	14	246	5306
28	15	29	3212
28	16	73	3210
28	19	69	3210
28	20	39	4710

Comp.	Stand	Acres	FTCC
31	1	25	3210
31	2	51	3212
31	3	103	3210
31	4	143	5310
31	5	22	3213
31	7	80	3212
31	8	39	5312
31	10	442	5312
31	11	76	3210
31	12	102	3210
31	13	160	1206
31	14	13	3210
31	15	437	5312
31	16	41	3210
31	17	71	3211
31	18	15	3111
31	19	15	3211
31	20	31	1212

Comp.	Stand	Acres	FTCC
62	1	21	3211
62	2	54	3210
62	3	62	1210
62	4	56	3211
62	6	52	3211
62	7	91	3212
62	8	33	3213
62	9	57	3211
62	11	62	3212
62	13	37	3211
62	14	8	5311
62	15	79	4711
62	16	39	3213
62	17	126	3212
62	18	59	3210
62	20	59	3210
62	21	14	3211
62	22	31	3212
62	23	40	3212
62	24	23	5311
62	25	57	3212
62	27	43	3212
62	28	21	3212
62	30	62	3210

Forest Type (FT) & Condition Class (CC)

1206 = Shortleaf Pine/Oak Sparse Sawtimber
1210 = Shortleaf Pine/Oak Mature Sawtimber
1212 = Shortleaf Pine/Oak Immature Sawtimber
3111 = Loblolly Pine Immature Poletimber
3209 = Shortleaf Pine Mature Poletimber
3210 = Shortleaf Pine Mature Sawtimber
3211 = Shortleaf Pine Immature Poletimber
3212 = Shortleaf Pine Immature Sawtimber
3213 = Shortleaf Pine Seedlings/Saplings
4710 = White Oak/Black Oak/Yellow Pine Mature Sawtimber
4711 = White Oak/Black Oak/Yellow Pine Immature Poletimber
4712 = White Oak/Black Oak/Yellow Pine Immature Sawtimber
5306 = White Oak/Red Oak/Hickory Sparse Sawtimber
5307 = White Oak/Red Oak/Hickory Low Quality Poletimber
5308 = White Oak/Red Oak/Hickory Low Quality Sawtimber
5310 = White Oak/Red Oak/Hickory Mature Sawtimber
5311 = White Oak/Red Oak/Hickory Immature Poletimber
5312 = White Oak/Red Oak/Hickory Immature Sawtimber

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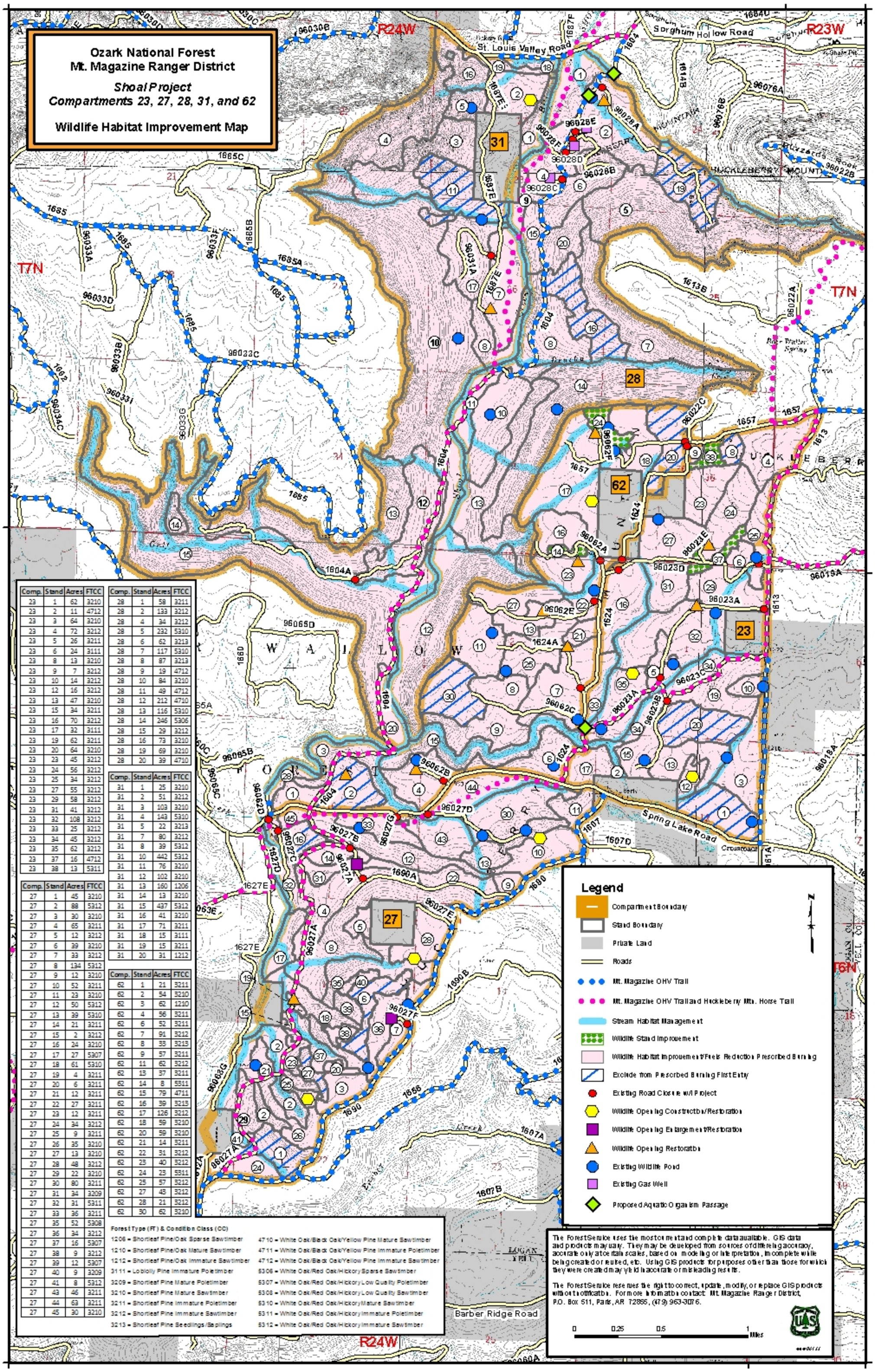
Ozark National Forest
Mt. Magazine Ranger District

