



Grower Summary

SF 096a

East Malling Strawberry
Breeding Club

Annual 2014

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The results and conclusions in this report may be based on an investigation conducted over one year. Therefore, care must be taken with the interpretation of the results.

Use of pesticides

Only officially approved pesticides may be used in the UK. Approvals are normally granted only in relation to individual products and for specified uses. It is an offence to use non-approved products or to use approved products in a manner that does not comply with the statutory conditions of use, except where the crop or situation is the subject of an off-label extension of use.

Before using all pesticides check the approval status and conditions of use.

Read the label before use: use pesticides safely.

Further information

If you would like a copy of the full report, please email the HDC office (hdc@hdc.ahdb.org.uk), quoting your HDC number, alternatively contact the HDC at the address below.

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HDC is a division of the Agriculture and Horticulture Development Board.

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Project Title: East Malling Strawberry Breeding Club

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Headline

Eight new selections, six June-bearers and two everbearers, were selected in the 2013 EMSBC trials to progress to growers' trials. Of the six June-bearers, one was a very-early selection, one was early and the remainder were mid-season types. All will be trialled on growers' sites in 2015/16.

Background

The new contract for the East Malling Strawberry Breeding Club (EMSBC) was signed in June 2013 to follow on from the first tranche of the EMSBC breeding programme which had started in 2008. HDC continues to contribute to the EMSBC via project SF 96a. The main objective of the EMSBC strawberry breeding programme is to develop improved strawberry varieties, both June- and everbearing with increased yield, larger fruit size, an extended season of production and greater resistance to fungal diseases. This report covers three trials (June-bearer main crop, 60-day and everbearer trials) of EMSBC material assessed in 2013 as part of the preliminary trials held at East Malling Research.

Results of variety trials

The results from each trial are shown in the following tables:

Table 1 (a). June-bearer selections. Maincrop yield and berry size

Selection	Class 1 yield (g/plant)	% Class 1	% large fruit (>35mm)	50% pick date
EM2290	851	92	76	4 Jul
EM2298	669	85	60	1 Jul
EM2299	666	85	74	24 Jun
EM2301	1218	85	83	4 Jul
EM2315	812	85	55	1 Jul
EM2320	885	87	58	4 Jul
<i>Elsanta</i> ¹	637	57	49	6 Jul

¹Mean of two plots

Table 1(b). June-bearer selections. Maincrop fruit quality

Selection	Appearance (1-9)	Skin firmness (1-9)	Flesh firmness (1-9)	Flavour (1-9)	Shelf life (1-9)	Mean Brix
EM2290	6.0	6.6	6.5	5.9	4.7	8.2
EM2298	5.8	5.5	5.6	5.9	4.0	9.9
EM2299	5.9	6.4	6.1	5.4	3.0	7.1
EM2301	6.0	6.3	6.3	5.0	6.0	8.2
EM2315	5.7	6.1	6.2	6.0	3.5	8.5
EM2320	5.9	6.4	6.3	5.6	4.0	8.5
<i>Elsanta</i> ¹	4.9	5.9	5.4	5.1	3.5	8.2

¹Mean of two plots

Full descriptions of the fruit quality scoring system can be found in Appendix I of the main report, but as a guide 1=poor, 9=excellent

Table 2. June-bearer selections. 60-day yield and berry size

Selection	Marketable yield ¹ (g/plant)	% marketable yield	Mean crown diameter (mm)	Marketable (g/plant) yield per mm crown diameter	50% pick date
EM1977	187	86	8.1	23	15 Jul
EM2131	126	75	9.3	14	15 Jul
EM2135	260	92	9.0	29	18 Jul
EM2156	164	80	8.6	19	18 Jul
EM2161	199	92	9.0	22	18 Jul
EM2170	156	82	9.2	17	15 Jul
<i>Elsanta</i> ³	225	75	11.0	21	15 Jul
<i>Sonata</i>	211	80	9.1	23	18 Jul
<i>Vibrant</i>	270	88	9.0	30	15 Jul

¹ >25 mm, ² mean of two plots

Full descriptions of the fruit quality scoring system can be found in Appendix I of the main report, but as a guide 1=poor, 9=excellent

Table 3(a). Everbearer selections. Yield and berry size

Selection	Class 1 yield (g/plant)	% Class 1	% large fruit (>35mm)	50% pick date
EMR612	1371	78	60	15 Aug
EMR639	1038	74	60	27 Aug
<i>Evie 2</i> ¹	1138	73	58	20 Aug
<i>Finesse</i> ¹	1249	75	44	19 Aug

¹Mean of two plots**Table 3(b).** Everbearer selections. Fruit quality

Selection	Appearance	Skin firmness (1-9)	Flesh firmness (1-9)	Flavour (1-9)	Shelf life (1-9)	Mean Brix
EMR612	5.6	6.2	6.1	5.1	3.4	7.8
EMR639	5.6	6.0	6.4	5.6	4.0	8.7
<i>Evie 2</i> ¹	5.6	5.6	5.9	5.2	2.9	6.8
<i>Finesse</i> ¹	5.4	5.8	6.1	5.3	3.2	7.1

¹Mean of two plots

Full descriptions of the fruit quality scoring system can be found in Appendix I of the main report, but as a guide 1=poor, 9=excellent