

# FORAGE BACKED BY RESEARCH

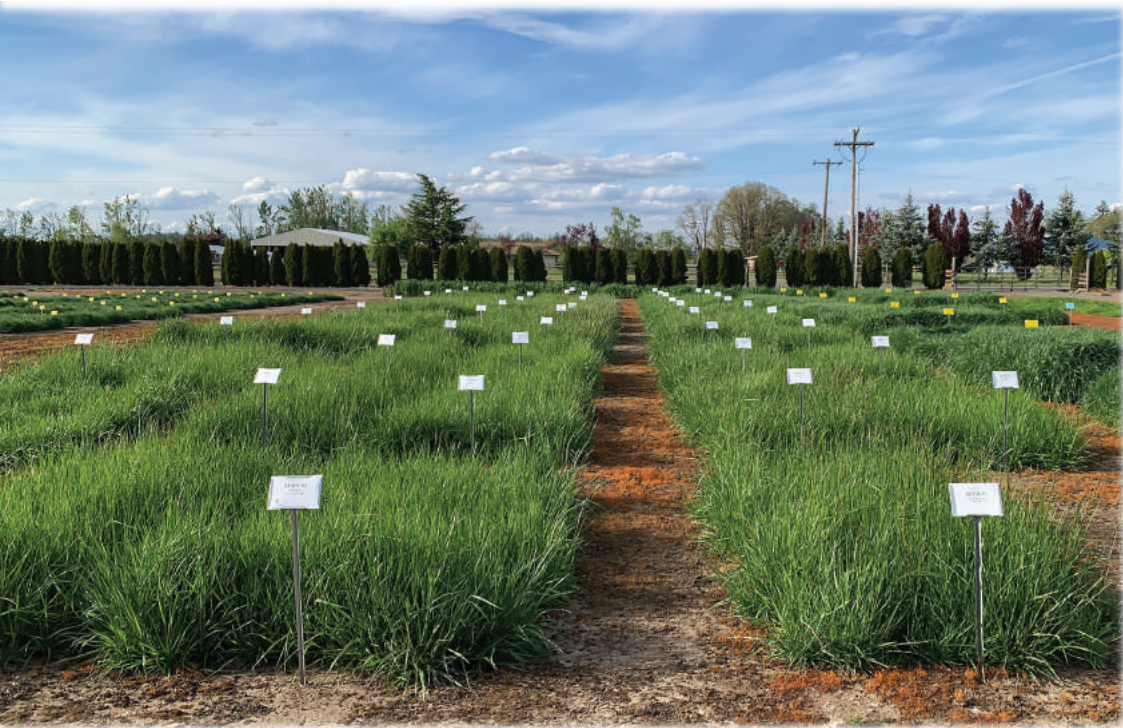


Successful breeding efforts for over 20 years

Festulium	Soft Leaf Tall Fescue	Teff
Orchardgrass	Soft Leaved Redtop Bent	Chicory
Forage Alfalfa	Diploid Perennial Ryegrass	Black Oats
Italian Ryegrass	Tetraploid Annual Ryegrass	Red Clover
Forage Bluegrass	Tetraploid Perennial Ryegrass	Bermudagrass



# Forage Trial - PST West 2021





# Black Oats Breeding Program

*"Blackoats are used in Europe and South America quite a bit to protect the soil. They also help suppress weeds, and can even work as a nematicide to help if you have issues with nematodes."*

*- Austin Fricker, VP of Research*





# Black Oats Breeding Program

## Black Oats Benefits

- ◆ High Quality Cereal Grain
- ◆ Dense Sword
- ◆ High Tillering Capacity
- ◆ Lower Seeding Rates
- ◆ More Biomass





# Teff Breeding Program

*“Our Teff breeding program is something we’re really excited about. It’s pretty unique for us and a different species that we haven’t worked with in the past. We were able to get collections from the United States germplasm repository, and a few different collections from South Africa. We screened them in Oregon to find something that would be stable that we could move forward with. Next step was to evaluate for seed yield and then for different traits such as salt tolerance, grain and forage yield. And over the past six years, we’ve had a lot of success. Last summer we harvested our first commercial fields and will have commercial availability in fall of 2021.”*

