

## Comparison of tolerances for categories and classes, and their designation, in UNECE, EU and national standards for seed potatoes

	UN ECE Standard						CANADA							
	Pre-basic TC	Pre-basic	Basic class I	Basic class II	Certified class I	Certified class II	Nuclear	Pre Elite	Elite I	Elite II	Elite III	Elite IV	Foundation	Certified
<b>1. Crop tolerances</b>														
Globodera rostochiensis (soil tolerance)	0	0	0	0	0	0	0 (pest-focused)	0 (pest-focused)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)
Globodera pallida (soil tolerance)	0	0	0	0	0	0	0 (pest-focused)	0 (pest-focused)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)	0 (pest-focused rather than soil tolerance)
Black leg (%)	0	0	0.5	1	1.5	2	0	0	0.1 / 0.1 <sup>1</sup>	0.2	0.3	0.5	1	3 / 2 <sup>1</sup>
Synchytrium endobioticum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clavibacter michiganensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ralstonia solanacearum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potato spindle tuber viroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomato stolbur	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Virus tolerance	0	0.1	0.4 (0.2 severe)	0.8 (0.4 severe)	2 (1 severe)	10 (2 severe)	0	0	0.1 / 0 <sup>1</sup>	0.2 / 0.1 <sup>1</sup>	0.3 / 0.2 <sup>1</sup>	0.6 / 0.3 <sup>1</sup>	1 / 0.5 <sup>1</sup>	3 / 2 <sup>1</sup>
Other varieties & off types	0	0.01	0.25	0.25	0.5	0.5	0	0.1 / 0 <sup>1</sup>	0.1 / 0 <sup>1</sup>	0.1 / 0 <sup>1</sup>	0.2 / .05 <sup>1</sup>	0.2 / 0.1 <sup>1</sup>	0.4 / 0.2 <sup>1</sup>	1.0 / 0.5 <sup>1</sup>
<b>2. Lot tolerances</b>														
Earth & extraneous matter (%)	1	1	2	2	2	2	No soil tolerance specified	No soil tolerance specified	No soil tolerance specified	No soil tolerance specified	No soil tolerance specified	No soil tolerance specified	No soil tolerance specified	No soil tolerance specified
Dry & wet rot (not caused by Synchytrium e. Clavibacter m. Ralstonia s.) (%)	0	0.2	1	1	1	1	0 (N/A)	Wet rot 0.1/0.5 Dry rot 1.0/1.0 <sup>2</sup>	Wet rot 0.1/0.5 Dry rot 1.0/1.0 <sup>2</sup>	Wet rot 0.1/0.5 Dry rot 1.0/1.0 <sup>2</sup>	Wet rot 0.1/0.5 Dry rot 1.0/1.0 <sup>2</sup>	Wet rot 0.1/0.5 Dry rot 1.0/1.0 <sup>2</sup>	Wet rot 0.1/0.5 Dry rot 1.0/1.0 <sup>2</sup>	Wet rot 0.1/0.5 Dry rot 1.0/1.0 <sup>2</sup>
External defects	3	3	3	3	3	3		2/3 <sup>3</sup>	2/3 <sup>3</sup>	2/3 <sup>3</sup>	2/3 <sup>3</sup>	2/3 <sup>3</sup>	2/3 <sup>3</sup>	2/3 <sup>3</sup>
Shrivelled tubers	0	0.5	1	1	1	1	0 (N/A)	2%	2%	2%	2%	2%	2%	2%
Scab (common and netted)	0	5 (33.3)*	5 (33.3)*	5 (33.3)*	5 (33.3)*	5 (33.3)*	0 (N/A)	Scab & Rhizoctonia Combined: 10% light, 5% moderate <sup>4</sup>	Scab & Rhizoctonia Combined: 10% light, 5% moderate <sup>4</sup>	Scab & Rhizoctonia Combined: 10% light, 5% moderate <sup>4</sup>	Scab & Rhizoctonia Combined: 10% light, 5% moderate <sup>4</sup>	Scab & Rhizoctonia Combined: 10% light, 5% moderate <sup>4</sup>	Scab & Rhizoctonia Combined: 10% light, 5% moderate <sup>4</sup>	Scab & Rhizoctonia Combined: 10% light, 5% moderate <sup>4</sup>
Powdery scab	0	1	3	3	3	3	0 (N/A)	Scored with common	Scored with	Scored with	Scored with	Scored with	Scored with	Scored with

<sup>1</sup> For crop tolerances, the two options represent a tolerance for 1st field inspection and 2nd field inspection respectively (e.g., '0.1 / 0' = 0.1% on 1st field inspection and 0 % on 2nd field inspection)

<sup>2</sup> For lot tolerances, the two options represent a tolerance for point of shipping and destination respectively (e.g., '0.1 / 0.5' = 0.1% at point of shipping 0.5 % at destination)

<sup>3</sup> Tolerance specified for 'malformed and damaged' is 2 % at point of shipping and 3 % at destination. NB, separate tolerance exists for stem-end discolouration

<sup>4</sup> 'Light' scab or Rhizoctonia means 1 to 5 % of the tuber surface is covered; 'Moderate' scab or Rhizoctonia means 5 to 10 % of the tuber surface is affected

