

Joint Performance Trials 2017 Cohort

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JPT Cultivar Entries (26 genotypes)

All of these were winners from prior replicated performance trials

Entry Name	Breeding Program	Established
OSU 541.147 (The Beast)	Oregon State University	2017/2018
Grand Traverse	Cecil Ferris	2017/2018
Aldara	Grimo Nut Nursery	2017/2018
Andrew	Grimo Nut Nursery	2017/2018
Frank	Grimo Nut Nursery	2017/2018
Marion	Grimo Nut Nursery	2017/2018
Northern Blais	Grimo Nut Nursery	2017/2018
Dermis	Grimo Nut Nursery	2018/2019
Arb 4-3	UMHDI	2018-2021
Arb 7-1	UMHDI	
Cuddy 2-28	UMHDI	
Gibs 5-15	UMHDI	
Heas B	UMHDI	
Price W41	UMHDI	
Rose 9-2	UMHDI	
Shep Rosy	UMHDI	
SPC-2D5	UMHDI	
Gibs 2-30	UMHDI	
Gibs 6-23	UMHDI	
Eric 4-21	UMHDI	
Gunth GF	UMHDI	
Stap N7-6	UMHDI	
Raritan	Rutgers University	2021
Monmouth	Rutgers University	2021
Somerset	Rutgers University	2021
Hunterdon	Rutgers University	2021

