



2023 Fusarium Wilt of Lettuce Field Day

Fusarium wilt of lettuce, caused by the fungal pathogen *Fusarium oxysporum* f.sp. *lactucae*, is severely impacting productivity and thus, the competitiveness of the Arizona lettuce industry. Since 2015, the Yuma Center of Excellence for Desert Agriculture (YCEDA) has managed annual trials evaluating commercial and pre-commercial lettuce cultivars for resistance to *Fusarium* wilt. YCEDA is funded by the Arizona Specialty Crop Block Grant Program to conduct Fusarium wilt of lettuce field trials through the 2023-2024 season, additional funding will be applied for to continue these trials if the industry finds this work valuable.

In 2023, 22 iceberg and 23 romaine cultivars were planted. Please see the field map to guide you through the trial. You are welcome to cut lettuce from the iceberg plots, and lettuce from the first 10 feet at the south end of the romaine trial. The iceberg cultivars were evaluated to provide data for the field day, the romaine cultivar data is still being evaluated. Results will be presented at the Southwest Ag Summit and will be available online at desertagsolutions.org on the Fusarium project page. You can use the QR code to easily access this website.

Iceberg Trial:

Wet Date: 9/22/2023

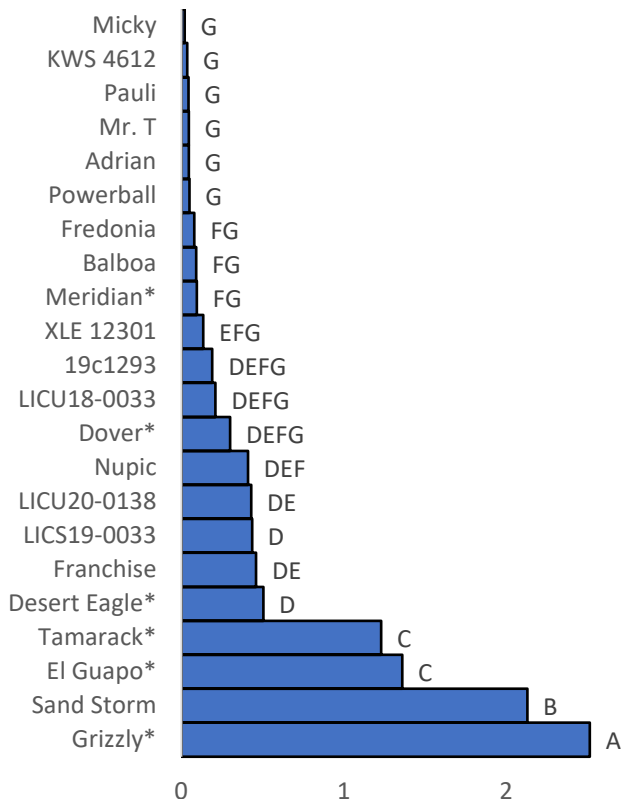
Evaluation Date: 11/27-11/28/2023

Disease Severity: 0-4 Disease index scale: 0 = No Disease, 4 = Dead or nearly dead

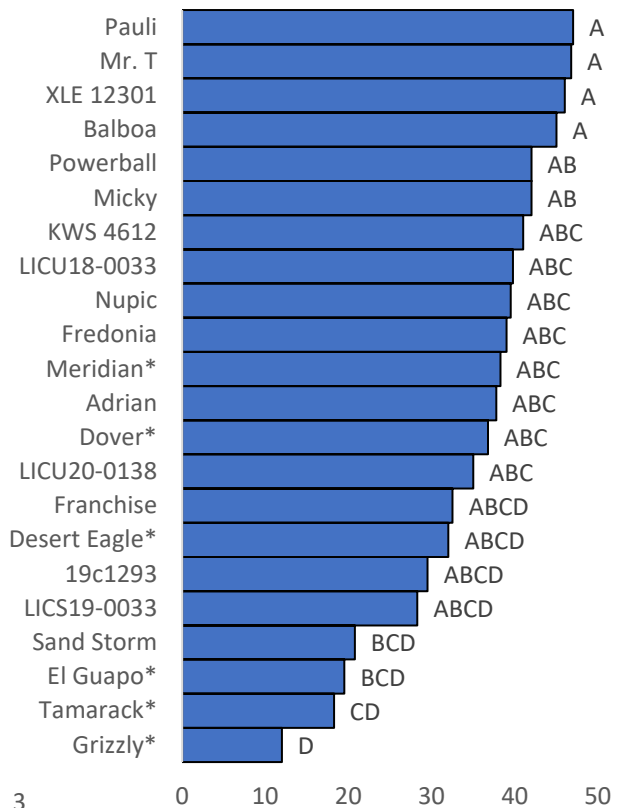
Cultivars with the same letter are not significantly different ($P \leq 0.05$, Tukey's HSD)



