

2014 Russet "Select" Freshpack Potato Variety Trial Overall Average- Ten Locations

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | | TUBER QUALITY ² | | | | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS | |
|--|------------|------------|-------------------------------|-----------|-----------|-----------|----------|--------------|----------------------------|------------|------------|------------|-------------------------|----------------------------|--|---|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | BC | | | | |
| AF3362-1Rus ^{abcdeghij} | 523 | 600 | 87 | 5 | 50 | 37 | 9 | 1.077 | 0.2 | 1.3 | 0.1 | 0.0 | 2.8 | 3.6 | 0.0-1.5 common scab, knobby and misshapen in pickouts | |
| AF4320-7Rus ^{abcdeghij} | 511 | 606 | 85 | 5 | 51 | 34 | 10 | 1.075 | 0.1 | 1.7 | 0.0 | 0.0 | 2.4 | 4.6 | 0.5-2.0 common scab, misshapen pickouts | |
| ATX91137-1Rus ^{abcdeghij} | 509 | 621 | 81 | 6 | 46 | 35 | 12 | 1.065 | 0.1 | 1.5 | 0.0 | 0.0 | 1.5 | 3.9 | 0.0-0.5 common scab, knobby, misshapen and gc in pickouts | |
| W9433-1Rus ^{abcdeghij} | 493 | 560 | 87 | 5 | 44 | 45 | 6 | 1.076 | 0.1 | 1.6 | 0.9 | 0.1 | 2.5 | 3.6 | 0.0-1.5 common scab, misshapen and knobs in pickouts | |
| Silverton Russet^{abcdeghij} | 433 | 524 | 82 | 11 | 54 | 28 | 7 | 1.076 | 0.5 | 1.6 | 0.1 | 0.3 | 2.9 | 3.6 | 0.0-0.5 common scab, gc, knobby and misshapen pickouts, alligator hide | |
| A03921-2Rus ^{abcdeghij} | 394 | 488 | 81 | 11 | 56 | 24 | 8 | 1.088 | 0.4 | 1.6 | 1.1 | 0.2 | 1.9 | 3.8 | 1.0-2.0 common scab, gc, eyebrowing and misshapen pickouts, small uniform tubular tuber type | |
| AF4152-7Rus ^c | 393 | 480 | 82 | 9 | 77 | 5 | 9 | 1.086 | 0.0 | 1.0 | 0.0 | 0.0 | 3.0 | 2.5 | misshapen pickouts | |
| A06021-1TRus ^{abcdeghij} | 390 | 471 | 83 | 10 | 60 | 23 | 7 | 1.077 | 0.3 | 1.2 | 0.2 | 0.6 | 1.8 | 3.3 | 0.5 common scab,gc, knobs and misshapen in pickouts, prominent lenticels | |
| W8152-1Rus ^{abcdeghij} | 381 | 475 | 81 | 13 | 62 | 19 | 5 | 1.081 | 0.9 | 0.8 | 0.1 | 0.3 | 2.9 | 3.2 | 0.5-1.0 common scab, alligator hide, gc and misshapen in pickouts | |
| W9133-1Rus ^{abcdeghij} | 373 | 472 | 80 | 12 | 55 | 25 | 8 | 1.071 | 0.5 | 0.5 | 0.1 | 0.0 | 2.6 | 2.8 | 0.0-1.5 common scab, sl alligator hide, misshapen and gc in pickouts | |
| AF4124-7Rus ^{abcdeghij} | 367 | 465 | 80 | 8 | 51 | 29 | 12 | 1.081 | 0.1 | 1.3 | 0.0 | 0.1 | 2.5 | 3.7 | 0.0 common scab, misshapen, prominent eyebrows | |
| Russet Norkotah^{abcdeghij} | 360 | 474 | 76 | 17 | 50 | 26 | 7 | 1.072 | 1.8 | 1.5 | 0.1 | 0.0 | 1.7 | 3.8 | 0.0- 1.0 common scab, tr gc, alligator hide, misshapen pickouts | |
| Goldrush Russet^{bd} | 349 | 470 | 75 | 19 | 71 | 4 | 6 | 1.066 | 0.0 | 1.5 | 0.0 | 0.0 | 3.3 | 3.0 | 0.0 common scab, misshapen pickouts | |
| Russet Norkotah LT^{cdefghij} | 340 | 454 | 74 | 22 | 60 | 14 | 4 | 1.070 | 0.6 | 1.1 | 0.2 | 0.0 | 2.7 | 2.4 | 1.0-1.5 common scab, gc and misshapen pickouts | |
| Mercury ⁱ | 280 | 419 | 67 | 16 | 61 | 6 | 17 | 1.087 | 1.0 | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | gc in pickouts | |
| MEAN | 415 | 511 | | | | | | 1.076 | | | | | | | | tr = trace, sl = slight, N/A = not available gc=growth crack |

2014 Russet Variety Trial Sites

^a Montcalm Research Center (replicated); Montcalm Co.

^b Elmable Farm; Kalkaska Co.

^c Crawford Farms; Montcalm Co.

^d Kitchen Farms; Antrim Co.

^e Walther Farms (Norkotah); St. Joseph Co. (Replicated)

^f Walther Farms (Silverton); St. Joseph Co. (Replicated)

^g VanDamme Farms; Delta Co.

^h Erke Farms, Presque Isle Co.

ⁱ Walther Farms (pinkeye); St. Joseph Co. (Replicated)

^j NFPT (selected lines replicated); Walther Farms; St. Joseph Co.

¹SIZE

Bs: < 4.0 oz.

As: 4.0 - 10.0 oz.

OV: > 10 oz.

PO: Pickouts

²TUBER QUALITY (number of tubers per 10 cut)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

³VINE VIGOR RATING

Ratings: 1 - 5

1: Slow Emergence

5: Early Emergence

(vigorous vine, some flowering)

⁴VINE MATURITY RATING

Ratings: 1 - 5

1: Early (vines completely dead)

5: Late (vigorous vine, some flowering)

2014 Russet "Select" Variety Trial

Elmapple Farms, Kalkaska County, MI

Harvest 1-Oct-14 133 Days
DD, Base 40⁵ 2729

| | CWT/A | | PERCENT OF TOTAL ¹ | | | | | | TUBER QUALITY ² | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS |
|-------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|-----------|--------------|----------------------------|----------|----------|----------|-----------|-------------------------|----------------------------|--|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | BC | | | | |
| W9433-1Rus | 568 | 618 | 92 | 1 | 17 | 75 | 7 | 1.074 | 0 | 3 | 0 | 0 | 10 | 4.5 | 4.0 | 0.0 common scab, misshapen pickouts |
| Silverton Russet | 473 | 524 | 90 | 4 | 52 | 38 | 6 | N/A | 0 | 2 | 0 | 0 | 10 | 4.0 | 3.5 | 0.5 common scab, misshapen pickouts |
| AF4320-7Rus | 451 | 572 | 79 | 6 | 45 | 34 | 15 | 1.075 | 0 | 2 | 0 | 0 | 10 | 2.5 | 5.0 | 0.5 common scab |
| W9133-1Rus | 419 | 533 | 79 | 10 | 53 | 26 | 11 | 1.062 | 0 | 0 | 0 | 0 | 10 | 3.5 | 2.5 | misshapen and gc in pickouts, 1.0 common scab |
| A03921-2Rus | 365 | 442 | 83 | 4 | 66 | 17 | 13 | 1.092 | 1 | 0 | 0 | 2 | 10 | 2.5 | 4.5 | gc and misshapen pickouts, 1.0 common scab |
| AF3362-1Rus | 356 | 477 | 75 | 5 | 52 | 23 | 20 | 1.072 | 0 | 2 | 0 | 0 | 10 | 4.0 | 4.0 | 0.5 common scab |
| Russet Norkotah | 354 | 411 | 86 | 8 | 64 | 22 | 6 | 1.065 | 2 | 0 | 0 | 0 | 10 | 3.5 | 2.5 | 0.0 common scab, misshapen pickouts |
| Goldrush Russet | 343 | 503 | 68 | 22 | 61 | 7 | 10 | 1.068 | 0 | 0 | 0 | 0 | 10 | 3.0 | 2.5 | 0.0 common scab, misshapen pickouts |
| W8152-1Rus | 341 | 415 | 82 | 13 | 48 | 34 | 5 | 1.074 | 1 | 3 | 0 | 0 | 10 | 3.5 | 3.0 | alligator hide, 0.5 common scab, gc in pickouts |
| AF4124-7Rus | 327 | 455 | 72 | 4 | 51 | 21 | 24 | 1.082 | 0 | 1 | 0 | 0 | 10 | 3.5 | 3.5 | 0.0 common scab |
| A06021-1TRus | 317 | 437 | 72 | 13 | 47 | 25 | 15 | 1.078 | 0 | 6 | 0 | 3 | 10 | 2.5 | 3.0 | misshapen pickouts, 0.5 common scab, many sun-burnt tubers |
| ATX91137-1Rus | 255 | 492 | 52 | 8 | 38 | 14 | 40 | 1.062 | 0 | 2 | 0 | 0 | 10 | 1.5 | 4.5 | knobs, misshapen and gc in pickouts, 0.0 common scab |
| MEAN | 381 | 490 | | | | | | 1.073 | | | | | | | | tr = trace, sl = slight, NA = not available |

SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 4 oz.
As: 4 - 10 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING

Date Taken: 26-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING

Date Taken: 13-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 21-May-14

Vines Killed: 13-Sep-14

Days from Planting to Vine Kill: 115

Seed Spacing: 12"

Fall Fumigation

⁵MAWN STATION: Kalkaska
Planting to Vine Kill

2014 Freshpack Potato Variety Trial

Crawford Farms, Montcalm County, MI

Harvest 1-Oct-14 125 Days
DD, Base 40⁵ 2591

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | TUBER QUALITY ² | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS | |
|---------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|-----------|----------------------------|----------|----------|----------|-----------|-------------------------|----------------------------|------------|--|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | | | | | BC |
| MSS206-2 | 638 | 717 | 89 | 1 | 41 | 48 | 10 | 1.071 | 1 | 2 | 0 | 0 | 10 | 2.0 | 4.0 | sheep nose and pear shape in pickouts |
| Reba | 619 | 643 | 96 | 2 | 72 | 24 | 2 | 1.072 | 0 | 0 | 1 | 1 | 10 | 3.5 | 2.5 | misshapen pickouts |
| MSS576-5SPL | 590 | 643 | 92 | 5 | 76 | 16 | 3 | 1.073 | 0 | 0 | 0 | 0 | 10 | 3.5 | 2.5 | misshapen pickouts |
| MSM288-2Y | 590 | 636 | 93 | 5 | 87 | 6 | 2 | 1.073 | 0 | 1 | 0 | 0 | 10 | 3.0 | 2.5 | misshapen pickouts, 1.0 common scab, deep yellow flesh |
| Red Norland | 554 | 620 | 89 | 4 | 89 | 0 | 7 | 1.067 | 0 | 1 | 0 | 0 | 10 | 3.0 | 1.0 | light red to red skin color |
| MSS176-1 | 545 | 583 | 94 | 1 | 67 | 27 | 5 | 1.072 | 0 | 0 | 0 | 10 | 10 | 3.0 | 3.5 | large flat to oval tuber type |
| AF3362-1Rus | 543 | 635 | 86 | 5 | 59 | 27 | 9 | 1.079 | 0 | 1 | 0 | 0 | 10 | 2.5 | 3.5 | knobs and misshapen pickouts |
| MSQ086-3 | 531 | 568 | 94 | 5 | 88 | 6 | 1 | 1.076 | 0 | 1 | 0 | 0 | 10 | 2.0 | 3.5 | 1.0 common scab, misshapen pickouts |
| MSQ131-A | 508 | 525 | 97 | 1 | 53 | 44 | 2 | 1.066 | 1 | 0 | 0 | 0 | 10 | 2.5 | 3.0 | misshapen pickouts, 1.0 common scab |
| W6703-1Y (Oneida Gold) | 475 | 537 | 88 | 12 | 88 | 0 | 0 | 1.070 | 0 | 0 | 0 | 0 | 10 | 2.5 | 1.5 | small uniform tuber type, yellow flesh |
| Russet Norkotah LT | 457 | 607 | 75 | 13 | 67 | 8 | 12 | 1.079 | 5 | 2 | 0 | 0 | 10 | 1.5 | 3.5 | 1.5 common scab, gc and misshapen in pickouts |
| AF4320-7Rus | 451 | 552 | 81 | 4 | 57 | 24 | 15 | 1.078 | 0 | 0 | 0 | 0 | 10 | 2.0 | 4.0 | misshapen pickouts, 1.5 common scab |
| A03921-2Rus | 413 | 528 | 78 | 18 | 76 | 2 | 4 | 1.099 | 0 | 2 | 0 | 0 | 10 | 2.5 | 3.5 | small uniform tuber type |
| AO6021-1TRus | 409 | 556 | 74 | 12 | 66 | 8 | 14 | 1.080 | 0 | 0 | 0 | 0 | 10 | 2.0 | 2.0 | misshapen pickouts, prominent lenticels |
| W9433-1Rus | 406 | 480 | 84 | 7 | 64 | 20 | 9 | 1.080 | 0 | 2 | 0 | 0 | 10 | 2.0 | 2.5 | 1.0 common scab, misshapen pickouts |
| AF4152-7Rus | 393 | 480 | 82 | 9 | 77 | 5 | 9 | 1.086 | 0 | 1 | 0 | 0 | 10 | 3.0 | 2.5 | misshapen pickouts |
| ATX91137-1Rus | 380 | 495 | 76 | 11 | 64 | 12 | 13 | 1.065 | 0 | 0 | 0 | 0 | 10 | 1.5 | 3.5 | knobs in pickouts |
| W9133-1Rus | 380 | 499 | 76 | 12 | 58 | 18 | 12 | 1.068 | 2 | 0 | 0 | 0 | 10 | 2.0 | 2.0 | misshapen pickouts, 1.0 common scab |
| W8152-1Rus | 358 | 443 | 81 | 17 | 76 | 5 | 2 | 1.079 | 2 | 0 | 0 | 0 | 10 | 2.5 | 3.0 | alligator hide, 1.0 common scab |
| CO05228-4Rus | 344 | 457 | 75 | 25 | 75 | 0 | 0 | 1.075 | 0 | 2 | 0 | 0 | 10 | 2.0 | 2.0 | small uniform tuber type, nice red skin color, 0.5 common scab |
| Silverton Russet | 306 | 396 | 77 | 21 | 70 | 7 | 2 | 1.065 | 0 | 1 | 0 | 0 | 10 | 2.5 | 3.0 | misshapen and gc in pickouts |
| Russet Norkotah | 207 | 368 | 56 | 39 | 55 | 1 | 5 | 1.067 | 0 | 0 | 1 | 0 | 10 | 3.0 | 1.0 | small tuber type, 0.5 common scab |
| MEAN | 459 | 544 | | | | | | 1.075 | | | | | | | | |

tr = trace, sl = slight, NA = not available

SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 1 7/8" or <4oz.
As: 1 7/8" - 3.25" or 4-10oz.
OV: > 3.25" or >10oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING

Date Taken: 3-Jul-13
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING

Date Taken: 26-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 29-May-14
Vines Killed: 2-Sep-14
Days from Planting to Vine Kill: 96
Seed Spacing : 10" (reds, yellows, whites) and 12" (russets)
No Fumigation

