

Agzyme and Zydrive Trials

Kingsbury Farms
Fields Bubar 10 and Harper
Two chip Frito Lay varieties
Maine, 2022

FARM	Kingsbury	FIELD	Bubar 10 control	
VARIETY	2053	DATE	8/27/2022	
Estimated Yield	328	cwt/acre		
Avg Set Size	5.36	tubers/plant		
Avg Stems	3.1	stems/plant		
Total Weight	361.2	ounces		
Total Tubers	75			
Plants/10ft	14			
Size Range	% Weight	% Count	Avg Size	
<4 ounce	20.4%	34.7%	2.83	oz
4-8 ounce	64.1%	57.3%	5.39	oz
>=8 ounce	15.4%	8.0%	9.30	oz
	% Weight	% Count		
>=6ounce	39.2%	25.3%	7.46	oz
Min Size	2	oz		
Average Size	4.82	oz		
Max Size	14.4	oz		
Size Distribution	Number	Weight	% Weight	% Count
<4 oz	26	73.7	20.4%	34.7%
4-6 oz	30	145.8	40.4%	40.0%
6-8 oz	13	85.9	23.8%	17.3%
8-10 oz	5	41.4	11.5%	6.7%
10-12 oz	0	0	0.0%	0.0%
12-14 oz	0	0	0.0%	0.0%
>14 oz	1	14.4	4.0%	1.3%
TOTALS	75	361.2	100%	100%



FARM	Kingsbury	FIELD	Bubar agzyme	
VARIETY	2053	DATE	8/27/2022	
Estimated Yield	368	cwt/acre		
Avg Set Size	6.64	tubers/plant		
Avg Stems	4.00	stems/plant		
Total Weight	405.2	ounces		
Total Tubers	93			
Plants/10ft	14			
Size Range	% Weight	% Count	Avg Size	
<4 ounce	26.5%	40.9%	2.83	oz
4-8 ounce	67.3%	55.9%	5.24	oz
>=8 ounce	6.2%	3.2%	8.33	oz
	% Weight	% Count		
>=6ounce	29.9%	19.4%	6.73	oz
Min Size	2	oz		
Average Size	4.36	oz		
Max Size	8.8	oz		
Size Distribution	Number	Weight	% Weight	% Count
<4 oz	38	107.5	26.5%	40.9%
4-6 oz	37	176.5	43.6%	39.8%
6-8 oz	15	96.2	23.7%	16.1%
8-10 oz	3	25	6.2%	3.2%
10-12 oz	0	0	0.0%	0.0%
12-14 oz	0	0	0.0%	0.0%
>14 oz	0	0	0.0%	0.0%
TOTALS	93	405.2	100%	100%



FARM	Kingsbury	FIELD	Bubar zydrive	
VARIETY	2053	DATE	8/27/2022	
Estimated Yield	366	cwt/acre		
Avg Set Size	5.14	tubers/plant		
Avg Stems	2.4	stems/plant		
Total Weight	403.3	ounces		
Total Tubers	72			
Plants/10ft	14			
Size Range	% Weight	% Count	Avg Size	
<4 ounce	12.2%	23.6%	2.89	oz
4-8 ounce	63.9%	62.5%	5.73	oz
>=8 ounce	23.9%	12.5%	9.64	oz
	% Weight	% Count		
>=6ounce	54.5%	38.9%	7.86	oz
Min Size	2	oz		
Average Size	5.60	oz		
Max Size	12.8	oz		
Size Distribution	Number	Weight	% Weight	% Count
<4 oz	17	49.1	12.2%	23.6%
4-6 oz	27	134.2	33.3%	37.5%
6-8 oz	18	123.6	30.6%	25.0%
8-10 oz	6	52.6	13.0%	8.3%
10-12 oz	3	31	7.7%	4.2%
12-14 oz	1	12.8	3.2%	1.4%
>14 oz	0	0	0.0%	0.0%
TOTALS	72	403.3	100%	100%



