

Grass Variety Performance Trials

Charlie Brummer, Rob Wilson, Darrin Culp, and Tom Getts

Trials planted in September 2020

Data from 2021

Full irrigation

Nitrogen application 100 lb/acre in spring and after each harvest at 75 lb/acre

Yield= tons dry matter/acre; Heading = days past May 1; Vigor = 10 is best; stand % June 2021

Orchardgrass Trial

Cultivar	2021 Total	1st	2nd	3rd	Heading	Vigor	Stand %
OG-Quickdraw HSG	11.9	4.9	3.4	3.8	30	8.4	100
OG-Endurance	11.3	3.7	3.4	4.1	33	8.0	98
OG-Potomac	11.2	4.0	3.4	3.7	38	7.9	98
OG-Extend	11.2	4.4	3.3	3.5	29	7.9	96
OG-Baridana	11.1	4.0	3.4	3.8	33	8.0	97
OG-Rushmore II	11.1	4.1	3.5	3.6	33	8.0	99
OG-Profit	11.1	3.8	3.2	4.0	30	8.1	96
OG-Icon	11.1	4.3	3.4	3.4	27	8.0	99
OG-Alpine II	11.1	3.7	3.4	3.9	36	7.9	100
OG-Barlegrow	11.1	3.7	3.4	4.0	38	7.5	93
OG-Mammoth	11.0	4.3	3.4	3.4	27	8.5	99
OG-Latar	10.9	4.9	3.1	3.0	28	8.8	96
OG-Persist	10.9	4.3	3.3	3.3	28	8.0	97
OG-Hallmark	10.9	4.6	3.0	3.1	30	8.1	97
OG-Crown Royale	10.9	4.4	3.1	3.3	30	8.5	100
OG-Husar	10.7	3.4	3.5	3.7	38	7.5	86
OG-Bighorn	10.7	3.7	3.3	3.7	35	7.7	98
OG-Pennlate	10.7	4.3	3.3	3.2	31	8.5	100
OG-Paiute	10.7	3.8	3.3	3.7	26	8.0	96
OG-Niva	10.7	3.8	3.1	3.6	33	8.0	99
OG-Tekapo	10.7	3.8	3.5	3.5	32	8.0	97
OG-Echelon	10.6	3.9	3.2	3.6	34	7.8	99
OG-Intensiv	10.5	4.2	3.0	3.4	37	8.0	99
OG-Devour	10.5	3.1	3.3	4.1	36	7.8	94
OG-Harvestar	10.5	3.8	3.3	3.4	32	8.0	99
OG-HLR Blend	10.4	3.4	3.0	3.9	38	8.0	87
OG-Baraula	10.0	3.4	2.9	3.6	40	8.0	98
OG-Amba	9.5	3.9	2.5	3.1	28	8.0	96
Orchardgrass Mean	10.8	4.0	3.2	3.6	33	8.0	97
LSD (5%)	0.9	0.6	0.4	0.5	4	0.5	9

Tall Fescue, Meadow Fescue and Other Species Trial

Cultivar	2021 Total	1st	2nd	3rd	Heading	Vigor	Stand %
TF-Jesup MaxQ	14.4	6.6	4.3	3.4	26	9.1	98
TF-Tuscany II	14.1	6.4	4.1	3.6	28	9.0	100
TF-Kora	14.1	6.1	4.3	3.6	27	9.6	99
TF-Hymark	14.1	7.0	3.9	3.2	25	9.1	99
TF-FSG 402TF	14.1	6.6	4.0	3.5	25	8.6	99
TF-Atlas II	14.0	6.5	3.9	3.5	26	9.0	99
TF-Lacefield MaxQ II	14.0	6.4	4.1	3.3	27	9.4	100
TF-NF1100	13.9	6.3	4.1	3.4	28	9.1	100
TF-Teton II	13.9	6.1	4.4	3.4	24	9.2	100
TF-Texoma MaxQ II	13.9	6.7	4.0	3.3	28	9.0	99
TF-Goliath	13.8	6.4	4.1	3.2	25	9.2	98
TF-Drover	13.6	5.9	4.0	3.7	23	9.2	99
TF-Tower Protek	13.5	6.2	3.6	3.6	29	9.4	100
TF-Jesup MaxQ II	13.5	6.5	4.2	3.0	25	8.9	98
TF-Cajun II	13.3	6.0	4.3	3.0	25	8.9	96
TF-Martin II Protek	13.3	6.1	4.0	3.3	25	9.0	97
TF-Atlas	13.3	6.3	4.0	3.1	26	9.1	99
TF-Barelite	13.3	5.7	4.1	3.5	32	9.0	100
TF-Bronson	13.2	5.0	4.6	3.7	26	8.5	97
TF-Rustler	13.2	6.1	4.0	3.2	20	9.2	99
TF-Fawn	13.2	5.7	4.2	3.3	20	9.3	99
TF-Lipalma	13.1	5.4	3.9	3.7	26	9.0	99
TF-Baroptima Plus E34	13.0	5.8	3.9	3.4	30	9.3	100
TF-Barolex	12.8	5.3	3.8	3.8	30	8.8	94
TF-Estancia	12.4	5.7	3.8	2.9	27	9.2	99
TF-Armory	12.1	6.2	2.8	3.2	28	8.7	95
TF-Bariane	12.1	4.9	3.6	3.5	34	9.1	98
Tall Fescue Mean	13.4	6.1	4.0	3.4	26	9.1	98
MB-Cache	8.3	1.9	3.5	3.0	20	7.4	54
MB-Macbeth	10.5	5.1	3.5	2.0	20	8.6	89
Meadow Bromegrass	9.4	3.5	3.5	2.5	20	8.0	71
MF-Azov	11.0	5.5	3.1	2.4	31	8.7	97
MF-Driftless	10.8	5.2	3.1	2.6	34	9.7	100
MF-Hidden Valley	10.3	4.4	3.6	2.3	34	9.0	98
MF-KF Galaxy	11.0	5.1	3.3	2.7	30	9.0	98
MF-Liherald	11.6	5.5	3.4	2.8	28	8.7	96
MF-Pradel	10.8	4.4	3.6	2.8	32	8.7	96
MF-Preval	11.3	5.5	2.7	3.0	30	9.5	100
MF-Tetrax	8.2	1.9	3.4	3.1	35	8.8	61
Meadow Fescue Mean	10.6	4.7	3.3	2.7	32	9.0	93
RC-Chiefton	10.0	1.5	5.8	2.7	55	5.8	71
RC-Palaton	10.3	1.7	5.8	2.9	55	6.0	65
Reed Canarygrass	10.1	1.6	5.8	2.8	55	5.9	68
TW-Jose	8.9	4.3	2.6	1.9	55	7.8	90
TW-Plainsman	9.8	5.8	1.4	2.6	55	8.2	85
W-NF8000	9.4	4.0	3.4	1.9	55	7.0	92
Wheatgrasses	9.4	4.7	2.5	2.2	55	7.6	89
LSD (all species)	1.05	0.77	0.6	0.47	2	0.6	8

