

TOMATO VARIETY TRIALS for Northern Idaho

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Growing tomatoes in northern Idaho is generally unrewarding. The common varieties do not ripen well, if at all, during most seasons. In an attempt to find some early maturing, cold tolerant tomato varieties for use in northern Idaho and at higher elevations, seeds were solicited from seedsmen and breeders in the northern United States and throughout Canada. As a result, 76 varieties were planted at Moscow and Sandpoint.

Sixteen varieties were kept for additional testing. Of these, a few were good enough to recommend for trial in home gardens. Sub-Arctic Delight is a very early cherry tomato. The fruit tends to be acidic, but is of good quality for salads. It bears heavily. The plant is small and could be used in container cultures or as an ornamental in a border planting. Seed Sub-Arctic Delight in peat pots to eliminate transplanting.

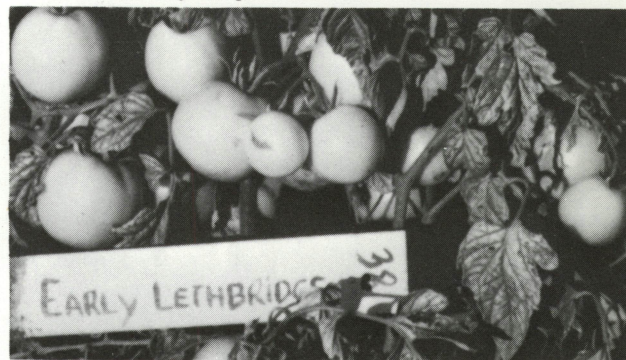
Rocket and Immun Prior are a few days later than Sub-Arctic Delight, but are larger fruited. Rocket seemed especially good. Both varieties had a fair set on rather viny plants. The fruits of Rocket are a deep red, whereas the Immun Prior fruits are light colored.

Other varieties of interest are Scotia, Coldset, Swift, Early Lethbridge, Kenealy, Mini Rose and New Yorker. With the exception of Mini Rose, these are larger tomatoes and would probably yield well most seasons. Mini Rose is a small cherry tomato of interest as a curiosity. Kenealy is a dwarf of

the Payette type. It would be useful in pot culture. New Yorker is a large tomato of very good quality that could be used as a main crop in warmer areas.

This trial program was conducted primarily for the home gardener. Some of the varieties could, however, be used as an early crop for the fresh market. The grower would, perhaps, want to try a number of varieties to see which one might fill his needs best.

In the table that follows comments are made on each variety in the trials. Seed sources are given for the more promising varieties for the cooler parts of the state. Seed supplies may be limited on some of the varieties, but if interest is shown more seed will most likely be produced for 1972.



TOMATO VARIETIES

Varieties	Source	Comments		
		Moscow		Sandpoint
		Sept. 1	Sept. 11	Sept. 4
Chanasyk Early*	Horticultural Research Institute Vineland Station, Ontario, Canada	Large cherry to 1-1/2", very heavy set, about 5% ripe, some leaf curl	50% ripe	Mosaic, cherry 1-1/2", 75-80% ripe
S11-1	Same as above	Long, un-uniform shape, large, relatively heavy set, no ripe fruit	None ripe	Leaf curl, long pepper shape, large, sunscald, 5% ripe
S10-1	Same as above	Long banana shaped, medium sized, fair set, no ripe fruit	None ripe	Leaf curl, long banana shape, large, 5% ripe
S8-1	Same as above	Long blotchy fruit, large, fair set, no ripe fruit	None ripe	Leaf curl, long pepper, large, 1% ripe
V709	Same as above	Large, round fruit, scattered ripening fruit, good set, mosaic	5% ripe	Leaf curl and mosaic, round, medium size, 15% ripe
V701	Same as above	Large, round fruit, good set, 5% ripe, some mosaic, some leaf curl	5% ripe	Leaf curl and mosaic, round, medium ripening
Maliutka	Same as above	Medium sized, elongated, fruit smooth, vine healthy, about 5% ripe	5% ripe	Mosaic, cherry, some ripening, green shoulders, looks good
V676	Same as above	Mosaic & leaf curl, small elongated fruit, scattered ripening, fair set	1% ripe	Leaf curl & mosaic, elongated, 20% ripe
V688	Same as above	Some leaf curl, good set, large, round fruit, no ripening	1% ripe	Mosaic, round, few ripe
Vision	Same as above	Some leaf curl, large round fruit, fair set, none ripe	1% ripe	Mosaic, large round, some sun burned, 10% ripe

