

JACKSON DEMONSTRATION STATE FOREST **RESEARCH PLAN**

Presented to the Board of Forestry and Fire Protection

MANAGEMENT COMMITTEE

January 27, 2015

Purpose of the Research Plan

- Strategic guidance for research and demonstration within feasible context (*i.e.*, 5 years)
- Integrated with Management Plan- addendum
- Identifies 4 Focus Areas
High interest areas with relevance to redwood forest management.
Priority subject areas for CAL FIRE funded research.

Conceptual Framework

- Demonstration State Forests, including JDSF, are public lands that are mandated by law to provide opportunities to conduct research, demonstration, and education on sustainable forestry practices.
- Policy – conduct innovative demonstrations, experiments, and education in forest management; that timber production will be the primary land use on JDSF, and that recreation is recognized as a secondary but compatible land use on JDSF (Board Policy 0351.2).
- JDSF's unique role as a working public redwood forest provides the overarching demonstration of a sustainably managed 48,562 acre forest.
- This plan identifies the need for varied stand structures explicitly tying research goals more closely to management of the Forest.

Research Plan Development Process

- Complementary to the Management Plan
- Final product following years of input received from the Jackson Advisory Group (JAG), the Board's Research and Science Committee, technical experts, stakeholders and the general public.
- Review and development of this plan
 - Panel of former Board members
 - Expert panel

JDSF Expert Panel



Kevin O'Hara
• *Prof. of Silviculture*
• *UC Berkeley*



Martin Ritchie
• *Research Scientist*
PSW Research Sta.



Tim Bean
• *Asst. Prof. of Wildlife*
• *Humboldt State Univ.*



Lee MacDonald
• *Prof. of Hydrology*
• *Colorado State Univ.*

FOCUS AREAS

***Sustainable
Forestry***

***Managed redwood
forests' climate change
adaptations and role in
carbon sequestration***

***Upland terrestrial
habitat and forest
structural relationships***

***Watershed science,
restoration and aquatic
habitat recovery***

Basic forest management requirements for this Research Plan as identified by the Expert Panel

- The management of JDSF should be no more restrictive than the regulations that govern forest practices in the region. The baseline for management should be the California Forest Practice Rules.
- The California Forest Practice Rules should be explicitly tested on JDSF. In order to test hypotheses, one may need to go beyond the limitations of the Forest Practice Rules.
- Projects should demonstrate existing and new methodology and technology (*e.g.*, silvicultural methods, logging systems, vegetation management, road designs, etc.).
- Communication regarding proposed physical changes within an existing research project footprint is needed before changes occur.
- Long-term stability, commitment and research opportunity is key to successful implementation of research projects on JDSF.

Forest Management and Special Concern Areas 2015

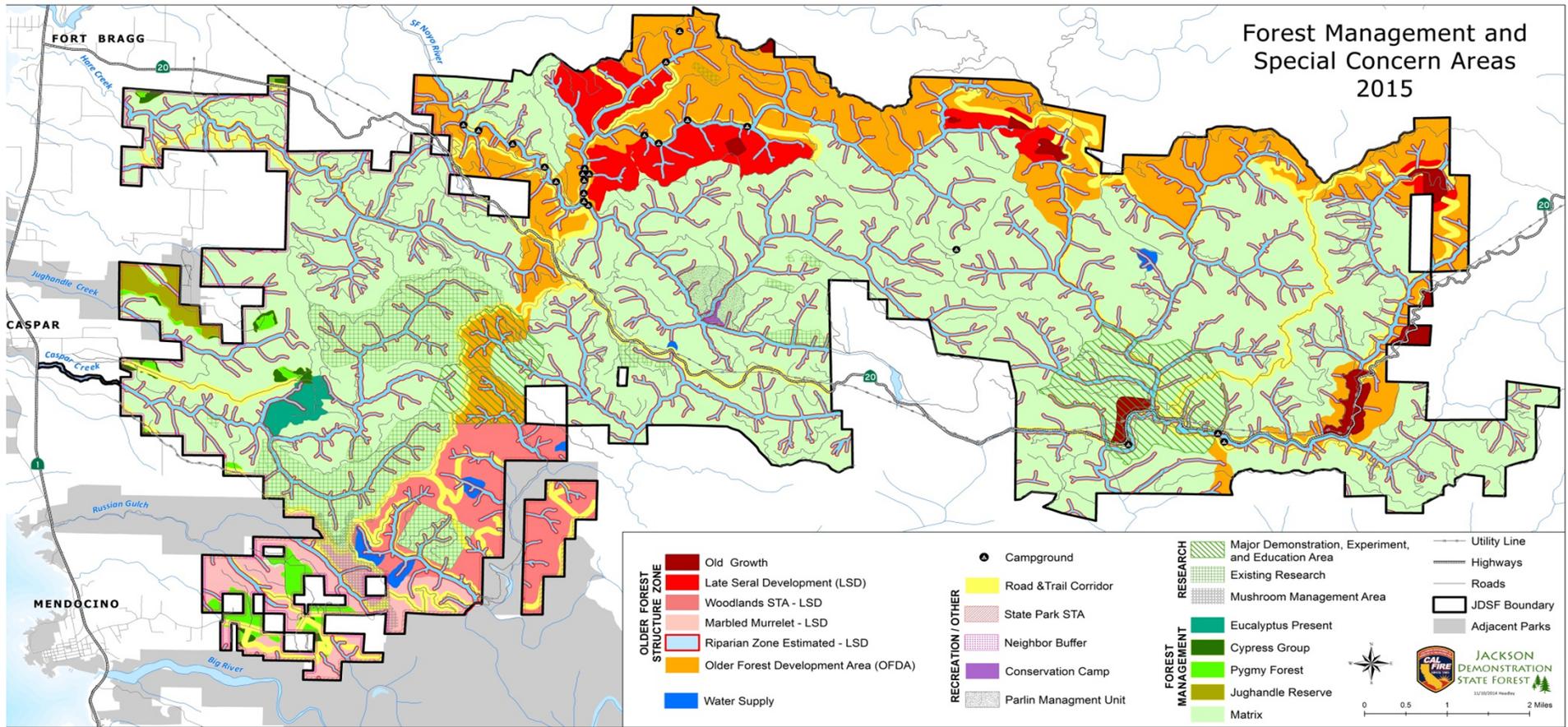


Table 3. JDSF 2015 Landscape Allocations.

Major Allocation	Specific Allocation	Acres	Subtotal
RESERVES			707
	Jughandle Administrative Pygmy Reserve	246	
	Old Growth Groves	461	
NON TIMBER MANAGEMENT AREAS			761
	Pygmy Forest	494	
	Cypress Groups	163	
	Power Line Right-of-Way	72	
	Conservation Camps	32	
LATE SERAL DEVELOPMENT AREAS			10,877
	Riparian Zone (WLPZ)	7,339	
	Woodlands Special Treatment Area	1,280	
	Marbled Murrelet	859	
	Late Seral Development	1,400	
OLDER FOREST DEVELOPMENT AREA			5,631
SPECIAL CONCERN AREAS			6,796
	Neighbor Buffer	409	
	Road and Trail Corridor	3,071	
	Domestic Water Supply	137	
	State Park Special Treatment Area	329	
	Research Areas (existing)	2,291	
	Campground Buffer	23	
	Eucalyptus Infestation Area	203	
	Parlin Fork Management Area	220	
MATRIX	Matrix		24,016
TOTAL			48,674

**Research Administration and
Funding**

**Partnerships, Outreach and
Educational Activities**

Demonstration

Monitoring

Data