Iceberg Disease Severity



Iceberg Marketable Heads



Field Map

Notes

	Block 1	Block 2	Block 3	Block 4
	1 Fredonia	12 Nupic	21 LICU18-0033	9 El Guapo
	2 Tamarack	22 Grizzly	14 Adrian	21 LICU18-0033
	3 Franchise	7 Dover	16 Micky	11 KWS 4612
	4 19c1293	15 Balboa	22 Grizzly	14 Adrian
	5 Meridian	17 Pauli	3 Franchise	18 Mr. T
	6 XLE 12301	21 LICU18-0033	7 Dover	13 Sand Storm
	7 Dover	18 Mr. T	5 Meridian	2 Tamarack
	8 Powerball	19 LIC19-0033	15 Balboa	16 Micky
	9 El Guapo	8 Powerball	11 KWS 4612	12 Nupic
	10 Desert Eagle	4 19c1293	6 XLE 12301	1 Fredonia
	11 KWS 4612	14 Adrian	20 LICU20-0138	15 Balboa
	12 Nupic	10 Desert Eagle	1 Fredonia	20 LICU20-0138
	13 Sand Storm	13 Sand Storm	8 Powerball	17 Pauli
	14 Adrian	5 Meridian	19 LIC19-0033	19 LIC19-0033
	15 Balboa	2 Tamarack	4 19c1293	3 Franchise
	16 Micky	11 KWS 4612	10 Desert Eagle	6 XLE 12301
	17 Pauli	20 LICU20-0138	12 Nupic	4 19c1293
	18 Mr. T	3 Franchise	9 El Guapo	8 Powerball
	19 LIC19-0033	1 Fredonia	13 Sand Storm	7 Dover
	20 LICU20-0138	6 XLE 12301	2 Tamarack	22 Grizzly
	21 LICU18-0033	16 Micky	17 Pauli	5 Meridian
	22 Grizzly	9 El Guapo	18 Mr. T	10 Desert Eagle

Iceberg

	23 Laredo	33 Boronda	37 ROM 21616	39 CARIZZO
	24 Placer	31 Valley Heart	43 Copius	24 Placer
	25 Fort Romie	27 Adicamp	40 PINION	34 Grackle
	26 Sunbelt	25 Fort Romie	41 Pulse/18503	29 Vicious
	27 Adicamp	32 Bondi	23 Laredo	27 Adicamp
	28 Momentous	30 Luminous	39 CARIZZO	38 ROM 22804
	29 Vicious	41 Pulse/18503	32 Bondi	28 Momentous
	30 Luminous	43 Copius	30 Luminous	40 PINION
	31 Valley Heart	26 Sunbelt	35 Del Sol	35 Del Sol
	32 Bondi	45 Jammin RZ	36 Duquesne	45 Jammin RZ
	33 Boronda	42 Poulidor	38 ROM 22804	43 Copius
	34 Grackle	23 Laredo	44 Farmin RZ	41 Pulse/18503
	35 Del Sol	44 Farmin RZ	29 Vicious	30 Luminous
	36 Duquesne	38 ROM 22804	25 Fort Romie	26 Sunbelt
	37 ROM 21616	29 Vicious	33 Boronda	37 ROM 21616
	38 ROM 22804	34 Grackle	24 Placer	31 Valley Heart
	39 CARIZZO	35 Del Sol	34 Grackle	44 Farmin RZ
	40 PINION	40 PINION	42 Poulidor	42 Poulidor
	41 Pulse/18503	37 ROM 21616	31 Valley Heart	25 Fort Romie
	42 Poulidor	36 Duquesne	27 Adicamp	23 Laredo
	43 Copius	39 CARIZZO	45 Jammin RZ	36 Duquesne
	44 Farmin RZ	24 Placer	28 Momentous	33 Boronda
	45 Jammin RZ	28 Momentous	26 Sunbelt	32 Bondi

Romaine