*Varieties retained in trials for 1971

Varieties	Source	Moscow		Sandpoint
		Sept. 1	Sept. 11	
				Sept. 4
Veset	Hort. Res. Inst. See address p. 1	Vines healthy, large round fruit, fair set, scattered ripening	1% ripe	Mosaic and leaf curl, medium large, few ripe
14QA	Same as above	Large, elongated fruit, healthy vines, no ripening	None ripe	Leaf curl, elongated, few ripe
V696	Same as above	Healthy plants, large round fruit, none ripening	None ripe	Leaf curl, large medium round, few ripe
Sub-Arctic Delight ^{*1}	Same as above	Dwarf vine, cherry fruit to 1-1/2" dia., very highly set, first ripening date July 25, 10% ripe, vine relatively healthy	50% ripe	Mosaic, cherry, nearly 100% ripe or ripening, best early cherry
T30 CD [*]	Same as above	Small, heavy set fruit, non-acid, 5% ripe, leaf curl and mosaic	10% ripe	Leaf curl and mosaic, small to medium, 50% ripe or ripening, green shoulders, good taste
T24 GC	Same as above	Elongated fruit, rough medium size, tough texture, sunscald, some ripening, tough skin	10% ripe	Leaf curl, elongated, cherry, 35% ripe, hard as a rock
T15 AB	Same as above	Elongated fruit, medium size, tough texture, sunscald, some ripening, tough skin	10% ripe	Leaf curl, elongated, cherry, 35% ripe, hard as a rock
V672 [*]	Same as above	Some mosaic, some leaf curl, very heavy set, large round fruit, 5% ripe	50% ripe	Leaf curl, mosaic, cherry, 50% ripe, poor vine, poor flavor
Kenmore	Canada Agr. Res. Station Kentville, Nova Scotia, Canada	Leaf curl, medium round fruit, no ripening	1% ripe	Leaf curl, mosaic, medium, few ripe
Kenearly ^{*1}	Same as above	Dwarf vine, healthy plant, medium large fruit, very heavy set, some ripening	20% ripe	Very dwarfed, mosaic, some ripening
K-65-11 [*]	Same as above	Some leaf curl & mosaic, 5% ripe, heavy set, medium round fruit	25% ripe	Mosaic, medium, round, 20% ripe, vine poor
Scotia ^{*2}	Same as above	Medium round fruit, healthy vine, fair set, first cluster ripe	20% ripe	Leaf curl, medium round, green shoulder, 20% ripe
K64-17	Same as above	Some mosaic and leaf curl, large, round fruit, dwarfed plant, about 5% or more ripe	5% ripe	Leaf curl and mosaic, round, medium, 10% ripe
Early Lethbridge [*]	Canada Agr. Res. Station, Morden, Manitoba, Canada	Medium large fruit, 25% ripe, heavy set, some leaf curl, some mosaic	35% ripe	Leaf curl and mosaic, medium, round, 10% ripe
Meteor	Same as above	Large, round fruit, good set, scattered ripening, some leaf curl	5% ripe	Leaf curl, medium large, round, 10% ripe
Manitoba	Same as above	Large, round fruit, good set, scattered ripening, some leaf curl	10% ripe	Leaf curl and mosaic, red, round, 10% ripe
Coldset ^{*1}	Same as above	Medium, large round fruit, good set, severe leaf curl, scattered ripening	20% ripe	Vines poor, small medium fruit, 5% ripe
Starfire	Same as above	Large, round fruit, heavy set, dwarfish plant, some leaf curl, scattered ripening	5% ripe	Leaf curl, mosaic, medium, few ripe, looks good
Morden Yellow	Same as above	Healthy plants, medium sized fruit, fair set, yellow flesh, mild flavor	1% ripe	Good vines, yellow, medium, 25% ripe, good fruit
Redskin	Same as above	Dwarfish plant, elongated fruit, good set, 5% ripe, good flavor, firm when ripe, some mosaic & leaf curl	5% ripe	No good
Morden BB3	Same as above	Some leaf curl, large round fruit, scattered ripening	1% ripe	Leaf curl, round, large-medium, 10% ripe
Rocket ^{*1 5}	Same as above	Some mosaic & leaf curl, very heavy set, first ripe fruit Aug. 1, 50% ripe, sweet & flavorful, fruit size un-uniform, mostly 2"	75% ripe	Poor vines, mosaic, 100% ripe

