

Developing a research framework to support the Scottish Cherry Industry

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Background to interest in cherry: SSCR funded desk study



- Pressure to diversify from challenges in growing soft fruit crops eg. lack of actives, resistant high quality varieties, raspberry root rot
- Potential for soft fruit growers to utilise innovation and expertise: state-of-the-art polythene tunnels, irrigation regimes and frost protection regimes
- Develop cherry as a high value crop for the Scottish industry.





















Blueberry model: steps for cherry



- Identification cherry germplasm for Scotland.
- Identify barriers to profitability.
- Identify technology to overcome barriers.



S. McCallum blueberry breeding programme





















June Drop

- June Drop is an environmentally controlled phenotypic disorder that can lead to >50% fruit loss in a poor season.
- Climate change is increasingly influencing crop production leading to such phenotypic instability hampering investment.





Hutton





Technological developments: June Drop



Plant stress imaging

- Identify environmental factors which impact on phenotype prior to their effect on yield and quality being realised.
- Field imaging using range of cameras and sensors
- Algorithms will allow growers to predict environmental impact on phenotype, facilitating crop management to optimise yield and predict profit.



SSCR funded Desk study

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Way forward

Some preliminary work under RESAS novel crops

Funding

Cherry images Peter Thomson









