LOWER DESCHUTES FIRE RESTORATION

Jeremy Thompson

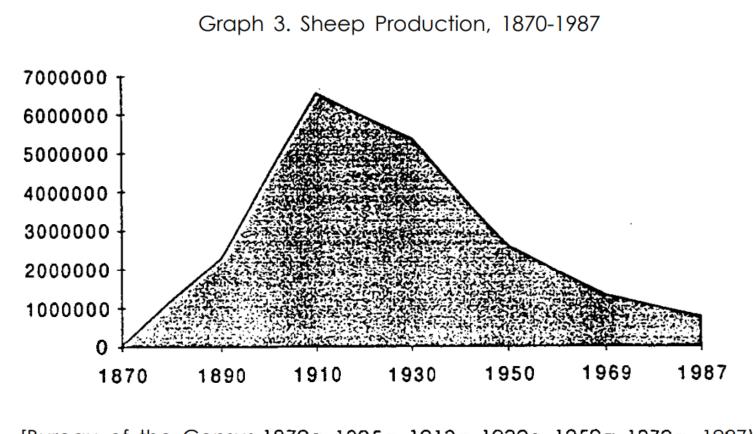
Oregon Department of Fish and Wildlife

July 2019

History of Lower Deschutes

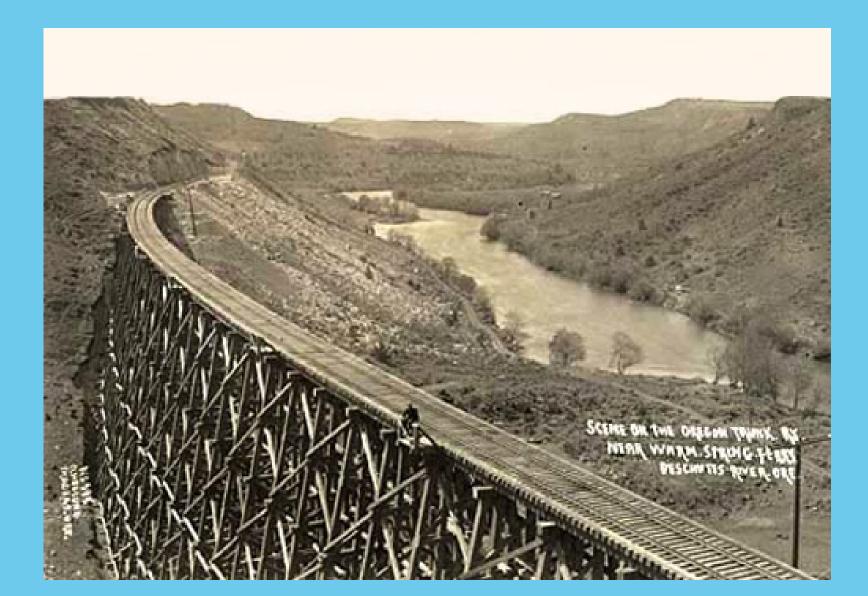
-"Bunch Grass Country"
-Heavily utilized by livestock
-Conversion to public trust

History of Lower Deschutes



[Bureau of the Census 1872a, 1895a, 1913a, 1932a, 1952a, 1972a, 1987]

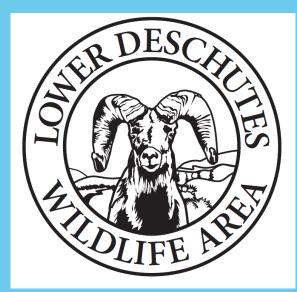
History of Lower Deschutes



Lower Deschutes Wildlife Area

OREGON FOUNDATION

Funding statewide conservation since 1981



TRUST for PUBLIC LAND

Fire return

Vegetation Community (Potential Natural	Fire severity*	Fire regime characteristics					
Vegetation Group)		Percent of fires	Mean interval (years)		Maximum interval (years)		
Pacific Northwest Grassland							
Alpine and subalpine meadows and	Replacement	68%	350	200	500		
<u>grasslands</u>	Mixed	32%	750	500	>1,000		
<u>Bluebunch wheatgrass</u>	Replacement	47%	18	5	20		
	Mixed	53%	16	5	20		
Idaho fescue grasslands	Replacement	76%	40				
	Mixed	24%	125				
Marsh	Replacement	74%	7				
	Mixed	26%	20				