Timothy and Summer Dormant Tall Fescue Trial

Cultivar	2021 Total	1st	2nd	Heading	Vigor	Stand %
TM-KY-Early	10.8	5.9	4.9	39	6.9	82
TM-Conquest	10.0	5.6	4.5	37	6.2	79
TM-Claire	9.6	4.7	4.9	41	5.5	70
TM-Zenyatta	9.6	4.9	4.5	48	6.2	68
TM-Barfleo	9.5	5.0	4.2	47	6.4	79
TM-Lischka	9.3	5.3	4.0	46	6.9	67
TM-Basho	8.8	5.0	3.7	48	6.7	71
TM-Aurora	8.7	4.9	3.8	40	6.0	69
TM-Presto	7.1	4.4	2.8	49	6.5	76
TM-Tuuka	6.8	4.4	2.6	50	6.9	77
TM-Climax	6.7	4.5	2.2	50	7.2	80
TM-Barpenta	6.7	4.3	2.5	51	6.6	62
TM-Baronaise	6.2	4.0	2.4	50	6.8	80
Timothy Mean	8.4	4.8	3.6	46	6.5	74
SDTF-Flecha	8.9	5.2	3.8	25	9.1	95
SDTF-Chisholm	10.2	5.7	4.3	25	9.1	81
Summer Dormant TF	9.5	5.5	4.1	25	9.1	88
LSD (TM & SDTF)	1.25	0.91	0.71	1.3	0.72	10

[Blue] alfalfa aphid management

Ian Grettenberger and Rob Wilson

- Blue alfalfa aphid has been problematic in the Intermountain region in alfalfa.
- Heavily infested alfalfa can stunt stems and plants and turn leaves necrotic due to their toxic saliva, hampering yields
- Aphids have colonized alfalfa just breaking dormancy in recent years, complicating management.



Jack Kelly Clark,
UCIPM Program

Management with insecticides

- The look-alike aphid species the pea aphid has different susceptibility to insecticides (see pyrethroids), emphasizing the importance of proper identification (check those antennae! See UCIPM for ID guide).
- We conducted a trial to evaluate different materials, including registered and unregistered materials when applied to alfalfa just breaking dormancy (3-5 in. at application). Most aphids were blue alfalfa aphid.
- Overall, a number of the newer, “selective”, materials performed very well, suppressing aphids through 21 DAT. By 28 DAT, aphid populations were low across the board (% of untreated is presented).
- Several broad spectrum materials did not suppress aphids and spiked populations at 21 DAT, likely due to disruption of natural enemies, which has been shown in previous trials.

Trt #	Product	Rate	Unit
1	Endigo ZCX	4.5	fl oz/ac
2	Dimethoate 4EC+Warrior II	16+1.92	fl oz/ac + fl oz/ac
3	Warrior II	1.92	fl oz/ac
4	* Transform WG	1	oz/ac
5	Sefina	6	fl oz/ac
6	Sefina	10	fl oz/ac
7	* PQZ	2.4	fl oz/ac
8	Sivanto 200SL	7	fl oz/ac
9	Sivanto 200SL	10	fl oz/ac
10	† Beleaf 50SG	2.8	oz/ac
11	Untreated	-	-

Note: * indicate unregistered treatments, while † indicates a 62 day PHI