⁵MAWN STATION: Entrican
Planting to Vine Kill

2014 Russet Norkotah Tablestock Potato Variety Trial

Walther Farms, St. Joseph County, MI

Harvest 12-Sep-14 142 Days

DD, Base 40⁵ 3231

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | TUBER QUALITY ² | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS | |
|--------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|----------|----------------------------|----------|----------|----------|-----------|-------------------------|----------------------------|------------|---|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | | | | | BC |
| ATX91137-1Rus | 506 | 575 | 88 | 4 | 36 | 52 | 8 | 1.062 | 0 | 3 | 0 | 0 | 10 | 1.1 | 3.4 | gc, misshapen tubers, 0.5 common scab |
| W9433-1Rus | 386 | 418 | 93 | 5 | 44 | 49 | 2 | 1.073 | 0 | 2 | 1 | 0 | 10 | 1.3 | 3.9 | 0.5 common scab |
| Silverton Russet | 386 | 441 | 88 | 8 | 48 | 40 | 4 | 1.065 | 0 | 3 | 0 | 0 | 10 | 1.6 | 3.9 | alligator hide, slight gc |
| AF4320-7Rus | 347 | 381 | 91 | 8 | 54 | 37 | 1 | 1.067 | 0 | 5 | 0 | 0 | 10 | 1.0 | 4.6 | 2.0 common scab |
| AF3362-1Rus | 343 | 382 | 90 | 6 | 48 | 42 | 4 | 1.074 | 0 | 2 | 0 | 0 | 10 | 2.0 | 3.6 | glassy end |
| Russet Norkotah | 330 | 406 | 80 | 18 | 56 | 24 | 2 | 1.068 | 1 | 3 | 0 | 0 | 10 | 1.8 | 2.4 | 1.0 common scab, alligator hide, tr gc |
| W9133-1Rus | 330 | 354 | 93 | 5 | 38 | 56 | 2 | 1.064 | 0 | 0 | 0 | 0 | 10 | 1.1 | 2.5 | 1.0 common scab, sl pinkeye, sl gc |
| Russet Norkotah L | 320 | 349 | 92 | 7 | 49 | 43 | 1 | 1.064 | 2 | 5 | 0 | 0 | 10 | 1.0 | 4.1 | 1.0 common scab |
| W8152-1Rus | 301 | 328 | 92 | 8 | 53 | 39 | 0 | 1.076 | 0 | 3 | 1 | 1 | 10 | 1.5 | 3.4 | 0.5 common scab |
| AF4124-7Rus | 268 | 297 | 90 | 9 | 49 | 42 | 1 | 1.080 | 0 | 1 | 0 | 1 | 10 | 1.5 | 3.0 | |
| A06021-Trus | 246 | 281 | 88 | 12 | 52 | 36 | 0 | 1.075 | 1 | 1 | 0 | 1 | 10 | 1.1 | 3.0 | gc |
| A03921-2Rus | 208 | 261 | 79 | 16 | 50 | 29 | 5 | 1.078 | 0 | 2 | 3 | 0 | 10 | 1.0 | 2.9 | 1.0 common scab, gc |
| MEAN | 331 | 373 | | | | | | 1.071 | | | | | | | | |

tr = trace, sl = slight, NA = not available
gc=growth crack

¹SIZE

Bs: < 4.0 oz.
As: 4.0 - 10.0 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING

Date Taken: 28-May-14
Ratings: 1-5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING

Date Taken: 1-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 23-Apr-14
Vines Killed: 25-Aug-14
Days from Planting to Vine Kill: 124
Seed Spacing: 12"
Fumigation

⁵MAWN STATION: Constantine
Planting to Vine Kill

2014 Silverton Russet Tablestock Potato Variety Trial

Walther Farms, St. Joseph County, MI

Harvest 16-Oct-14 176 Days
DD, Base 40⁵ 3613

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | TUBER QUALITY ² | | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS |
|---------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|-----------|----------------------------|----------|----------|----------|----------|-----------|-------------------------|----------------------------|---|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | BC | | | | |
| ATX91137-1Rus | 530 | 620 | 84 | 6 | 34 | 50 | 9 | 1.059 | 0 | 3 | 0 | 0 | 10 | 1.8 | 3.5 | |
| Silverton Russet | 501 | 567 | 88 | 7 | 46 | 42 | 5 | 1.066 | 0 | 2 | 0 | 1 | 10 | 2.4 | 3.4 | |
| W9433-1Rus | 404 | 464 | 87 | 5 | 52 | 35 | 8 | 1.073 | 0 | 2 | 4 | 0 | 10 | 1.5 | 3.4 | |
| AF3362-1Rus | 378 | 432 | 87 | 4 | 49 | 39 | 8 | 1.072 | 0 | 3 | 1 | 0 | 10 | 2.1 | 3.4 | |
| W9133-1Rus | 301 | 339 | 89 | 9 | 75 | 14 | 2 | 1.065 | 1 | 0 | 0 | 0 | 10 | 1.4 | 2.0 | 0.5 common scab |
| Russet Norkotah LT | 294 | 380 | 77 | 13 | 57 | 20 | 10 | 1.068 | 4 | 1 | 1 | 0 | 10 | 1.3 | 3.8 | |
| A06021-TRus | 290 | 341 | 85 | 9 | 62 | 23 | 6 | 1.078 | 1 | 1 | 1 | 1 | 10 | 1.1 | 2.5 | gc and knobs in pickouts |
| A03921-2Rus | 262 | 332 | 79 | 14 | 55 | 24 | 7 | 1.087 | 0 | 4 | 3 | 0 | 10 | 1.4 | 3.3 | misshapen pickouts, tubular type, 1.0 common scab |
| MEAN | 370 | 434 | | | | | | 1.071 | | | | | | | | |

tr = trace, sl = slight, NA = not available
SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 4.0 oz.
As: 4.0 - 10.0 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING

Date Taken: 28-May-14
Ratings: 1-5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING

Date Taken: 1-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 23-Apr-14
Vines Killed: 6-Sept-14
Days from Planting to Vine Kill: 136
Seed Spacing: 12"
Fumigation

⁵MAWN STATION: Constantine
Planting to Vine Kill

2014 Freshpack Potato Variety Trial

Erke Farms, Presque Isle County, MI

Harvest 10-Oct-14 133 Days

DD, Base 40⁵ 2544

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | SP GR | TUBER QUALITY ² | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS |
|---------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|-----------|--------------|----------------------------|----------|----------|----------|-----------|-------------------------|----------------------------|--|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | | HH | VD | IBS | BC | | | | |
| MSS576-5SPL | 826 | 901 | 91 | 3 | 81 | 10 | 6 | 1.082 | 0 | 2 | 0 | 0 | 10 | 4.5 | 3.0 | nice uniform size profile, pinkeye, 0.0 common scab |
| MSQ131-A | 784 | 827 | 94 | 2 | 55 | 39 | 4 | 1.081 | 0 | 0 | 0 | 0 | 10 | 4.5 | 3.5 | uniform round tuber type, sl pinkeye, 0.5 common scab |
| AF33621-Rus | 721 | 858 | 84 | 10 | 74 | 10 | 6 | 1.090 | 0 | 0 | 0 | 0 | 10 | 5.0 | 4.0 | uniform tuber type, 0.0 common scab, tr pinkeye |
| W6703-1Y (Oneida Gold) | 682 | 763 | 89 | 11 | 89 | 0 | 0 | 1.084 | 0 | 0 | 0 | 0 | 10 | 4.0 | 2.5 | small uniform tuber type, medium yellow flesh, 0.5 common scab |
| MSS176-1 | 658 | 736 | 90 | 4 | 90 | 0 | 6 | 1.100 | 0 | 1 | 1 | 0 | 10 | 5.0 | 3.0 | misshapen and gc in pickouts |
| MSS206-2 | 648 | 805 | 81 | 5 | 62 | 19 | 14 | 1.080 | 1 | 1 | 0 | 0 | 10 | 4.0 | 4.0 | misshapen pickouts, 0.5 common scab, tr of gc, pinkeye |
| MSM288-2Y | 628 | 803 | 78 | 10 | 72 | 6 | 12 | 1.085 | 1 | 1 | 0 | 1 | 10 | 4.5 | 3.0 | deep yellow flesh, 1.0 common scab, pinkeye, uniform tuber type |
| Reba | 584 | 744 | 78 | 8 | 64 | 14 | 14 | 1.082 | 0 | 3 | 0 | 0 | 10 | 4.0 | 2.5 | misshapen pickouts, deep apical eye, 0.0 common scab |
| W9433-1Rus | 555 | 740 | 75 | 12 | 43 | 32 | 13 | 1.085 | 0 | 5 | 3 | 1 | 10 | 4.5 | 3.5 | |
| Red Norland | 532 | 628 | 85 | 12 | 85 | 0 | 3 | 1.074 | 0 | 1 | 0 | 0 | 10 | 3.0 | 1.5 | misshapen pickouts, 0.0 common scab |
| MSQ086-3 | 532 | 659 | 80 | 11 | 78 | 2 | 9 | 1.082 | 0 | 0 | 0 | 0 | 10 | 4.0 | 3.5 | misshapen and gc in pickouts, severe pinkeye, severe blackleg, 0.0 common scab |
| W9133-1Rus | 416 | 605 | 69 | 22 | 59 | 10 | 9 | 1.073 | 0 | 2 | 0 | 0 | 10 | 4.5 | 2.5 | misshapen pickouts, pinkeye, 0.0 common scab |
| CO05228-4R | 405 | 664 | 61 | 35 | 61 | 0 | 4 | 1.073 | 0 | 0 | 0 | 0 | 10 | 2.5 | 2.0 | very small uniform tuber type, 0.5 common scab, dark red skin color |
| Russet Norkotah | 389 | 664 | 58 | 32 | 55 | 3 | 10 | 1.077 | 0 | 3 | 0 | 0 | 10 | 4.0 | 2.5 | knobs and misshapen in pickouts, pinkeye, 0.0 common scab |
| Silverton Russet | 373 | 541 | 69 | 24 | 69 | 0 | 7 | 1.080 | 2 | 2 | 1 | 2 | 10 | 4.5 | 3.5 | misshapen pickouts, 0.0 common scab |
| W8152-1Rus | 373 | 640 | 58 | 25 | 58 | 0 | 17 | 1.093 | 1 | 0 | 0 | 1 | 10 | 5.0 | 2.5 | 0.0 common scab, severe gc in pickouts |
| Russet Norkotah LT | 93 | 455 | 20 | 74 | 20 | 0 | 6 | 1.084 | 0 | 0 | 0 | 0 | 10 | 3.0 | 3.5 | |
| MEAN | 734 | 817 | 90 | | | | | 1.087 | | | | | | | | |

