



Purpose of the Refuge

- Conserve endangered and threatened species (In 1989, winter-run Chinook salmon, Valley elderberry long-horned beetle, Least Bell's Vireo, American Bald Eagle) and their habitats
- Provide riparian/floodplain wetland habitat for migratory bird conservation
- Manage for fish, wildlife and native plant resources



Sacramento River National Wildlife Refuge

- 10,235 acres acquired scattered along a 77 miles reach of the Sacramento River
- Currently 29 Units
- Existing land uses of riparian habitat, restored riparian habitat, production orchards, row crops & fallow lands











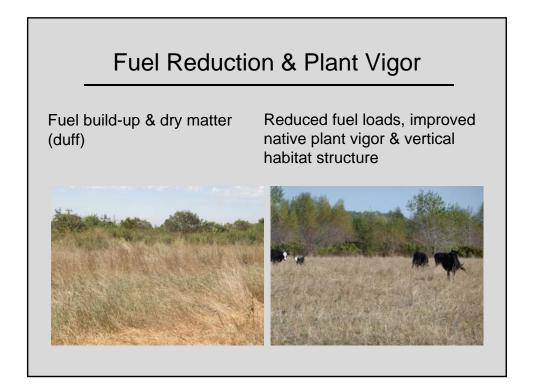


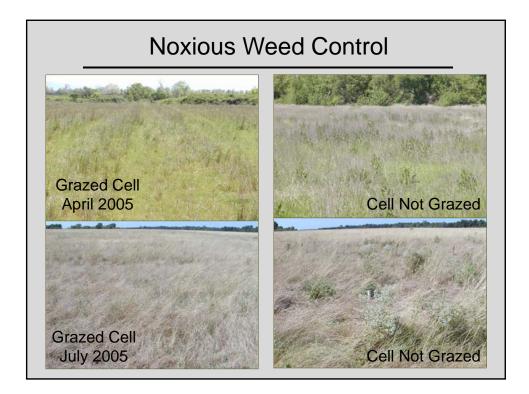
Sacramento River NWR Acreage			
Natural Riparian Lands forest, scrub & herb land, sand &	4,436 gravel		
Agriculture Lands Walnut & dryland crop	520		
Restoration Lands cultivation & natural restoration	5,279		
Total Acres	10,235		







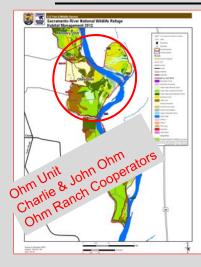




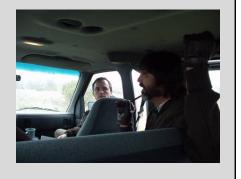


Annual Grazing Planning Meetings

Sacramento River NWR & Llano Seco Unit



Prescribed (Rx) grazing plans developed with the cooperator, by Refuge unit & individual tract



The Co		gement Agreement (CLMA Vildlife Refuge–Sul Norte	A) with Llano Seco Rancho for c Unit.	cattle grazing appli	es to specif	ied areas of	f the
FY 201 Refuge Tract	3 CATTLE GRAZING P Habitat/Vegetation	LAN FOR THE SUL NORTE U Grazing Objective ^{1,2}	JNIT Prescribed Field Condition	Target Date for Prescribed	Turn-in Date ³	Turn-out Date	AUM
T1	Mixed Riparian Forest (192 total ac; approx. 60 forage ac)	 Reduction of hazardous fuels Zhanance native grassland Control non-native invasive plant species Improve nesting habitat for grassland nesting birds Improve foraging habitat for grassland species 	Reduction of hazardous fuels by 60% and treatment of nonnative annual grasses Variable 3–8-inch residual dry matter (RDM) on annual grasses height depending on soils:	Field Condition June–July	May 15 (w/ T3.1)	July 15	
T3.1	Native Perennial Grassland approx. (86 ac)	Grazing on hold until native grasses are established and non-native grasses require control	Variable 3–6 inches residual dry matter on annual grasses, remove/reduce thatch layer build- up	June–July	May 15 (w/T1)	July 15	
T3.2	Elderberry Savanna, and Valley Oak woodland Annual Grasses/Forbs (approx. 210 ac)	 Reduction of hazardous fuels Control non-native invasive plant species Improve grass/sedge nesting substrate 	Reduction of hazardous fuels by 60%- reduce woody foliage to 6 feet above ground with 1-3 inch residual dry matter (RDM) on annual grasses, remove/reduce thatch layer build-up	July	June 15 (open gate between T1/T3.1 & T3.2)	July 15	

FY 2013 CATT Refuge Todd Island, LAB T2,T 3.1 & T3.2	Projects 3 T1.1, 1) Install fer	nces, cattle gates, water place salt blocks for	ECTS FOR THE LA B Materials ¹ 1) Hot-wire and charging system, water trough, salt	ARRANCA/TODD ISLAND UNITS Responsibilities ² 1) Permitee provides materials, constructs and maintains gates.	Concerns / Issues & Notes 1) Un-grazed Control Plots:
			blocks	foncing and cattle water systems and salt blocks. 2) Refuge provides solar pump and water storage tanks.	monitoring vegetation & bird response to cattle grazing to improve habitat structure and native forb germination conditions, to reduce non-native annual plant thatch, and reduce hazardous fuels. to reduce non-native annual plant thatch and reduce hazardous fuels 2) Fence cattle out of neighboring properties 3) Area is open to public use including hunting LAB T3.2 is control plot for grazing program monitoring.
for over-land appl equivalents.	lications; Rodeo or Aqu			ildlife Refuge lands. Approved herbicides ions; 2-4,D; Garlon; Transline; Telar; Hab	

	to River NWR e — 4 Cooperators
Natural Riparian Lands forest, scrub & herb lar sand & gravel	1,040
Agriculture Lands dryland crop	214
Restoration Lands cultivation restoration	1,584
Total Acres	2,838 (28% of Refuge Total Acres)



Timing of grazing

- Public use conflicts
- Targeted lifecycle of weed •
- Flood frequency

Fencing

- Interior fencing and movements
- Hardwire fences on borders

Water source

- River access/trespass
- Modifying facilities

