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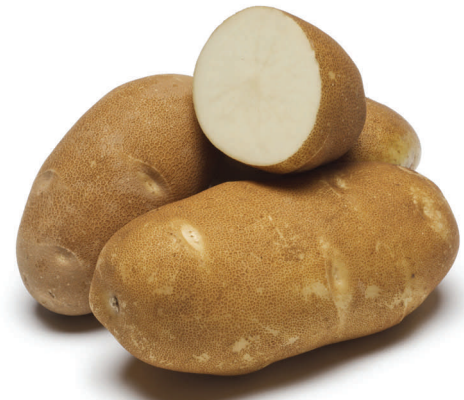
Time to order mini-tubers
for 2011 and 2012

CLASSIC RUSSET - HARVEST CONSIDERATIONS

MJ Pavek – Washington State University

Sept 2010

Classic Russet is susceptible to shatter bruise at harvest. Shatter, mechanical cracking, thumbnail cracks, and air checks are terms that refer to hairline fractures in the tuber that typically result when turgid tubers collide with a solid surface. Susceptibility to shatter is often variety specific and heavily influenced by a variety's genetics. Genetic potential plus the environmental conditions conducive for shatter can be devastating to a grower's pocket book. Shatter can reduce marketability and lead to excessive rot in storage.



Turgid tubers (firm, well hydrated, high fluid content) are more susceptible to shatter bruise than flaccid tubers. To prevent shatter:

- 1) Your goal should be to dehydrate (reduce turgor) the tubers to a level that will minimize shatter
- 2) Warm temperatures and dry soils facilitate dehydrating tubers
- 3) Best to harvest tubers when it is warm (pulp temp as warm as possible ~ 65F might be ideal)
- 4) Allow 14-21 days after vine kill
- 5) If possible, irrigate just prior to harvest to reduce bruising from clods, etc.
- 6) Follow steps outlined in "Preventing Potato Bruise Damage" by Mike Thornton & Bill Bohl located at:

www.cals.uidaho.edu/edcomm/pdf/BUL/BUL0725.pdf

- 7) Review also: "Thumbnail Cracks of Potato Tubers" By Bill Bohl & Mike Thornton, located at: www.cals.uidaho.edu/edcomm/pdf/CIS/CIS1129.pdf

If the Classic Russet tubers are to be stored, growers should monitor often during the first couple months of storage to assess if there are going to be any rot issues. This might be obvious by the presence or lack of shatter and soft rot going into storage.

**CLOSE OBSERVATION OF TUBER CONDITION GOING INTO STORAGE IS
CRUCIAL FOR SUCCESSFUL STORAGE WITH CLASSIC RUSSET!**

See Page 4 for Classic Russet Fresh Packaging recommendations.

Promising new dual purpose line A0008-ITE shows potential as excellent yielding, early, fresh market russet

A0008-ITE is a cross between *Blazer Russet* and *Classic Russet* and has been noted as both a fresh market and processing standout in the 2009 Potato Cultivar Evaluations compiled by the WSU Potato Research Group. **A0008-ITE** performed well in both early and late trials in several locations in the Pacific Northwest. It out yielded all other clones included in the early trials with a high percent of US Number Ones. Also its combined merit score was significantly higher than all others in the trial including *Ranger*, *Russet Burbank* and *Russet Norkotah*. The tubers are oblong with moderate russet, good skin and shallow eyes. The fry color is light and uniform.



DISEASE RATINGS

Vert. Wilt	susceptible
Common Scab	resistant
PVY^o	mod susceptible
Net Necrosis	mod resistant
Late Blight Foliar	susceptible
Late Blight Tuber	mod susceptible
Dry Rot	resistant
Soft Rot	mod susceptible
Corky Ringspot	mod resistant
PLRV	mod susceptible

This line can be used either for fresh pack or processing and has an average specific gravity of 1.082. This line shows resistance to dry rot but is soft rot and shatter bruise susceptible. In the Idaho trial there was an incidence of hollow heart and this needs to be managed for.

	Total Yield	U.S. No 1's	>12oz	Tuber Size	Specific Gravity	Hollow Heart
	cwt/A	-----%		oz.		%
Idaho ¹						
A0008-ITE	395	85	16	7.6	1.081	12
Russet Burbank	452	58	15	6.8	1.077	6
Oregon ²						
A0008-ITE	638	83	24	8.1	1.079	4
Russet Burbank	804	59	13	7.3	1.084	1
Washington ³						
A0008-ITE	586	87	28	7.8	1.078	0
Russet Burbank	592	76	18	6.8	1.079	5

For more information stop by the **University of Idaho Cultivar Exhibition** at the Idaho Potato Conference in Pocatello, ID, Jan 18—20, 2011.

