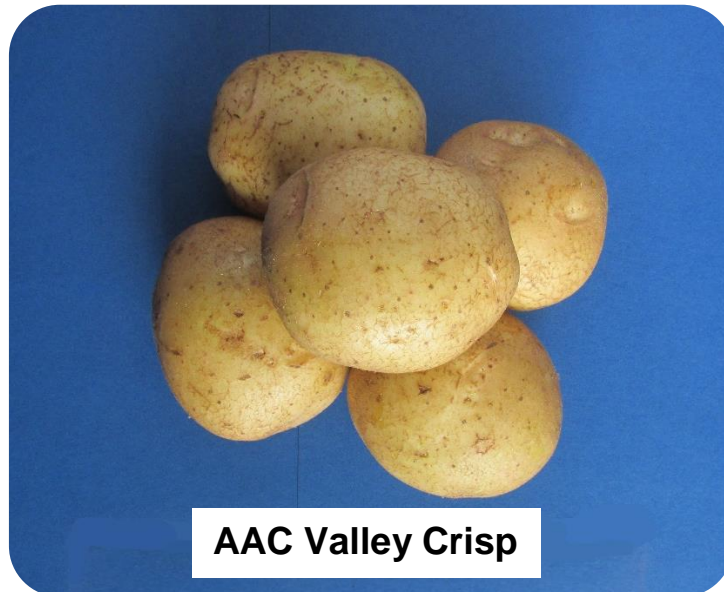


AAC VALLEY CRISP (F08011)

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Parentage: F00084 X C57232-4

**Breeder: Agriculture & Agri-Food Canada, Fredericton, NB
(T. Richard Tarn; Benoit Bizimungu)**

- Late mid-season maturity
- Moderate plant vigour
- Tubers are round to oval, medium size with average appearance
- Smooth white skin and cream flesh
- Average number of eyes of intermediate depth
- Resistant to scab
- Moderate blackspot bruise score
- Carries a marker associated with resistance to Golden Nematode Ro1
- Good boil and fair bake quality
- Short dormancy; earlier than Atlantic
- Chip colour throughout the storage season is similar but slightly better than Snowden at 45°F and 50°F
- Ability to maintain chip colour 8 - 9 months in storage and potentially longer



2-Year Average Production Data from Dryland Variety Trials (2013 & 2014)

- ❖ Trialled at 180lbs N/acre and a 10" spacing
- Total yield was 394.5 cwt/acre, 2.5% more than Snowden
- Marketable yield was 359.1 cwt/acre, 23.8% more than Snowden
- Smaller tuber size distribution with 25.5% > 2 3/4" vs 45.6% for Snowden
- Similar tuber set as Snowden
- Very low incidence of internal and external defects
- Low incidence of sunburn
- High specific gravity at 1.0923, 6 points less than Snowden

Data Recommendations After 3 Years in the Best Management Trial (2016, 2017 & 2020)

- Three levels of nitrogen 140, 160 and 180 lbs/ac and three spacings 8, 10, and 12" were included in this trial

Recommendation for seed:

- 8" at 160 lbs of N/ac

Recommendation for processing/tablestock:

- 12" at 180 lbs of N/ac
- Monitoring tuber size before top-kill is very important to prevent 20% of the total weight being >2^{3/4}"

Seasonal Average Chip Color
(Agtron readings)

Table 1(a): **AAC Valley Crisp vs Snowden at 50°F**

Year	Variety	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	AVG
2013	AAC Valley Crisp		67	66	67	69	71	67	70	68	-	68.1
2013	Snowden		69	65	68	70	68	68	68	63	-	67.4
2014	AAC Valley Crisp		73	70	72	72	73	72	72	69	70	71.4
2014	Snowden		72	73	70	71	66	64	68	67	64	68.3

Table 1(b): **AAC Valley Crisp vs Snowden at 45°F**

Year	Variety	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	AVG
2013	AAC Valley Crisp			66	69	67	66	64	67	70	71	67.5
2013	Snowden			63	68	66	69	67	71	70	66	67.5
2014	AAC Valley Crisp			70	68	69	67	74	69	68	70	69.4
2014	Snowden			68	68	68	69	69	70	68	60	67.5

Based on information provided by the breeder, trial data collection by NBDAAF and from commercial fields. Observations and results may vary slightly depending on location and crop season growing conditions