



Bruising risk assessment advice sheet - 1

Variety

Varieties differ in their susceptibility to bruising. BPC Independent Variety Trials score varieties for their susceptibility to bruising on a 1 to 9 scale (1 = susceptible, 9 = resistant). The table to the right give some examples, for other varieties see the BPC seed variety database on www.potato.org.uk or the BPC/NIAB pocketbook. Local variation in ranking does occur, e.g. incidences of Cara being susceptible to bruising have been reported on silt soils and Maris Piper has higher bruising sensitivity than Marfona in BPC trials in Lothian. Where known, local variety information should be used.

It should be noted that variety is only one of many factors influencing bruising susceptibility and even varieties with a high score may bruise under the influence of other factors.

Varietal characteristics such as tuber size, shape and dry matter (DM%) may also influence a tuber's susceptibility to bruising (see advice sheet NO. 9). The intended market often limits the variety choice and specifies a larger tuber size that may be more prone to bruising.

Resistant



Susceptible

Cara	8
Fianna	7
Nadine	7
Sante	7
Saxon	7
Estima	6
Hermes	6
King Edward	6
Lady Rosetta	6
Maris Piper	6
Maris Peer	6
Nicola	6
Pentland Dell	6
Shepody	6
Charlotte	5
Desiree	5
Marfona	5
Russet Burbank	4

BPC National Bruising Survey

94% of respondents recognised variety as a major influence on crop bruising susceptibility.

ACTION

When the variety being grown is known to be susceptible to bruising aim to eliminate all other factors that can increase a tuber's susceptibility to bruising (see advice sheets 2 - 12). This also applies to markets that require large tubers as they are more prone to bruising.

For further information on BPC funded R&D into cultivar susceptibility to bruising see www.potato.org.uk, project title 'Identifying the factors that affect bruising damage susceptibility', ref. 807/180 or call BPC publications on 01865 782222.

Potatoes are more likely to bruise.....

.....where they have a rating of 5 or below on the BPC/NIAB scale of 1-9, where 1 = high potential to bruising. Higher DM% and larger sized tubers are more likely to bruise, as are longer shaped tubers.

Potatoes are less likely to bruise.....

.....where they have a rating of 6 or above on the BPC/NIAB scale of 1-9, where 9 = low potential to bruising. Lower DM% and smaller sized tubers are less likely to bruise.

