

Yukon Gem

Yellow flesh with better yields

- Higher Yields than Yukon Gold
- Disease Resistance
- Culinary Qualities
Brodict X Yukon Gold

DISEASE

| | |
|--------------------|-----------------|
| Verticillium | susceptible |
| Common Scab | mod resistant |
| PVY | resistant |
| Net Necrosis | resistant |
| Late Blight Foliar | mod resistant |
| Late Blight Tuber | resistant |
| Dry Rot | mod resistant |
| Soft Rot | mod susceptible |
| Pink Rot | resistant |

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Released in 2006, this round-oblong, yellow-fleshed variety is very similar to its parent, *Yukon Gold*. However, **Yukon Gem** has higher yield potential and is resistant to PVY^o and more resistant to scab than *Yukon Gold*. Merit rating for fresh pack characteristics including post harvest evaluations for boiling, baking, and microwave qualities were comparable to *Yukon Gold*. Tubers of **Yukon Gem** exhibit good chip color, but its lower specific gravity may limit its use for this purpose. Yukon Gem has a moderately low specific gravity and good resistance to tuber malformation and most internal and external defects; its tubers exhibit little or no after-cooking darkening. Yukon Gem has a low to medium tuber set, with optimal size profile.

Fertilization

Nitrogen response studies were conducted using five application rates (0, 90, 180, 270, 360 lb N/acre with half of total N applied pre-plant with the remainder divided into three equal applications at 2 week intervals starting at tuber initiation with pre-plant available soil nitrate 20 lb N/acre in 2007 and 30 lb N/acre in 2008. Results indicated that 270 N/acre total gave the best USNo.1 yield response. **Yukon Gem** yield response is about 10%

more than Russet Burbank. Excessive nitrogen can lower yield and quality and prolong maturation. Higher nitrogen levels can also lower specific gravity. Yukon Gem has moderately low Specific Gravity levels.

Spacing

Total and U.S.No.1 Yield of Yukon Gem is optimized at the 8-10” in-row spacing with 36”between row centers and a planting depth of 5-6 inches . Smaller tuber size is desired for fresh market yellow fleshed tuber types.

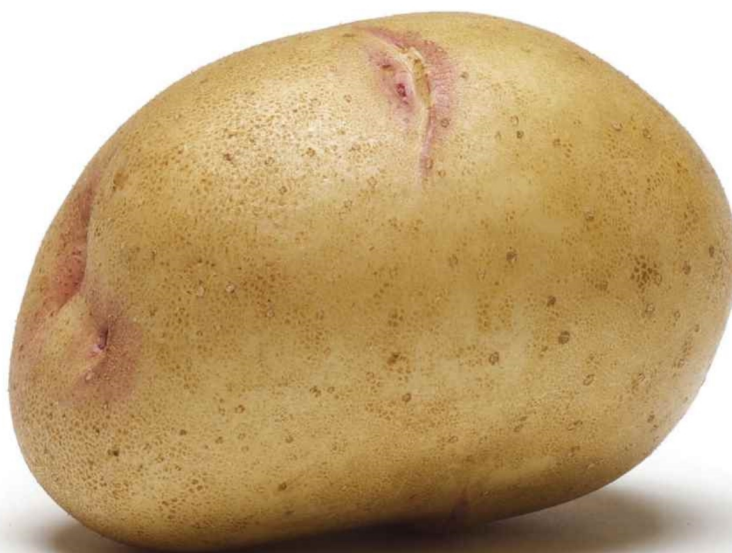
Yukon Gem also has good resistance to stress-related tuber defects such as growth cracks, second growth and hollow heart.

Weaknesses:

- Low specific gravity

Other Notes:

Metribuzin resistance for **Yukon Gem** is good at normal application rates.



The information contained within this flyer was supplied by researchers of the Northwest Potato Variety Development Program and their collaborators.