tr = trace, sl = slight, N/A = not applicable

SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 1 7/8" or
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING

Date Taken: 8-Jul-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING

Date Taken: 26-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 30-May-14

Vines Killed: 12-Sep-14

Days from Planting to Vine Kill: 105

Seed Spacing: 10" (red, yellow, round white) and 12" (russets)

No Fumigation

⁵MAWN STATION: Hawks
Planting to Vine Kill

2014 Freshpack Potato Variety Trial
Kitchen Farms, Antrim County, MI
Harvest 23-Sep-14 116 Days
DD, Base 40⁵ 2156

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | TUBER QUALITY ² | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS | |
|---------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|----------|----------------------------|----------|----------|----------|-----------|-------------------------|----------------------------|------------|---|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | | | | | BC |
| AF4320-7Rus | 636 | 701 | 91 | 4 | 64 | 27 | 5 | 1.068 | 0 | 0 | 0 | 0 | 10 | 5.0 | 5.0 | 0.5 common scab, |
| MSS576-5SPL | 629 | 671 | 94 | 1 | 66 | 28 | 5 | 1.062 | 0 | 2 | 0 | 0 | 10 | 2.5 | 3.5 | 0.5 common scab, gc in pickouts |
| AF3362-1Rus | 602 | 641 | 94 | 3 | 56 | 38 | 3 | 1.070 | 0 | 0 | 0 | 0 | 10 | 2.5 | 3.5 | 0.5 common scab, knobs in pickouts |
| Reba | 545 | 568 | 96 | 2 | 50 | 46 | 2 | 1.068 | 2 | 0 | 1 | 0 | 10 | 3.5 | 3.5 | 1.0 common scab, misshapen pickouts |
| ATX91137-1Rus | 545 | 732 | 74 | 8 | 60 | 15 | 18 | 1.061 | 0 | 1 | 0 | 0 | 10 | 1.0 | 4.5 | knobs and misshapen in pickouts, 0.5 common scab |
| MSS206-2 | 543 | 650 | 84 | 2 | 48 | 35 | 14 | 1.063 | 7 | 0 | 0 | 0 | 10 | 1.5 | 4.5 | 2.5 common scab, pear shapes and bottlenecking in pickouts |
| W9433-1Rus | 522 | 551 | 95 | 1 | 43 | 52 | 4 | 1.063 | 0 | 0 | 1 | 0 | 10 | 2.0 | 4.0 | 1.5 common scab |
| MSM288-2Y | 510 | 564 | 91 | 4 | 75 | 16 | 5 | 1.067 | 0 | 1 | 0 | 1 | 10 | 2.0 | 3.5 | 3.0 common scab, two tubers with black leg |
| Red Norland | 466 | 517 | 90 | 6 | 84 | 6 | 4 | 1.055 | 2 | 1 | 0 | 0 | 10 | 2.5 | 2.5 | 0.5 common scab, gc and misshapen in pickouts |
| W6703-1Y(Oneida Gold) | 456 | 500 | 91 | 8 | 91 | 0 | 1 | 1.066 | 0 | 0 | 0 | 0 | 10 | 2.0 | 3.5 | 0.5 common scab, uniform tuber type, yellow flesh |
| A03921-2Rus | 437 | 502 | 87 | 10 | 70 | 17 | 3 | 1.085 | 0 | 0 | 2 | 0 | 10 | 2.0 | 4.5 | 2.0 common scab, points, eye-browing in pickouts |
| AF4124-7Rus | 434 | 466 | 93 | 4 | 70 | 23 | 3 | 1.072 | 0 | 0 | 0 | 0 | 10 | 2.0 | 4.0 | misshapen pickouts, prominent eye brows |
| W8152-1Rus | 433 | 514 | 84 | 10 | 73 | 11 | 6 | 1.080 | 0 | 0 | 0 | 0 | 10 | 2.5 | 3.5 | 0.5 common scab, gc in pickouts |
| MSS176-1 | 431 | 498 | 87 | 3 | 58 | 28 | 10 | 1.062 | 0 | 1 | 1 | 0 | 10 | 2.5 | 5.0 | 0.5 common scab, gc in pickouts |
| Russet Norkotah LT | 426 | 505 | 84 | 15 | 76 | 8 | 1 | 1.069 | 2 | 2 | 0 | 0 | 10 | 1.5 | 4.5 | 1.0 common scab, misshapen pickouts |
| Russet Norkotah | 402 | 481 | 84 | 14 | 74 | 10 | 2 | 1.065 | 0 | 0 | 0 | 0 | 10 | 2.0 | 2.5 | 1.0 common scab |
| MSQ086-3 | 396 | 418 | 95 | 4 | 65 | 30 | 1 | 1.065 | 0 | 2 | 2 | 0 | 10 | 4.5 | 4.5 | 0.5 common scab, tr sheep nose |
| A06021-1TRus | 368 | 432 | 85 | 11 | 80 | 5 | 4 | 1.068 | 0 | 0 | 0 | 0 | 10 | 2.0 | 4.0 | 0.5 common scab, |
| CO05228-4R | 361 | 478 | 76 | 23 | 76 | 0 | 1 | 1.060 | 0 | 0 | 0 | 0 | 10 | 3.5 | 3.5 | 2.0 common scab, nice dark red skin color, small uniform tuber type |
| MSQ131-A | 359 | 386 | 93 | 3 | 58 | 35 | 4 | 1.055 | 0 | 1 | 0 | 0 | 10 | 1.0 | 4.0 | 1.5 common scab, gc and misshapen in pickouts, |
| GoldRush Russet | 356 | 438 | 81 | 17 | 80 | 2 | 2 | 1.064 | 0 | 3 | 0 | 0 | 10 | 3.5 | 3.5 | 0.0 common scab, misshapen pickouts |
| W9133-1Rus | 341 | 489 | 70 | 19 | 64 | 5 | 11 | 1.063 | 0 | 1 | 0 | 0 | 10 | 3.5 | 3.5 | 0.0 common scab, misshapen pickouts |
| Silverton Russet | 300 | 376 | 80 | 14 | 75 | 5 | 6 | 1.062 | 0 | 3 | 0 | 0 | 10 | 2.0 | 4.0 | 0.5 common scab, gc and knobs in pickouts |
| MEAN | 456 | 525 | | | | | | 1.066 | | | | | | | | |

tr = trace, sl = slight, NA = not available
SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8" or < 4 oz.
As: 1 7/8" - 3.25" or 4 - 10 oz.
OV: > 3.25" or > 10 oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING
Date Taken: 26-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING
Date Taken: 13-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 30-May-14
Vines Killed: 28-Aug-14
Days from Planting to Vine Kill: 90
Seed Spacing: 10" (whites, yellows, reds, and AF3362-1Rus); 12" (russets)
Fall Fumigation