FARM	Kingsbury	FIELD	Bubar control	
VARIETY	2137	DATE	8/27/2022	
Estimated Yield	291	cwt/acre		
Avg Set Size	5.77	tubers/plant		
Avg Stems	3.2	stems/plant		
Total Weight	320.8	ounces		
Total Tubers	75			
Plants/10ft	13			
Size Range	% Weight	% Count	Avg Size	
<4 ounce	32.7%	48.0%	2.91	oz
4-8 ounce	56.7%	46.7%	5.20	oz
>=8 ounce	10.6%	5.3%	8.48	oz
	% Weight	% Count		
>=6ounce	30.9%	18.7%	7.07	oz
Min Size	2	oz		
Average Size	4.28	oz		
Max Size	8.8	oz		
Size Distribution	Number	Weight	% Weight	% Count
<4 oz	36	104.9	32.7%	48.0%
4-6 oz	25	116.9	36.4%	33.3%
6-8 oz	10	65.1	20.3%	13.3%
8-10 oz	4	33.9	10.6%	5.3%
10-12 oz	0	0	0.0%	0.0%
12-14 oz	0	0	0.0%	0.0%
>14 oz	0	0	0.0%	0.0%
TOTALS	75	320.8	100%	100%



FARM	Kingsbury	FIELD	Bubar 10 Zydrive	
VARIETY	2137	DATE	8/27/2022	
Estimated Yield	353	cwt/acre		
Avg Set Size	6.62	tubers/plant		
Avg Stems	3.4	stems/plant		
Total Weight	388.5	ounces		
Total Tubers	86			
Plants/10ft	13			
Size Range	% Weight	% Count	Avg Size	
<4 ounce	25.9%	40.7%	2.88	oz
4-8 ounce	67.5%	55.8%	5.47	oz
>=8 ounce	6.5%	3.5%	8.43	oz
	% Weight	% Count		
>=6ounce	35.5%	23.3%	6.90	oz
Min Size	1.8	oz		
Average Size	4.52	oz		
Max Size	8.7	oz		
Size Distribution	Number	Weight	% Weight	% Count
<4 oz	35	100.8	25.9%	40.7%
4-6 oz	31	149.7	38.5%	36.0%
6-8 oz	17	112.7	29.0%	19.8%
8-10 oz	3	25.3	6.5%	3.5%
10-12 oz	0	0	0.0%	0.0%
12-14 oz	0	0	0.0%	0.0%
>14 oz	0	0	0.0%	0.0%
TOTALS	86	388.5	100%	100%



FARM	Kingsbury	FIELD	Bubar 10 Agzyme	
VARIETY	2137	DATE	8/27/2022	
Estimated Yield	329	cwt/acre		
Avg Set Size	5.77	tubers/plant		
Avg Stems	3.5	stems/plant		
Total Weight	363	ounces		
Total Tubers	75			
Plants/10ft	13			
Size Range	% Weight	% Count	Avg Size	
<4 ounce	19.8%	32.0%	2.99	oz
4-8 ounce	74.7%	65.3%	5.53	oz
>=8 ounce	5.6%	1.3%	10.10	oz
	% Weight	% Count		
>=6ounce	37.4%	25.3%	7.15	oz
Min Size	2.2	oz		
Average Size	4.84	oz		
Max Size	12	oz		
Size Distribution	Number	Weight	% Weight	% Count
<4 oz	24	71.7	19.8%	32.0%
4-6 oz	32	155.5	42.8%	42.7%
6-8 oz	17	115.6	31.8%	22.7%
8-10 oz	1	8.2	2.3%	1.3%
10-12 oz	0	0	0.0%	0.0%
12-14 oz	1	12	3.3%	1.3%
>14 oz	0	0	0.0%	0.0%
TOTALS	75	363	100%	100%



Frito Lay Specific Gravity

ΔGZYME

03:15 AM Mon Aug 29, 2014
P.O. NO: 22
LOT NO: 22

Water temp in F = 55
Potato temp in F = 55
Weight in Air = 6.7335 lb
Weight in Water = 0.5710 lb
Specific Gravity = 1.0927
Frito-Lay Solids = 19.03
Adjusted F/L Solids = 19.03

ZYDIVE

03:12 AM Mon Aug 29, 2014
P.O. NO: 22
LOT NO: 22

Water temp in F = 55
Potato temp in F = 55
Weight in Air = 6.6245 lb
Weight in Water = 0.5785 lb
Specific Gravity = 1.0957
Frito-Lay Solids = 19.57
Adjusted F/L Solids = 19.57

CONTINER

?°
03:09 AM Mon Aug 29, 2014
P.O. NO: 22
LOT NO: 22

Water temp in F = 55
Potato temp in F = 55
Weight in Air = 6.8650 lb
Weight in Water = 0.5730 lb
Specific Gravity = 1.0911
Frito-Lay Solids = 18.75
Adjusted F/L Solids = 18.75