Shoal Project
Compartments 23, 27, 28, 31, and 62

Wildlife Habitat Improvement Map



Comp.	Stand	Acres	FTCC
23	1	62	3210
23	2	11	4712
23	3	64	3210
23	4	72	3212
23	5	26	3211
23	6	24	3111
23	8	13	3210
23	9	7	3212
23	10	14	3212
23	12	16	3212
23	13	47	3210
23	15	34	3211
23	16	70	3212
23	17	32	3111
23	19	62	3211
23	20	64	3210
23	23	45	3212
23	24	56	3212
23	25	34	3212
23	27	55	3212
23	29	58	3212
23	31	41	3212
23	32	108	3212
23	33	25	3212
23	34	45	3212
23	35	62	3212
23	37	16	4712
23	38	13	5311

Comp.	Stand	Acres	FTCC
27	1	45	3210
27	2	88	5312
27	3	30	3210
27	4	65	3211
27	5	12	3212
27	6	39	3210
27	7	33	3212
27	8	134	5312
27	9	12	3210
27	10	52	3211
27	11	23	3210
27	12	50	5312
27	13	39	5310
27	14	21	3211
27	15	2	3212
27	16	24	3210
27	17	27	5307
27	18	61	5310
27	19	4	3211
27	20	6	3211
27	21	12	3211
27	22	27	3211
27	23	12	3211
27	24	34	3212
27	25	9	3211
27	26	35	3210
27	27	13	3210
27	28	48	3212
27	29	22	3210
27	30	80	3211
27	31	34	3209
27	32	31	5311
27	33	36	3211
27	35	52	5308
27	36	34	3212
27	37	16	5307
27	38	9	3212
27	39	12	5307
27	40	9	3209
27	41	8	5312
27	43	46	3211
27	44	63	3211
27	45	30	3210

Comp.	Stand	Acres	FTCC
28	1	58	3211
28	2	133	3212
28	4	34	3212
28	5	232	5310
28	6	62	3213
28	7	117	5310
28	8	87	3213
28	9	19	4712
28	10	84	3210
28	11	49	4712
28	12	212	4710
28	13	116	5310
28	14	246	5306
28	15	29	3212
28	16	73	3210
28	19	69	3210
28	20	39	4710

Comp.	Stand	Acres	FTCC
31	1	25	3210
31	2	51	3212
31	3	103	3210
31	4	143	5310
31	5	22	3213
31	7	80	3212
31	8	39	5312
31	10	442	5312
31	11	76	3210
31	12	102	3210
31	13	160	1206
31	14	13	3210
31	15	437	5312
31	16	41	3210
31	17	71	3211
31	18	15	3111
31	19	15	3211
31	20	31	1212