⁵MAWN STATION: Gaylord
Planting to Vine Kill

2014 Freshpack Potato Variety Trial VanDamme Farms, Delta County, MI

Harvest 7-Oct-14 129 Days

DD, Base 40⁵ 2682

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | TUBER QUALITY ² | | | | TOTAL | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS | |
|---------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|-----------|----------------------------|----------|----------|----------|----------|-------------------------|----------------------------|------------|-----------------------|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | | | | | BC |
| Reba | 637 | 660 | 96 | 4 | 47 | 49 | 0 | 1.080 | 0 | 0 | 0 | 0 | 10 | 4.0 | 3.5 | |
| MSS176-1 | 573 | 629 | 91 | 2 | 69 | 22 | 7 | 1.077 | 0 | 0 | 0 | 0 | 10 | 4.5 | 4.5 | |
| Red Norland | 515 | 547 | 94 | 3 | 87 | 7 | 3 | 1.073 | 0 | 0 | 0 | 0 | 10 | 4.5 | 3.0 | |
| W9133-1Rus | 497 | 596 | 84 | 2 | 40 | 44 | 14 | 1.100 | 0 | 0 | 0 | 0 | 10 | 4.5 | 3.5 | |
| MSS206-2 | 491 | 502 | 98 | 1 | 45 | 53 | 1 | 1.100 | 0 | 0 | 0 | 0 | 10 | 4.0 | 4.5 | |
| AF4320-7Rus | 465 | 531 | 88 | 2 | 43 | 45 | 10 | 1.085 | 0 | 0 | 0 | 0 | 10 | 4.0 | 3.5 | |
| ATX91137-1Rus | 452 | 516 | 88 | 7 | 47 | 41 | 5 | 1.077 | 0 | 0 | 0 | 0 | 10 | 3.0 | 4.0 | |
| Silverton Russet | 447 | 568 | 79 | 8 | 39 | 40 | 13 | 1.085 | 0 | 0 | 0 | 0 | 10 | 4.5 | 3.5 | |
| MSQ131-A | 433 | 440 | 99 | 0 | 38 | 61 | 1 | 1.078 | 0 | 0 | 0 | 0 | 10 | 4.5 | 4.0 | |
| MSS576-5SPL | 432 | 488 | 88 | 6 | 66 | 22 | 6 | 1.076 | 0 | 0 | 0 | 0 | 10 | 4.5 | 3.5 | |
| Russet Norkotah LT | 427 | 464 | 92 | 5 | 49 | 43 | 3 | 1.075 | 0 | 0 | 0 | 0 | 10 | 3.0 | 3.0 | gc in pickouts |
| W6703-1Y (Oneida Gold) | 422 | 442 | 96 | 1 | 90 | 6 | 3 | 1.080 | 0 | 0 | 0 | 0 | 10 | 4.0 | 3.0 | |
| A03921-2Rus | 409 | 497 | 82 | 12 | 50 | 32 | 6 | 1.078 | 0 | 0 | 0 | 0 | 10 | 3.0 | 5.0 | |
| A06021-Trus | 407 | 489 | 83 | 8 | 61 | 22 | 9 | 1.073 | 0 | 0 | 0 | 0 | 10 | 3.0 | 5.0 | |
| MSM288-2Y | 396 | 417 | 95 | 5 | 81 | 14 | 0 | 1.076 | 0 | 0 | 0 | 0 | 10 | 3.5 | 3.5 | |
| W8152-1Rus | 337 | 405 | 83 | 14 | 63 | 20 | 3 | 1.082 | 0 | 0 | 0 | 0 | 10 | 4.5 | 3.5 | |
| W9433-1Rus | 316 | 339 | 93 | 4 | 37 | 56 | 3 | 1.082 | 0 | 0 | 0 | 0 | 10 | 4.0 | 4.5 | |
| AF4124-7Rus | 311 | 436 | 71 | 12 | 37 | 34 | 17 | 1.085 | 0 | 0 | 0 | 0 | 10 | 4.5 | 4.5 | |
| MSQ086-3 | 299 | 315 | 95 | 5 | 77 | 18 | 0 | 1.076 | 0 | 0 | 0 | 0 | 10 | 2.5 | 4.0 | |
| CO05228-4R | 283 | 331 | 86 | 9 | 82 | 4 | 5 | 1.085 | 0 | 0 | 0 | 0 | 10 | 2.5 | 3.5 | |
| AF3362-1Rus | 228 | 274 | 83 | 3 | 41 | 42 | 14 | 1.076 | 1 | 0 | 0 | 0 | 10 | 3.5 | 3.0 | |
| Russet Norkotah | 178 | 264 | 68 | 21 | 56 | 12 | 11 | 1.075 | 0 | 0 | 0 | 0 | 10 | 3.5 | 3.0 | gc in pickouts |
| MEAN | 407 | 461 | | | | | | 1.081 | | | | | | | | |

tr = trace, sl = slight, N/A = not applicable
SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8" or <4oz.
As: 1 7/8" - 3.25" or 4-10oz.
OV: > 3.25" or >10oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING
Date Taken: 10-Jul-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING
Date Taken: 27-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some

Planted: 31-May-14
Vines Killed: 15-Sep-14
Days from Planting to Vine Kill: 107
Seed Spacing: 12"
No Fumigation

⁵MAWN STATION: Escanaba
Planting to Vine Kill

2014 Russet Norkotah Tablestock Potato Variety Trial

Walther Farms, St. Joseph County, MI

Harvest 12-Sep-14 142 Days

DD, Base 40⁵ 3231

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | TUBER QUALITY ² | | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS |
|--------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|----------|----------------------------|----------|----------|----------|----------|-----------|-------------------------|----------------------------|---|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | BC | | | | |
| ATX91137-1Rus | 506 | 575 | 88 | 4 | 36 | 52 | 8 | 1.062 | 0 | 3 | 0 | 0 | 10 | 1.1 | 3.4 | gc, misshapen tubers, 0.5 common scab |
| W9433-1Rus | 386 | 418 | 93 | 5 | 44 | 49 | 2 | 1.073 | 0 | 2 | 1 | 0 | 10 | 1.3 | 3.9 | 0.5 common scab |
| Silverton Russet | 386 | 441 | 88 | 8 | 48 | 40 | 4 | 1.065 | 0 | 3 | 0 | 0 | 10 | 1.6 | 3.9 | alligator hide, slight gc |
| AF4320-7Rus | 347 | 381 | 91 | 8 | 54 | 37 | 1 | 1.067 | 0 | 5 | 0 | 0 | 10 | 1.0 | 4.6 | 2.0 common scab |
| AF3362-1Rus | 343 | 382 | 90 | 6 | 48 | 42 | 4 | 1.074 | 0 | 2 | 0 | 0 | 10 | 2.0 | 3.6 | glassy end |
| Russet Norkotah | 330 | 406 | 80 | 18 | 56 | 24 | 2 | 1.068 | 1 | 3 | 0 | 0 | 10 | 1.8 | 2.4 | 1.0 common scab, alligator hide, tr gc |
| W9133-1Rus | 330 | 354 | 93 | 5 | 38 | 56 | 2 | 1.064 | 0 | 0 | 0 | 0 | 10 | 1.1 | 2.5 | 1.0 common scab, sl pinkeye, sl gc |
| Russet Norkotah L | 320 | 349 | 92 | 7 | 49 | 43 | 1 | 1.064 | 2 | 5 | 0 | 0 | 10 | 1.0 | 4.1 | 1.0 common scab |
| W8152-1Rus | 301 | 328 | 92 | 8 | 53 | 39 | 0 | 1.076 | 0 | 3 | 1 | 1 | 10 | 1.5 | 3.4 | 0.5 common scab |
| AF4124-7Rus | 268 | 297 | 90 | 9 | 49 | 42 | 1 | 1.080 | 0 | 1 | 0 | 1 | 10 | 1.5 | 3.0 | |
| A06021-Trus | 246 | 281 | 88 | 12 | 52 | 36 | 0 | 1.075 | 1 | 1 | 0 | 1 | 10 | 1.1 | 3.0 | gc |
| A03921-2Rus | 208 | 261 | 79 | 16 | 50 | 29 | 5 | 1.078 | 0 | 2 | 3 | 0 | 10 | 1.0 | 2.9 | 1.0 common scab, gc |
| MEAN | 331 | 373 | | | | | | 1.071 | | | | | | | | |

tr = trace, sl = slight, NA = not available
gc=growth crack

¹SIZE

Bs: < 4.0 oz.
As: 4.0 - 10.0 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING

