

## FRRL Rangeland Field Tour 2016

Private and public clientele of the Forage and Range Research Laboratory gathered on two tours held between June 1-3 (15 participants) and June 7-9 (12 participants), 2016 to study the effects of invasive annual grass invasion in research plots in Snowville, Skull Valley, and Nephi, Utah. Additionally, tour participants were shown research plots in Cache Valley which featured native and non-native grasses and legumes/forbs that were being evaluated for their agronomic potential for use in rangeland, pasture, and turf grass applications. Tour participants were shown seed increase fields and seed cleaning facilities, as well as, research plots for genetic analysis of various plant materials. It became clear to the participants that seedings in harsh environments that are often changed by invasive grass invasion and repeated wildfires and/or human cultural manipulation (known as novel ecosystems), require unique and improved plant materials and management practices for ecological site restoration to occur. This is especially true for sites enjoying 7-12 inches annual precipitation.

### Tour Participants:

#### 2016 Field Tour #1

<b>Bill</b>	<b>Agnew</b>	Agnew Env. Consulting	Sandy
<b>Rob</b>	<b>Bennett</b>	BLM	Boise
<b>Orson</b>	<b>Boyce</b>	Utah Seed	Bothwell
<b>Kurt &amp; Sandy</b>	<b>Fiegner</b>	K&S Farms	Madras
<b>Steve</b>	<b>Jirik</b>	BLM	Boise
<b>Dan</b>	<b>Mummey</b>	MPG Ranch	Missoula
<b>Mark</b>	<b>Mustoe</b>	Clearwater Seed	Spokane
<b>Orlin</b>	<b>Reinbold</b>	Landmark Seed	Spokane
<b>Gib</b>	<b>Rokich</b>	SLC International Airport	SLC
<b>Eric</b>	<b>Thacker</b>	USU extension	Logan
<b>Kevin</b>	<b>Jensen</b>	PM development	ARS
<b>Tom</b>	<b>Jones</b>	PM development	ARS
<b>Rob</b>	<b>Smith</b>	stock seed production	ARS
<b>Jack</b>	<b>Staub</b>	PM development	ARS
<b>Joe</b>	<b>Robins</b>	PM development	ARS
<b>Shaun</b>	<b>Bushman</b>	molecular genetics	ARS
<b>Mike</b>	<b>Peel</b>	PM development	ARS

#### 2016 Field Tour #2

<b>Lara</b>	<b>Deresary</b>	Eastern NV Landscape Coalition	Ely/Moab
<b>Rob</b>	<b>Fiegner</b>	Institute for Applied Ecology	Corvallis
<b>Tom</b>	<b>Glass</b>	High Mountain Nursery	Salt Lake
<b>Erica</b>	<b>Husse</b>	BLM	Ely
<b>Amy</b>	<b>Stillman</b>	BLM	Boise
<b>Kevin</b>	<b>Jensen</b>	PM development	ARS
<b>Tom</b>	<b>Jones</b>	PM development	ARS
<b>Steve</b>	<b>Larson</b>	molecular genetics	ARS
<b>Doug</b>	<b>Johnson</b>	PM development	ARS
<b>Blair</b>	<b>Waldron</b>	PM development	ARS
<b>Shaun</b>	<b>Bushman</b>	molecular genetics	ARS
<b>Mike</b>	<b>Peel</b>	PM development	ARS



Dr. Kevin Jensen provides information on research plots on the Curlew Valley National Grasslands (near Snowville UT; annual precipitation = 10 inches annually). Participants noted the extent of invasive annual grass invasion into perennial grasses over 10-30 years.



Dr. Kevin Jensen explains the reasons for the different levels of invasive annual grass invasion into seed plots of native and non-native grasses on research plots in Skull Valley (south of the Bonneville Salt Flats annual precipitation = 8 inches annually). Participants noted the effect of herbicide and improved plant materials on the establishment and persistence in a 5-year old seeding.



Dr. Thomas Jones shows and explains to the participants differences in stand establishment and persistence in 3-year old seeding of perennial native and non-native grasses and native legumes in research plots at Nephi UT (annual precipitation = 15 inches annually).