**Varieties retained in trials for 1971*

¹Seed available from Lowden Seed & Plant Co., Ancaster, Ontario, Canada

²Seed available from Early Seed & Feed Ltd., 198 Idylwyld Drive, Saskatoon, Saskatchewan, Canada, and Stoken Seed, Ltd., St. Catharines, Ontario, Canada

⁵Seed available from T & T Seeds, 120 Lombard Ave., Winnipeg, Manitoba, Canada, and Lindenberg Seeds, 803 Princess St., Brandon, Manitoba, Canada

Varieties	Source	Comments		
		Sept. 1	Sept. 11	Sept. 4
Swift ^{*2}	Canada Agr. Res. Station, Swift Current, Saskatchewan, Canada	Some leaf curl, heavy set, dwarfed vine, medium round fruit, 10% ripe	25% ripe	Fair vine, medium large, round, 10% ripe
Immun Prior ^{*3}	Canada Agr. Res. Station, Ottawa, Ontario, Canada	Healthy plants, straggly vine, 2" fruit, first ripe July 25, heavy set, 50% ripe	60% ripe	Good vine, very early, good producer, small, 1-1/2 - 2" does well here
Puck	Same as above	Dwarf plant, healthy, heavy set, no ripening	5% ripe	Healthy, round, small-medium, 10% ripe
Bellevue Busk	Same as above	Medium, round fruit, little leaf curl, some ripening, good set	10% ripe	Leaf curl & mosaic, small-medium, 10% ripe
Maliutka	Same as above	Small, elongated fruit, fair set, some leaf curl, some ripening	5% ripe	Mosaic & leaf curl, elongated, large cherry, green shoulders, 20% ripe
Ottawa 6	Same as above	Medium, round fruit, heavy set, scattered ripening, some mosaic and leaf curl	5% ripe	Mosaic & leaf curl, round, poor shape, 10% ripe
Ottawa 86	Same as above	Large, round fruit, some leaf curl & mosaic, scattered ripening	None ripe	Leaf curl, round, medium, few ripe
Ottawa 50	Same as above	Some leaf curl, medium, round fruit, scattered ripening.	5% ripe	Good vine, medium, round, 5% ripe
Mini Rose ^{*4}	Same as above	Very small, less than 1", deep red fruit, fair set, about 10% ripe, good flavor, very early, first fruit July 25, some leaf curl	20% ripe	Good vine, small cherry, very early, many ripe but many to go
Sub-Arctic Delight ^{*1}	University of Guelph Guelph, Ontario, Canada	Strain appears more dwarfed than previous description on page 2, heavy set, small fruit, severe mosaic	75% ripe	Different strain, very small plant, mosaic, 80% ripe
Crimson Sprinter	Same as above	Large vine, some leaf curl, medium fruit, medium set, none ripe	None ripe	Leaf curl, medium fruit, very pretty, few ripe
Cold Set	Same as above	Some mosaic, more dwarfed than spring set, medium fruit, good set, 10% ripe	10% ripe	Poor vines, medium, 10% ripe
Supreme	Sakota Seed Co. Yokohama, Japan	Severe 2,4-D damage, some leaf curl, no good	None ripe	Leaf curl, medium, few ripe
Surprise	Same as above	Some leaf curl, none ripe, good set	1% ripe	Leaf curl, large fruit, few ripe
Avalanche	Same as above	Some leaf curl, large fruit, medium set, scattered ripening	1% ripe	Leaf curl, large-medium fruit, few ripe
Pink 6	Same as above	Large vine, some leaf curl, medium fruit, medium set, none ripening	None ripe	Leaf curl, medium, green shoulders, few ripe
Pink 17	Same as above	Large vine, medium fruit, medium set, some leaf curl, no ripening	None ripe	Severe leaf curl, medium fruit, poor set, few ripe
Pink 18	Same as above	Large vine, small fruit, poor set, none ripe	None ripe	Leaf curl, medium fruit, few ripe
Sun-up	Same as above	Large vine, healthy, large fruit, fair set, no ripening	None ripe	Leaf curl and mosaic, medium, 5% ripe
North Dakota 9146	North Dakota State University, Fargo, North Dakota	Healthy vine, large fruit, heavy set, round, none ripe	None ripe	Medium-large, leaf curl, few ripe
NDES 56-1	Same as above	Severe leaf curl, some mosaic, round large fruit, 5% ripe, heavy set	15% ripe	Mosaic, poor vine, medium, lots of "dud" fruit, 10% ripe
Sheyenne	Same as above	Lots of leaf curl, fair set, large fruit, scattered ripening	10% ripe	Leaf curl, medium fruit, 5% ripe
ND 1150	Same as above	Some leaf curl, medium-round fruit, scattered ripening	1% ripe	1-1/2" globe, mosaic, fair vine, 10-20% ripe