Recent Fires

Date	Location	County	Cause	Date	Location	County	Cause
8/11/1984	End of Road	Sherman	Campers	6/25/2007	Colorado Rapids	Wasco	Equipment
	Rattlesnake			9/2/2007	Colorado Rapids	Sherman	Gas Stove
7/9/1985	Rapids	Wasco	Cigarette	7/3/2008	Deadhorse	Sherman	Equipment
7/20/1985	Lockit	Wasco	Unknown	8/7/2008			Lightning
8/29/1985	Moody	Wasco	Unknown		Fall Canyon	Wasco	Railroad
7/9/1991	Moody	Wasco	Railroad		, Washout Rapid	Wasco	Equipment
10/9/1993	Colorado Rapids	Sherman	Match	6/3/2013	·	Wasco	Human
6/30/1994	Mouth	Sherman	Railroad	7/24/2015	Kunz	Wasco	Equipment
8/14/1996	Celilo	Wasco	Railroad	5/28/2016	Deadhorse	Sherman	Human
Apr-99	Mouth	Sherman	Equipment	8/10/2016	Moody	Sherman	Unknown
Jun-o6	Kloan Road	Wasco	Unknown	7/18/2018	North of Bull Run	Both	Human
6/17/2007	Mouth	Sherman	Unknown	7/26/2018	South of Bull Run	Both	Equipment



Effects of Cheatgrass



Effects of Cheatgrass

- -Early germination-Shallow roots
- -Reduces run-off
- -High seed count
- -Cures early
- -Continuous canopy

Past Treatments





	Plot					
% Basal Cover	1 2 oz seed	2 6 oz seed	3 10 oz seed	4 2 OZ	5 6 oz	6 10 oz
Grasses	80	70	38	55	15	10
Forbs	6	10	50	5	30	40
Shrubs	1	5	2	15	5	5
Litter	8	10	10	10	15	10
Bare Ground	5	5	5	15	35	35

2 oz/ac Plateau Seeded

2 oz/ac Plateau

6 oz/ac Plateau Seeded

6 oz/ac Plateau

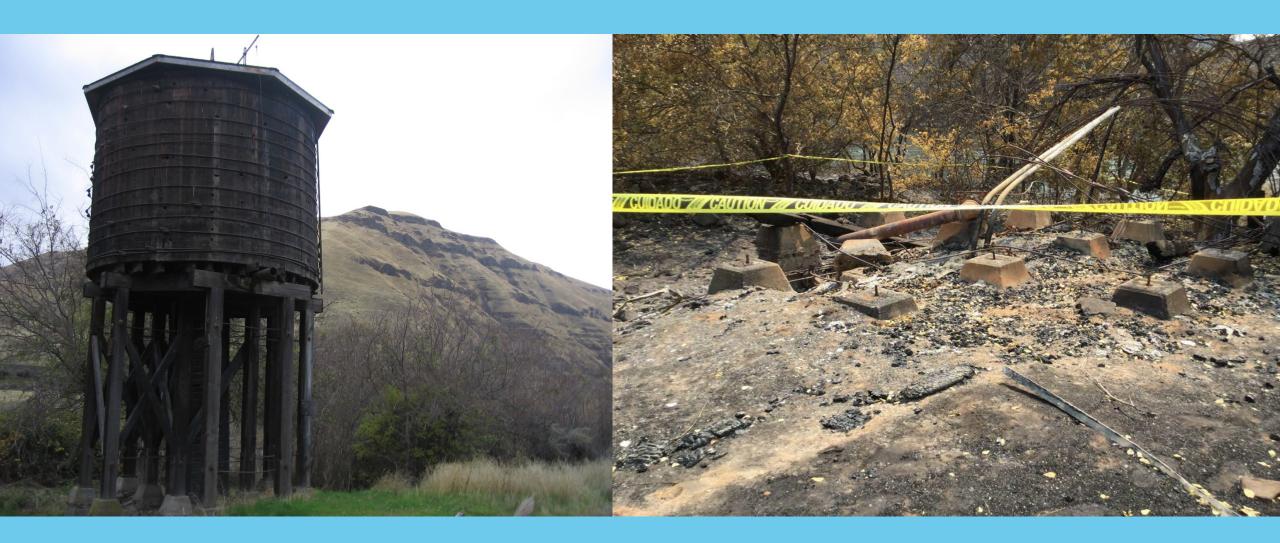
10 oz/ac Plateau Seeded

10 oz/ac Plateau









Fire Restoration Plan

-Work with partner agencies for landscape approach
-Encourage re-establishment of native grasses
-Assess impact to riparian and shrub communities
-Develop plan for limiting and mitigating future fire impacts