Joint Performance Trials

Madison, WI Location Planted Spring 2017 8ft in-row spacing



Seedling

Frank

The Beast

Aldara

Grand
Traverse

Northern
Blais

Marion

Andrew

Frank



Dermis



Andrew



Aldara



Marion



Northern Blais

The Beast



RUTGERS

Oregon State
UNIVERSITY

OSU

Grand Traverse



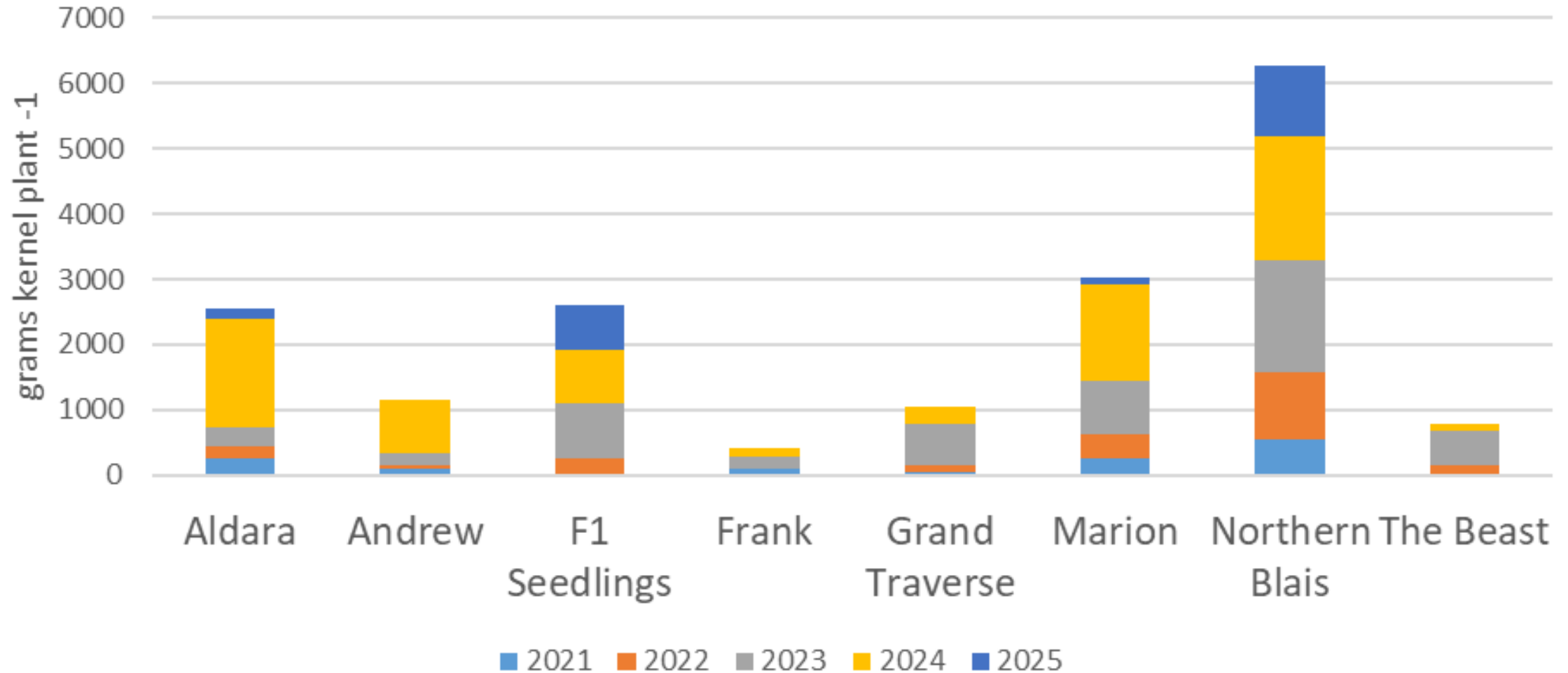
Individual Kernel Weight

	<u>West Madison</u>		<u>St. Paul</u>		<u>Staples</u>	
Selection	n	2024	n	2024	n	2025
Grand Traverse	11	1.07a	1	1.16*		
Marion	10	1.04a	3	1.16a	6	1.02a
The Beast	11	0.97ab	1	0.87*		
Aldara	9	0.94ab	1	0.91*	4	0.77b
Northern Blais	11	0.91b	7	0.98b	5	0.76b
Andrew	9	0.87b	1	0.88*		
Frank	10	0.87b	4	1.02b		
F1 Seedlings	15	0.59c				
p-value		<.0001		0.0007		<.0001

Percent Kernel

Selection	n	% kernel			3yr Ave
		2022	2023	2024	
Grand Traverse	11	47%	44%	46%	46%
The Beast	11	39%	42%	40%	40%
Marion	10	38%	38%	41%	39%
Aldara	9	33%	34%	46%	38%
Andrew	9	36%	37%	40%	38%
Frank	10	39%	37%	35%	37%
Northern Blais	11	37%	36%	38%	37%
FA Seedlings	15	37%	35%	34%	35%
p-value		0.0002	<.0001	<.0001	

Cumulative Kernel Yield 2021-2025



(Age 4-9)

West Madison Ag Research Station

23-25 Total Kernel Yield (average grams kernel per plant)

	Madison	St. Paul	Staples
Aldara	2120	34	174
Marion	2403	176	229
Northern Blais	4696	684	663

Northern Blais

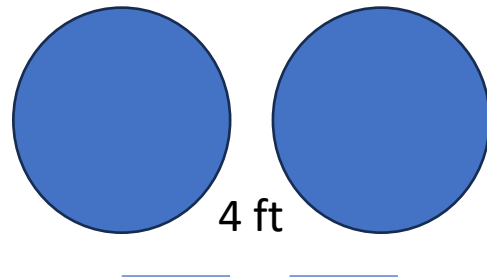


Northern Blais Stats

Madison Planting

Age	lbs/acre		\$/ac
	kernel	in-shell	
2021 (age 5)	438	1182	\$ 2,069
2022 (age 6)	817	2207	\$ 3,862
2023 (age 7)	1386	3747	\$ 6,557
2024 (age 8)	1523	4115	\$ 7,201
2025 (age 9)	854	2309	\$ 4,040

Ave Age 9 Width – 11.1 ft



How do we control
plant size and
shape cost-
effectively for
mechanical
harvest?



Cultivar Recommendations/Availability

- Yes to Northern Blais in Zone 5a or warmer
- Maybe Northern Blais in colder areas
- Maybe to Marion and Aldara in Zone 5a or warmer
- No to Andrew or Frank in Zone 5a or colder
- Not ready to give up on The Beast and Grand Traverse in Zone 5a and warmer