Date Taken: 28-May-14
Ratings: 1-5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING

Date Taken: 1-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 23-Apr-14
Vines Killed: 25-Aug-14
Days from Planting to Vine Kill: 124
Seed Spacing: 12"
Fumigation

⁵MAWN STATION: Constantine
Planting to Vine Kill

2014 Silverton Russet Tablestock Potato Variety Trial

Walther Farms, St. Joseph County, MI

Harvest 16-Oct-14 176 Days
DD, Base 40⁵ 3613

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | TUBER QUALITY ² | | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS |
|---------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|-----------|----------------------------|----------|----------|----------|----------|-----------|-------------------------|----------------------------|---|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | BC | | | | |
| ATX91137-1Rus | 530 | 620 | 84 | 6 | 34 | 50 | 9 | 1.059 | 0 | 3 | 0 | 0 | 10 | 1.8 | 3.5 | |
| Silverton Russet | 501 | 567 | 88 | 7 | 46 | 42 | 5 | 1.066 | 0 | 2 | 0 | 1 | 10 | 2.4 | 3.4 | |
| W9433-1Rus | 404 | 464 | 87 | 5 | 52 | 35 | 8 | 1.073 | 0 | 2 | 4 | 0 | 10 | 1.5 | 3.4 | |
| AF3362-1Rus | 378 | 432 | 87 | 4 | 49 | 39 | 8 | 1.072 | 0 | 3 | 1 | 0 | 10 | 2.1 | 3.4 | |
| W9133-1Rus | 301 | 339 | 89 | 9 | 75 | 14 | 2 | 1.065 | 1 | 0 | 0 | 0 | 10 | 1.4 | 2.0 | 0.5 common scab |
| Russet Norkotah LT | 294 | 380 | 77 | 13 | 57 | 20 | 10 | 1.068 | 4 | 1 | 1 | 0 | 10 | 1.3 | 3.8 | |
| A06021-TRus | 290 | 341 | 85 | 9 | 62 | 23 | 6 | 1.078 | 1 | 1 | 1 | 1 | 10 | 1.1 | 2.5 | gc and knobs in pickouts |
| A03921-2Rus | 262 | 332 | 79 | 14 | 55 | 24 | 7 | 1.087 | 0 | 4 | 3 | 0 | 10 | 1.4 | 3.3 | misshapen pickouts, tubular type, 1.0 common scab |
| MEAN | 370 | 434 | | | | | | 1.071 | | | | | | | | |

tr = trace, sl = slight, NA = not available
SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 4.0 oz.
As: 4.0 - 10.0 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING

Date Taken: 28-May-14
Ratings: 1-5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING

Date Taken: 1-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 23-Apr-14
Vines Killed: 6-Sept-14
Days from Planting to Vine Kill: 136
Seed Spacing: 12"
Fumigation

⁵MAWN STATION: Constantine
Planting to Vine Kill

2014 Russet Pinkey Variety Trial Walther Farms, St. Joseph County, MI

Harvest 18-Sep-14 148 Days
DD, Base 40¹ 3228

| LINE | CWT/A | | PERCENT OF TOTAL ² | | | | | TUBER QUALITY ³ | | | | VINE VIGOR ⁴ | VINE MATURITY ⁵ | PINK EYE ⁶ | ALLIGATOR HIDE ⁷ | COMMENTS | |
|----------------------------|------------|------------|-------------------------------|----------|-----------|-----------|-----------|----------------------------|------------|------------|------------|-------------------------|----------------------------|-----------------------|-----------------------------|------------|---|
| | US#1 | TOTAL | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | BC | | | | | |
| AF3362-1Rus* | 607 | 754 | 80 | 4 | 45 | 35 | 16 | 1.077 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.0 | 0.0 | 1.5 | misshapen and knobs in pickouts |
| Russet Norkotah* | 563 | 630 | 89 | 8 | 62 | 27 | 3 | 1.069 | 0.0 | 1.0 | 1.0 | 0.0 | 2.0 | 2.5 | 0.0 | 1.5 | 1.0 common scab, misshapen pickouts |
| ATX91137-1Rus *** | 468 | 560 | 84 | 5 | 44 | 40 | 11 | 1.062 | 0.0 | 0.7 | 0.3 | 0.0 | 1.0 | 4.5 | 0.0 | 1.0 | misshapen and knobs in pickouts, dark russeted skin |
| AF4320-7Rus* | 437 | 555 | 79 | 6 | 61 | 18 | 15 | 1.074 | 0.0 | 4.0 | 0.0 | 0.0 | 1.5 | 5.0 | 0.0 | 1.5 | misshapen pickouts |
| Silverton Russet * | 435 | 585 | 74 | 8 | 42 | 32 | 18 | 1.066 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 4.0 | 0.0 | 2.5 | gc, misshapen and pear-shaped pickouts |
| W9433-1Rus** | 425 | 509 | 83 | 7 | 49 | 34 | 10 | 1.073 | 0.0 | 0.5 | 0.0 | 0.0 | 1.5 | 3.3 | 0.0 | 1.8 | misshapen and knobs in pickouts |
| Russet Norkotah LT* | 425 | 526 | 81 | 5 | 44 | 37 | 14 | 1.068 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | 4.0 | 1.0 | 3.5 | misshapen and knobs in pickouts |
| AF4124-7Rus** | 419 | 601 | 69 | 7 | 34 | 35 | 24 | 1.082 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.0 | 0.0 | 1.5 | misshapen and knobs in pickouts |
| W8152-1Rus* | 392 | 455 | 86 | 4 | 71 | 15 | 10 | 1.079 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 4.0 | 0.0 | 2.0 | gc and misshapen in pickouts |
| A06021-TRus* | 375 | 428 | 88 | 5 | 60 | 28 | 7 | 1.076 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 4.0 | 0.0 | 1.0 | misshapen pickouts |
| A03921-2Rus** | 360 | 504 | 71 | 7 | 35 | 36 | 22 | 1.085 | 2.0 | 2.0 | 1.0 | 0.0 | 1.5 | 4.0 | 0.0 | 1.8 | misshapen, eyebrowing, knobs in pickouts |
| W9133-1Rus ** | 295 | 391 | 75 | 7 | 51 | 24 | 18 | 1.066 | 1.5 | 0.0 | 0.0 | 0.0 | 1.5 | 3.3 | 0.0 | 2.8 | 1.5 common scab, misshapen and knobs in pickouts |
| Mercury* | 280 | 419 | 67 | 16 | 61 | 6 | 17 | 1.087 | 1.0 | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 0.0 | 1.5 | gc in pickouts |
| MEAN | 421 | 532 | | | | | | 1.074 | | | | | | | | | |

tr = trace, sl = slight, NA = not available
SED = stem end defect, gc = growth crack

²SIZE

Bs: < 4 oz.
As: 4-10 oz.
OV: > 10 oz.
PO: Pickouts

³TUBER QUALITY (number of tubers per ten cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

⁴VINE VIGOR RATING

Date Taken: 28-May-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date Taken: 1-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 23-Apr-14
Vines Killed: 25-Aug-14
Days from Planting to Vine Kill: 124
Seed Spacing: 12"
No Fumigation

* indicates number of replications for each line

⁶PINKEYE RATING

0.0: No incidence of pink
2.0: Pink coloration, cracking of periderm
5.0: Large, pink, buffy areas