Landscape Approach

-Federal Lands - Plateau application above Maupin -Private Lands - Plateau to approximately 20,000 acres 2018 - Seeded 1000 acres 2018 -Seeding 20,000 acres 2019 - State Lands -Spraying 10,00 acres fall 2019 - Seeding approximately 5000 acres 2020

LDMA Restoration Plan

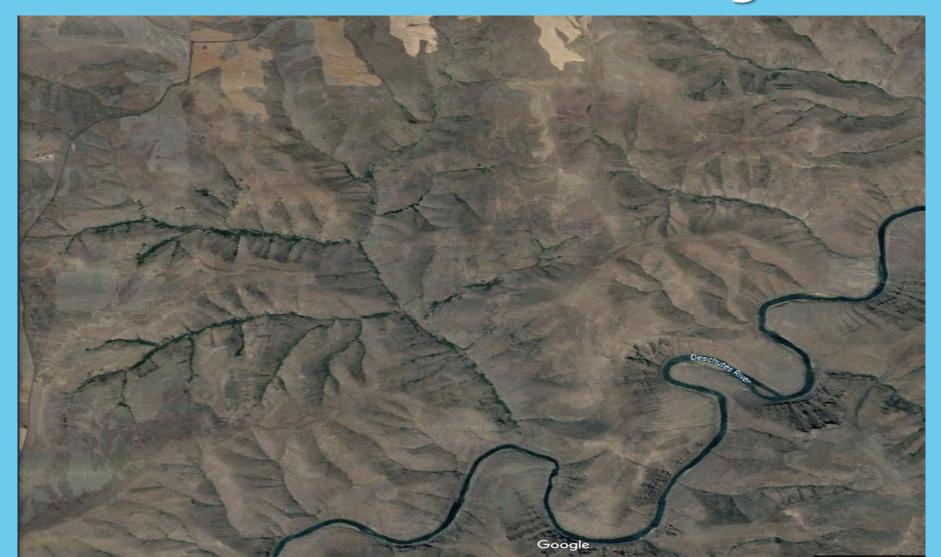
- 7 oz/ac Imazapic
- Seed in mapped areas
- -Funding through Federal Restoration monies, match from OWF
- -Monitor treatment success for future needs

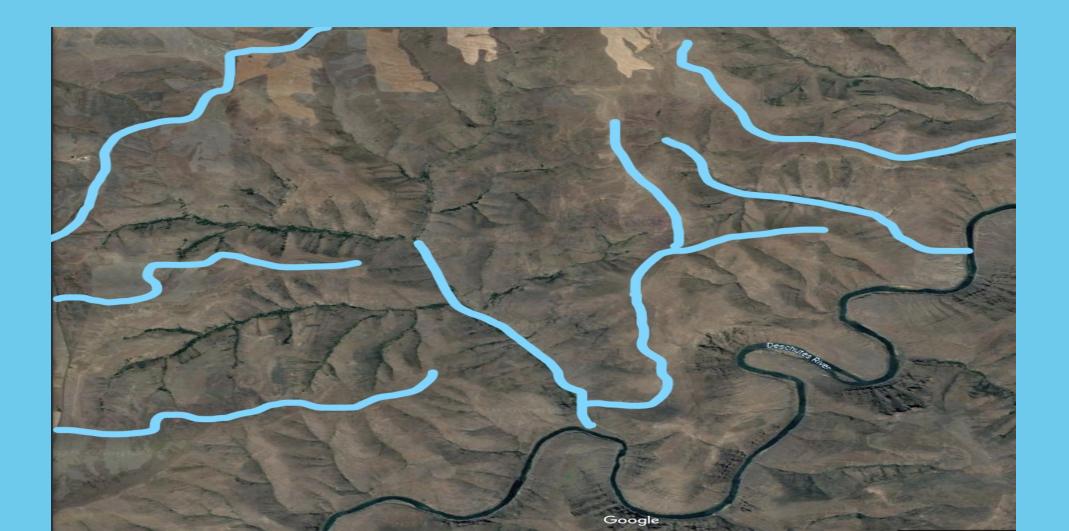






Forage kochia firebreak. Photo by Mike Pellant.









Questions?