Information provided by the Tri-State Research & Breeding Program.

¹ 6 Trials grown in Idaho, 2005-2009, at Aberdeen and Kimberly

² 6 Trials grown in Oregon, 2006-2009, at Hermiston, Klamath Falls, Malheur.

³ 5 Trials grown in Washington, 2006-2009, at Othello.

Terra Rosa a red skinned and red fleshed oblong specialty fresh potato

TerraRosa (POROIPG20-12) is a mid season specialty potato with red skin and red flesh. This selection is unique among commercially available varieties for the oblong tubers with a very high culinary quality. Tubers are ideal for microwave, frying or baking. Chips made from **TerraRosa** retain their rosy color and resist fading.

Tubers are smooth with shallow eyes that are well distributed across the tuber. **TerraRosa** produces somewhat lower yields than *Dark Red Norland* and *Red LaSoda* in regional specialty trials conducted in 2006 and 2007.

TerraRosa needs to be handled gently to prevent skinning during harvest. It has few surface blemishes and internal problems, significantly less than those found on *Red LaSoda*.

TerraRosa has only medium storage capability and medium to high fertility requirements. It has been found to be resistant to Metribuzin.

- **High specific gravity**
- **Excellent Culinary Quality**
- **Few Tuber Defects**

Mini-tubers will be available in spring, 2011 from Lorie Ewing at the University of Idaho, Potato Lab.
lewing@uidaho.edu :: 208 885 6663

Disease Ratings

Early dying	resistant
Scab	resistant
PVY	mod susceptible
PLRV	resistant
Net Necrosis	mod resistant
Late Blight Foliar	susceptible
Late Blight Tuber	susceptible



**POTATO VARIETY
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Up and Coming Events

Nov 9—10, 2010

**Montana Potato Growers
Annual Meeting**

Grantree Inn, Bozeman, MT
Contact: 406.994.3150

January 5-7, 2011

Potato Expo

Las Vegas, NV
Contact: 202.682.9456
questions@potato-expo.com
Registration will open August
31, 2010.

January 18-20, 2011

Idaho Potato School
ISU, Pocatello, ID

January 25-27, 2011

**Washington-Oregon Annual
Potato Meetings**
Tri-Cities Convention Center,
Kennewick, WA

February 1, 2011

**Tri-State Technical Meet-
ing**, Best Western Vista Inn,
Boise, ID

Classic Russet taking off as a Norkotah Replacement, needs proper skin set before fresh pack

Released by the Tri-State Research & Breeding Program in 2009, *Classic Russet* (A95109-1) is being grown in larger acreage this year in Idaho, Colorado, and the mid-west. Sun-Glo of Idaho Inc., as reported by Rand Green of *The Produce News*, quotes Bruce Crapo, the chief financial officer of this Rexburg, ID company, "They (*Classic Russet*) are somewhat comparable to the *Norkotah* in that they have a higher percentage of No. 1s, compared to *Burbanks*, and they seem to size up better. They are similar to *Norkotah* in appearance and size but it appears they have a higher specific gravity than the *Norkotahs* making them possible for early processing and better baked potato and making a better french fry.

Observations during this season's harvest have bore out what was found in California last year, that is *Classic Russet* needs proper skin set prior to packing for fresh market. This means they should not be packed directly out of the field. Once harvested *Classics* should be held in storage first and not packaged until they are well cured.

Time to order Mini-Tubers for 2011 and 2012

Mini-tuber Varieties Available for Spring 2011 From the University of Idaho

Alpine Russet*	AmaRosa	Alturas
Bannock Russet*	A01010-1	Highland Russet
Classic Russet*	A99331-2RY	Clearwater Russet
Defender*	POR02PG37-2	Ivory Crisp
IdaRose*	PA99N82-4	Ranger Russet
Owyhee Russet*	PA99N2-1	Premier Russet
Russet Burbank*	A98345-1	Yukon Gem
Western Russet	A00324-1	A99326-1PY
A0008-ITE*	A0073-2	Blazer Russet
Yukon Gem	A0012-5	AmaRosa
Red Sunset	Sage Russet	TerraRosa

Please submit requests to Lorie Ewing 208-885-6663
lewing@uidaho.edu

For 2012 orders of mini-tubers of long dormancy types, starred above, need to be ordered ASAP. All others should be ordered by January 15, 2011. Contact Lorie Ewing for more information. Please note because of funding restrictions a deposit of half the cost of the mini-tubers will be due at the time of ordering.