⁷ALLIGATOR HIDE RATING

0.0: No incidence of raised corky skin spots
2.0: Unmarketable corky skin
5.0: Multiple, large corky skin lesions, covering a significant amount of surface area of the tuber

¹MAWN STATION: Mendon
Planting to Vine Kill

2014 Michigan NFPT Trial- Added lines Walther Farms - St. Joseph County

Harvest: 20-Sep-14 142 Days
DD, Base 40⁵ 3260

| LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | SP GR | TUBER QUALITY ² | | | | TOTAL CUT | VINE VIGOR ³ | VINE MATURITY ⁴ | COMMENTS |
|------------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|----------|--------------|----------------------------|----------|----------|----------|-----------|-------------------------|----------------------------|---|
| | US# 1 | Total | US#1 | Bs | As | OV | PO | | HH | VD | IBS | BC | | | | |
| W9433-1Rus**** | 613 | 658 | 93 | 7 | 51 | 42 | 0 | 1.077 | 1 | 1 | 0 | 0 | 10 | 1.6 | 3.3 | heat sprout, gc in pickouts |
| AF3362-1 Rus*** | 570 | 607 | 94 | 4 | 31 | 63 | 2 | 1.073 | 0 | 1 | 0 | 0 | 10 | 2.0 | 3.7 | 1.5 common scab |
| ATX91137-1Rus*** | 563 | 597 | 94 | 3 | 39 | 56 | 2 | 1.062 | 1 | 4 | 0 | 0 | 10 | 1.0 | 3.7 | misshapen pickouts, alligator hide, gc in pickouts |
| AF4320-7Rus** | 536 | 602 | 89 | 7 | 35 | 53 | 5 | 1.069 | 1 | 2 | 0 | 0 | 10 | 1.0 | 5.0 | 1.0 common scab |
| A03921-2Rus** | 529 | 559 | 95 | 5 | 49 | 46 | 1 | 1.090 | 0 | 1 | 1 | 0 | 10 | 1.5 | 3.0 | |
| Silverton Russet*** | 472 | 520 | 91 | 9 | 47 | 44 | 0 | 1.068 | 0 | 1 | 0 | 0 | 10 | 1.8 | 3.3 | 1.0 common scab, tr alligator hide |
| W8152-1Rus** | 458 | 497 | 92 | 7 | 52 | 40 | 1 | 1.079 | 1 | 1 | 0 | 0 | 10 | 2.0 | 3.0 | |
| Russet Norkotah LT*** | 437 | 506 | 86 | 8 | 37 | 49 | 6 | 1.070 | 0 | 1 | 0 | 0 | 10 | 1.2 | 3.8 | heavy netted skin |
| A06021-Trus** | 415 | 472 | 88 | 11 | 49 | 39 | 1 | 1.079 | 0 | 2 | 1 | 0 | 10 | 1.3 | 3.0 | |
| W9133-1Rus* | 384 | 440 | 87 | 13 | 50 | 38 | 0 | 1.071 | 0 | 1 | 1 | 0 | 10 | 1.5 | 3.5 | 0.5 common scab |
| AF4124-7Rus**** | 377 | 439 | 85 | 9 | 47 | 38 | 6 | 1.080 | 0 | 1 | 0 | 0 | 10 | 1.6 | 3.1 | 0.5 common scab |
| Russet Norkotah*** | 330 | 430 | 76 | 24 | 50 | 27 | 0 | 1.072 | 0 | 2 | 0 | 0 | 10 | 2.0 | 2.5 | 0.5 common scab |
| MEAN | 474 | 527 | | | | | | 1.074 | | | | | | | | tr = trace, sl = slight, NA = not available SED=stem end defect, gc=growth crack |

¹SIZE
Bs: < 4 oz.
As: 4 - 10 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING
Date Taken: 28-May-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING
Date Taken: 1-Aug-14
Ratings: 1 - 5
1: Early (Vines Completely Dead)
5: Late (vigorous vine, some flowering)

Planted: 23-Apr-14
Vines Killed: 25-Aug-14
Kill: 124
Seed Spacing: 12"
No fumigation

* Indicates number of replications

⁵MAWN STATION: Mendon
Planting to Vine Kill

2014 Michigan NFPT Trial- Select lines Walther Farms - St. Joseph County

Harvest 20-Sep-14 142 Days

DD, Base 40⁵ 3260

| BREEDER MERIT | LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | TUBER QUALITY ² | | | | TOTAL CUT | VINE VIGOR ³ | VINE MAT ⁴ | COMMENTS | |
|------------------|---------------------------|------------|------------|-------------------------------|----------|-----------|-----------|----------|----------------------------|----------|----------|----------|--------------|----------------------------|--------------------------|------------|--|
| | | US# 1 | Total | US#1 | Bs | As | OV | PO | SP GR | HH | VD | IBS | | | | | BC |
| 2 | MN11026WB-07Rus | 652 | 885 | 74 | 11 | 51 | 22 | 15 | 1.069 | 0 | 7 | 0 | 0 | 10 | 2.0 | 3.5 | severe knobs and points in pickouts, tr alligator hide |
| 2 | AW07791-2Rus | 614 | 771 | 80 | 8 | 42 | 38 | 13 | 1.078 | 0 | 2 | 0 | 0 | 10 | 2.0 | 3.5 | |
| 2 | Dakota Trailblazer | 585 | 654 | 89 | 11 | 54 | 36 | 0 | 1.088 | 0 | 0 | 2 | 0 | 10 | 1.5 | 4.5 | 2.0 common scab |
| 2 | A06914-3CRus | 581 | 722 | 80 | 12 | 50 | 31 | 8 | 1.077 | 0 | 1 | 0 | 0 | 10 | 2.5 | 3.5 | 1.5 common scab |
| 2 | A03921-2Rus | 580 | 615 | 94 | 4 | 53 | 42 | 2 | 1.092 | 0 | 1 | 1 | 0 | 10 | 1.5 | 2.5 | 1.0 common scab |
| 2 | CO05068-1Rus | 560 | 630 | 89 | 10 | 52 | 37 | 1 | 1.087 | 1 | 0 | 0 | 0 | 10 | 2.0 | 4.0 | tubular tuber type, gc in pickouts |
| 2 | MN09152BW-01Rus | 518 | 704 | 74 | 10 | 74 | 0 | 17 | 1.075 | 0 | 4 | 0 | 0 | 10 | 1.0 | 3.5 | |
| 2 | W6234-4Rus | 513 | 546 | 94 | 6 | 53 | 41 | 0 | 1.075 | 0 | 2 | 0 | 0 | 10 | 2.0 | 2.5 | |
| 2 | Premier Russet | 507 | 652 | 78 | 10 | 45 | 33 | 13 | 1.080 | 3 | 2 | 0 | 0 | 10 | 2.5 | 3.0 | misshapen pickouts |
| 2 | A03158-2TERus | 492 | 532 | 92 | 8 | 54 | 39 | 0 | 1.078 | 0 | 2 | 0 | 0 | 10 | 1.5 | 2.5 | tr bottalnecking |
| 2 | MN09107BB-01Rus | 487 | 616 | 79 | 21 | 55 | 24 | 0 | 1.066 | 0 | 6 | 0 | 0 | 10 | 2.0 | 3.0 | points in pickouts, tr alligator hide |
| 2 | W9519-1Rus | 482 | 584 | 82 | 17 | 52 | 30 | 1 | 1.084 | 1 | 0 | 1 | 0 | 10 | 1.5 | 3.5 | 1.0 common scab |
| 2 | A06084-1TERus | 479 | 576 | 83 | 14 | 48 | 35 | 3 | 1.076 | 0 | 1 | 0 | 0 | 10 | 2.5 | 3.0 | bottlenecking, tubular tuber type, 1.0 common scab |
| 2 | Silverton Russet | 477 | 510 | 94 | 5 | 34 | 60 | 1 | 1.066 | 0 | 0 | 0 | 0 | 10 | 2.0 | 3.0 | 1.0 common scab |
| 2 | CO05175-1Rus | 438 | 495 | 88 | 12 | 51 | 37 | 0 | 1.075 | 0 | 2 | 0 | 0 | 10 | 1.5 | 3.5 | 0.5 common scab |
| 2 | A08014-11TERus | 436 | 507 | 86 | 10 | 53 | 32 | 4 | 1.072 | 0 | 4 | 0 | 0 | 10 | 1.5 | 3.0 | misshapen and knobs in pickouts |
| 2 | AF3001-6Rus (Easton) | 435 | 486 | 90 | 9 | 56 | 33 | 1 | 1.072 | 0 | 2 | 0 | 0 | 10 | 2.5 | 3.5 | |
| 2 | W8152-1Rus | 420 | 466 | 90 | 8 | 44 | 46 | 2 | 1.079 | 0 | 2 | 0 | 0 | 10 | 2.0 | 3.0 | 1.5 common scab |
| 2 | CW08071-2Rus | 418 | 516 | 81 | 17 | 59 | 22 | 2 | 1.072 | 0 | 3 | 0 | 0 | 10 | 1.5 | 3.0 | |
| 2 | Russet Norkotah LT | 413 | 483 | 85 | 5 | 31 | 54 | 9 | 1.069 | 0 | 2 | 0 | 0 | 10 | 1.5 | 3.5 | 1.5 common scab, |
| 1 | A06021-1TRus | 413 | 479 | 86 | 14 | 57 | 29 | 0 | 1.083 | 0 | 0 | 1 | 0 | 10 | 1.0 | 2.5 | |
| 1 | AC96052-1Rus | 408 | 554 | 74 | 26 | 62 | 12 | 0 | 1.074 | 1 | 0 | 0 | 0 | 10 | 1.5 | 2.5 | |
| 1 | WND8625-2Rus | 400 | 502 | 80 | 16 | 46 | 34 | 5 | 1.072 | 0 | 5 | 0 | 0 | 10 | 1.5 | 3.0 | 2.0 common scab |
| 2 | AO06191-1Rus | 395 | 432 | 92 | 8 | 33 | 58 | 0 | 1.079 | 0 | 0 | 0 | 0 | 10 | 1.0 | 3.5 | 3.0 common scab |
| 2 | AF4720-17Rus | 370 | 392 | 94 | 6 | 80 | 14 | 0 | 1.085 | 0 | 0 | 0 | 0 | 10 | 2.5 | 2.5 | |
| 2 | AW07049-2Rus | 362 | 446 | 81 | 19 | 73 | 8 | 0 | 1.088 | 1 | 0 | 0 | 0 | 10 | 2.0 | 2.0 | |
| 2 | AW07519-1Rus | 361 | 529 | 68 | 26 | 46 | 22 | 5 | 1.075 | 0 | 2 | 0 | 0 | 10 | 1.5 | 3.5 | misshapen pickouts |