*- Austin Fricker, VP of Research*



Kauai, HI



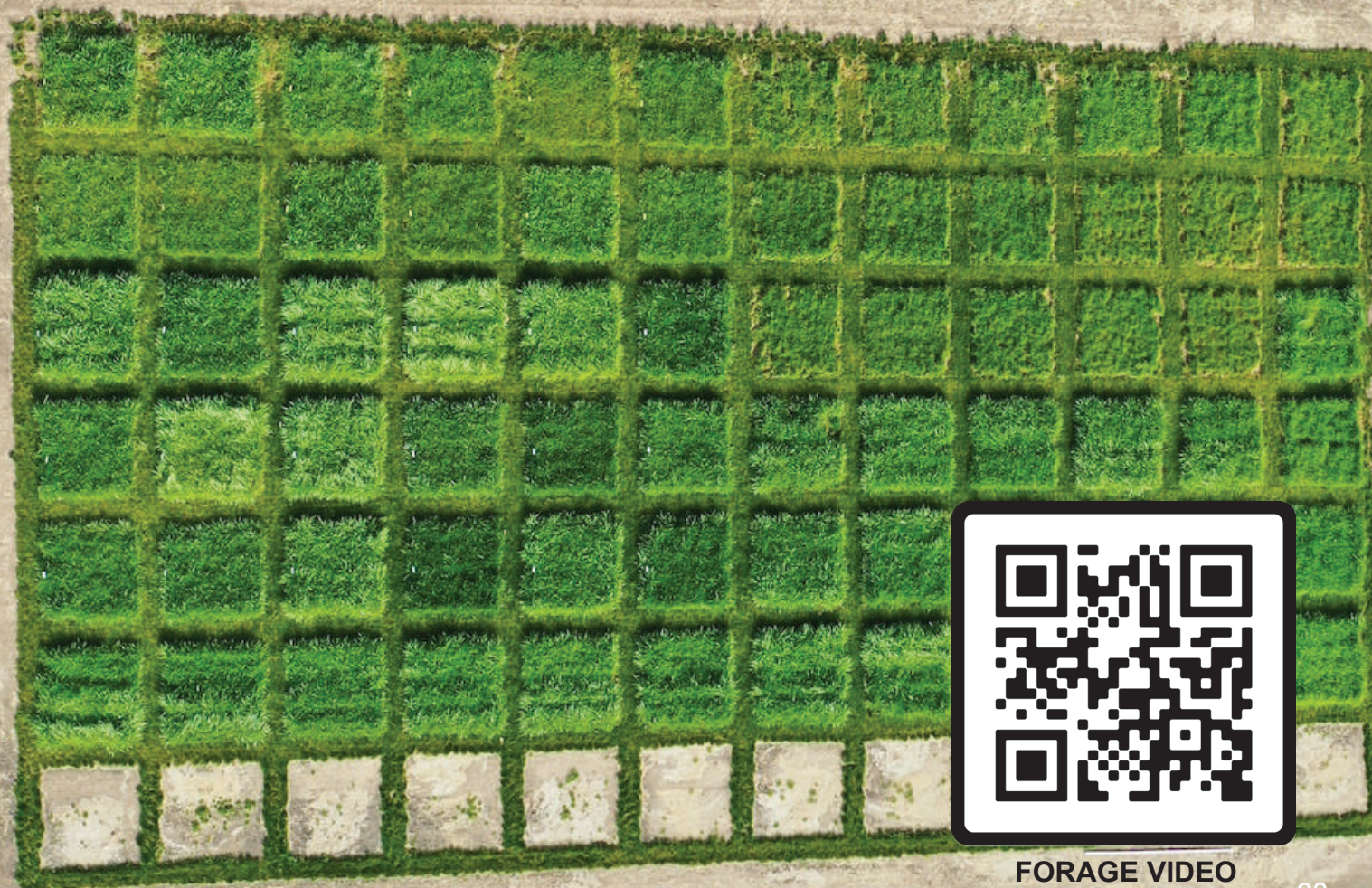
Kauai, HI



Canby, OR



# Forage Trial - PST West 2020



FORAGE VIDEO  
SCAN ME



FALL 2018 - 2019  
Dr. Joal (Joe) Vendramini

**Table 1.** Herbage accumulation of different annual ryegrass cultivars in January, March, and April 2019.

Month	January	March	April	Total
	Herbage Accumulation (Lb DM/Acre)			
<b>Cultivar</b>				
Attain	800	1344	1892	4036 bc†
Jumbo	670	1206	1572	3448 d
3MEX (TETRAGRANDE)	880	1323	1520	3723 cd
*PST_DRSS	1050	1574	1753	4377 ab
SE	140	101	260	153

**Table 2.** Crude protein, acid detergent fiber (ADF), neutral detergent fiber (NDF), and in vitro digestible organic matter (IVDOM) concentrations of different annual ryegrass cultivars in January, March, and April 2020.

<b>Cultivar</b>	Month		
	January	March	April
	Crude Protein (%)		
Attain	10.6	15.3	13.2
Jumbo	10.3	15.5	13.2
Tetragrande	10.8	16.5	13.3
PST_DRSS	10.5	18.1	13.3
SE		0.9	
	ADF (%)		
Attain	23	27	41
Jumbo	23	27	41
Tetragrande	23	28	41
PST_DRSS	23	29	41
SE		1.0	
	NDF (%)		
Attain	38	47	64
Jumbo	36	47	63
Tetragrande	38	49	63
PST_DRSS	37	51	64
SE		1.3	
	IVDOM (%)		
Attain	88	82	66
Jumbo	88	83	70
Tetragrande	88	80	72
PST_DRSS	88	82	70
SE		2.6	