Comp.	Stand	Acres	FTCC
62	1	21	3211
62	2	54	3210
62	3	62	1210
62	4	56	3211
62	6	52	3211
62	7	91	3212
62	8	33	3213
62	9	57	3211
62	11	62	3212
62	13	37	3211
62	14	8	5311
62	15	79	4711
62	16	39	3213
62	17	126	3212
62	18	59	3210
62	20	59	3210
62	21	14	3211
62	22	31	3212
62	23	40	3212
62	24	23	5311
62	25	57	3212
62	27	43	3212
62	28	21	3212
62	30	62	3210

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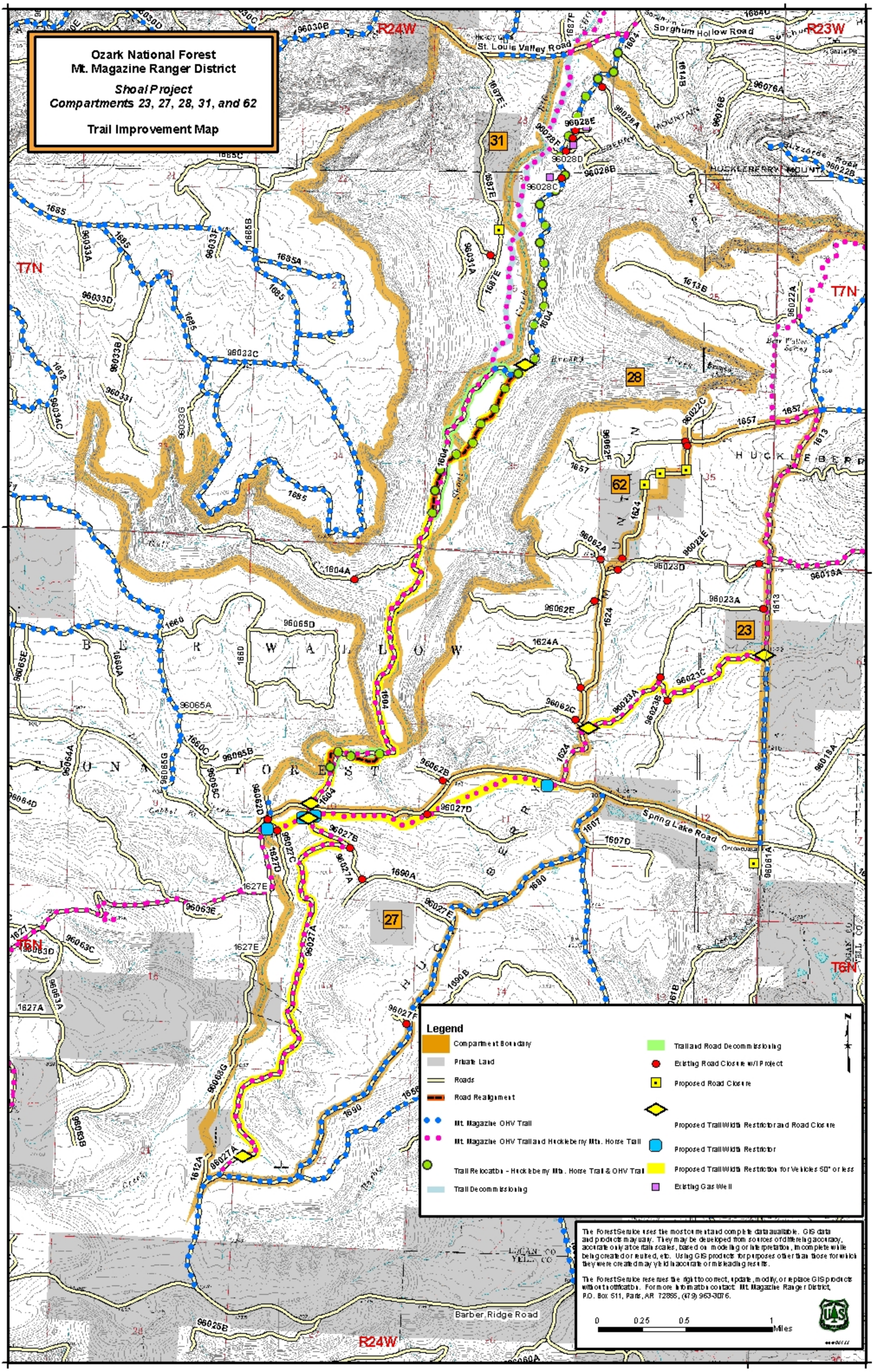
Ozark National Forest
Mt. Magazine Ranger District

Shoal Project
Compartments 23, 27, 28, 31, and 62

Trail Improvement Map



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