Continued on Next Page

| BREEDER MERIT | LINE | CWT/A | | PERCENT OF TOTAL ¹ | | | | | SP GR | TUBER QUALITY ² | | | | TOTAL CUT | VINE VIGOR ³ | VINE MAT ⁴ | COMMENTS |
|------------------|------------------------|------------|------------|-------------------------------|-----------|-----------|-----------|----------|--------------|----------------------------|----------|----------|----------|--------------|----------------------------|--------------------------|---|
| | | US# 1 | Total | US#1 | Bs | As | OV | PO | | HH | VD | IBS | BC | | | | |
| 2 | AO02060-3Rus | 357 | 406 | 88 | 12 | 59 | 29 | 0 | 1.076 | 1 | 3 | 0 | 0 | 10 | 1.5 | 2.5 | |
| 2 | A07103-1TRus | 346 | 469 | 74 | 23 | 45 | 29 | 3 | 1.079 | 1 | 0 | 0 | 0 | 10 | 2.0 | 2.5 | gc, 2.0 common scab |
| 2 | AW07978-2Rus | 340 | 378 | 90 | 7 | 64 | 26 | 2 | 1.080 | 0 | 0 | 0 | 0 | 10 | 1.5 | 3.5 | |
| 2 | A08014-9TERus | 328 | 426 | 77 | 23 | 64 | 13 | 0 | 1.073 | 0 | 1 | 0 | 0 | 10 | 2.0 | 2.0 | |
| 2 | ND049546b-10Rus | 317 | 356 | 89 | 9 | 29 | 60 | 2 | 1.074 | 0 | 1 | 0 | 0 | 10 | 1.0 | 3.0 | heavy netted skin |
| 2 | AF4953-6Rus | 294 | 382 | 77 | 8 | 38 | 39 | 15 | 1.079 | 0 | 1 | 0 | 0 | 10 | 1.5 | 3.0 | knobs and misshapen pickouts, 0.0 common scab |
| 2 | Russet Norkotah | 276 | 383 | 72 | 28 | 37 | 35 | 0 | 1.071 | 0 | 0 | 0 | 0 | 10 | 2.5 | 2.0 | 2.0 common scab |
| 2 | MN10053BW-01Rus | 263 | 462 | 57 | 43 | 46 | 11 | 0 | 1.077 | 0 | 1 | 0 | 0 | 10 | 2.5 | 3.0 | 1.0 common scab |
| 2 | CO06057-2Rus | 170 | 464 | 37 | 24 | 37 | 0 | 40 | 1.076 | 0 | 1 | 0 | 0 | 10 | 2.0 | 2.5 | gc in pickouts, heavy netted skin |
| MEAN | | 430 | 528 | | | | | | 1.077 | | | | | | | | |

tr = trace, sl = slight, NA = not available
 SED= stem end defect, gc=growth crack

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Planted: 23-Apr-14
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⁵MAWN STATION: Mendon
 Planting to Vine kill

2014 MSU Tablestock Potato Variety Trials

Russet type

| Entry | Pedigree | 2014 Scab Rating* | Characteristics |
|-------------------------------|-----------------------------------|-------------------|---|
| Goldrush Russet (ND1538-1Rus) | ND450-3Rus X Lemhi Russet | 0.8** | Medium maturity, oblong-blocky to long tubers, bright white flesh, common scab resistance, average yield potential |
| Russet Norkotah (ND534-4Rus) | ND9526-4Rus X ND9687-5Rus | 1.8 | Average yield, mid-season maturity, long to oblong tubers, heavy russet skin, low specific gravity |
| Russet Norkotah LT | Russet Norkotah Line Selection | 2.2** | Above average yield, medium to medium-late maturity, long to oblong tubers, heavy russet skin, low specific gravity, better vigor than standard Russet Norkotah |
| Silverton Russet (AC83064-6) | A76147-2 X A 7875-5 | 1.6 | High yield, oblong to long blocky tuber type, medium netted russet skin, masks PVY, medium specific gravity, possible Sencor & Linuron susceptibility |
| Reveille (ATX91137-1Rus) | Bannock Russet X A83343-12 | 1.1 | Common scab tolerant, some incidence of growth defects, high yield potential |
| A03921-2Rus | - | 1.9 | High specific gravity, medium yield potential, common incidence of eye-browning |
| A06021-1TRus | - | 1.0 | Medium yield potential, prominent lenticels, common scab tolerance |
| AF3362-1Rus | Reeves Kingpin X Silverton Russet | 1.0 | A long russet with good yield, processing potential and generally good appearance, common scab tolerance, early bulking potential, medium russet skin |
| AF4124-7Rus | A8469-5 X SC9512-4 | 1.8 | Below average yield potential, good internal quality |
| AF4320-7Rus | A99081-8 X A97214-4 | 2.4 | Common scab susceptible, good yielding variety |

*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. **2012 Data. Common Scab data provided by MSU Potato Breeding and Genetics Program.

| | | | |
|-------------|--------------------------------|-----|---|
| AF4152-7Rus | - | - | Medium yield potential, misshapen pickouts |
| W8152-1Rus | A93004-3Rus X CO94035-15Rus | 1.6 | High yield potential, blocky shape, high specific gravity, long storage potential |
| W9133-1Rus | ND4093-4Rus X CO82147-4Rus | 1.0 | High yield, medium to late maturity, common scab tolerant, susceptible to verticillium wilt and early blight |
| W9433-1Rus | Calwhite X A96023-6 | 1.3 | Light russet skin type, less internal defects than Russet Norkotah, tolerance to verticillium wilt and early blight, medium-late maturity, oblong to long blocky tuber type |

*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. **2012 Data. Common Scab data provided by MSU Potato Breeding and Genetics Program.