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² Seed available from Early Seed & Feed Ltd., 198 Idylwyld Drive, Saskatoon, Saskatchewan, Canada, and Stoken Seed, Ltd., St. Catharines, Ontario, Canada

³ Seed available from Norsk Fro, Oslo, Norway

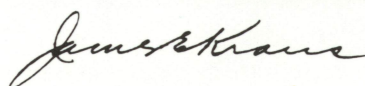
⁴ Seed available from W. H. Perron & Co., Ltd., 515 Labelle Boul., Chomeday (Laval), Prov. of Quebec, Canada

Varieties	Source	Comments		
		Sept. 1	Moscow Sept. 11	Sandpoint Sept. 4
Moreton Hybrid	Harris Seed Co. Rochester, New York	Some leaf curl, large fruit, sparse set, no ripening	1% ripe	Leaf curl and mosaic, large, few ripe
New Yorker* ⁶	Same as above	Severe leaf curl, medium round fruit, heavy set, 10% ripe	25% ripe	Mosaic, vine poor, medium, 10% ripe
Springset	Same as above	Medium, round fruit, some leaf curl, heavy set, scattered ripening	10% ripe	Vine fair, medium, 10% ripe
Fireball	Same as above	Severe leaf curl, medium- large fruit, 10% ripe, heavy set	10% ripe	Mosaic, medium fruit, vine poor, 10% ripe
Red Cherry	Same as above	Cherry type, some leaf curl, poor set, scattered ripening	1% ripe	Leaf curl, cherry type, 10% ripe
Valiant	Same as above	Healthy vine, medium fruit, good set, scattered ripening	1% ripe	Leaf curl, medium fruit, few ripe
Rutgers	Asgrow Company Rochester, New York	No set, large vine, lots of leaf curl	None ripe	Severe leaf curl, poor set, none ripe
Sparks Earliana	Northrup, King Co. Minneapolis, Minn.	Medium fruit, severe leaf curl, scattered ripening, fair set	10% ripe	Severe leaf curl, mosaic, medium, cracks, 5% ripe
Sioux	Same as above	Large, round fruit, medium set, some leaf curl, none ripe	1% ripe	Leaf curl, large, medium cracks, 5% ripe
Yellow Pear	Burpee Seed Co. Riverside, Calif.	Very viney, small fruit, fair set, some leaf curl, scattered ripening	1% ripe	Leaf curl, pear shape, yellow, few ripe
VF-65	Univ. of California Davis, Calif.	Long banana shaped fruit, medium size, none ripe, fair set, some leaf curl	None ripe	Good vines, banana shaped, few ripe
Calmart	Same as above	Some leaf curl, medium fruit, poor set, none ripe	None ripe	Mosaic, round, medium, none ripe
Pakmore	Same as above	Large, round fruit, some leaf curl, no ripening	None ripe	Leaf curl, late, large, round, none ripe
Ace	Lily Seed Co. Portland, Oregon	Large vine, some leaf curl, large fruit, poor set, none ripening	None ripe	Good vine, late, none ripe
C-5	USDA Agr. Research Service Prosser, Wash.	Medium, round fruit, healthy vine, fair set, first cluster ripe	10% ripe	No good
Immun Prior Beta*	Dr. D. R. Bienz Washington State Univ. Pullman, Wash.	2" fruit, some leaf curl, good set, 25% ripe	75% ripe	
P109	Univ. of Idaho Branch Expt. Sta. Parma, Idaho	Healthy plants, large round fruit, no ripening, dwarfed	None ripe	Healthy, some ripe
297-1	Same as above	Healthy plant, small round fruit, poor set, none ripe	None ripe	Leaf curl & mosaic, round, irregular, few ripe, medium, large
290-3	Same as above	Leaf curl, medium round fruit, no ripening	None ripe	Vines healthy, round, medium, few ripe
2-68	Same as above	Healthy vines, large round fruit, scattered ripening	1% ripe	Vines healthy, round, medium, 5% ripe
302-1	Same as above	Dwarf plant, some mosaic & leaf curl, medium, round fruit, poor set, no ripening	1% ripe	Leaf curl & mosaic, small- medium, few ripe

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⁶ Seed available from Harris Seed Co., Rochester, New York

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