

**Project title:** Field Vegetables: An evaluation of autumn/winter cauliflower, spring cabbage cultivars and other winter brassica crops.

**Project number:** FV 202f

**Project leader:** Bill Herring      Duchy College

**Report:** Annual report      July 2012

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**Location of project:** Trevarnon Farm, Gwithian, Cornwall.

**Industry representative:** Ellis Luckhurst

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The results and conclusions in this report are based on an investigation conducted over a one-year period. The conditions under which the experiments were carried out and the results have been reported in detail and with accuracy. However, because of the biological nature of the work it must be borne in mind that different circumstances and conditions could produce different results. Therefore, care must be taken with interpretation of the results, especially if they are used as the basis for commercial product recommendations.

**AUTHENTICATION**

We declare that this work was done under our supervision according to the procedures described herein and that the report represents a true and accurate record of the results obtained.

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# GROWER SUMMARY

## Headline

Some of the newly introduced autumn and winter cauliflower cultivars can increase income by £691/Ha where Grade 1 product is 10% above standard cultivars based on 19760 plants/Hectare (8000/Acre). This is a real possibility with many producers now on a fixed price for each cauliflower produced.

## Background

Duchy College working in partnership with six National seed houses and local growers has carried out the evaluation of commercially available autumn, winter cauliflower and spring greens cultivars over the past 15 years. Initially introduced into the Confidential/Screening Trials and then within the commercially available trials each cultivar has been recorded and evaluated year on year. With the improvement in plant breeding and new cultivars being introduced these need to be assessed alongside current and established varieties in order to improve yields and quality of produce.

## Results

The following cultivars are of most interest to the industry. These have performed well during the 2011 -12 season where the weather has had a big influence especially during February 2012 when ground frosts were recorded as low as -7.4C. However results over several seasons will need to be considered when selecting cultivars for production. Full information on all varieties can be found in the 'Full Trial Report'.

Comments on curd protection, disease, uniformity, suitability for various markets, defects and ease of harvesting are found in the Full Trial report in the Appendices.

### Autumn cauliflower. Top performing cultivars

| Seed House | Cultivar  | % Class 1 | Trays/Hectare (Acre) | Heading period      |
|------------|-----------|-----------|----------------------|---------------------|
| Elsoms     | Skywalker | 79        | 2695 (1091)          | 08.10.11 - 15.10.11 |
| Clause     | Naruto    | 81        | 2571 (1041)          | 08.10.11 - 17.10.11 |
| Clause     | Meridian  | 78        | 2507 (1015)          | 06.10.11 - 16.10.11 |
| Clause     | Rafale    | 80        | 2697 (1092)          | 08.10.11 - 15.10.11 |
| Monsanto   | RX 5710   | 75        | 2447 (991)           | 08.10.11 - 13.10.11 |
| Monsanto   | Agenda    | 78        | 2539 (1028)          | 11.10.11 - 20.10.11 |
| Monsanto   | Appia     | 76        | 2420 (980)           | 17.10.11 - 27.10.11 |
| Monsanto   | Amiata    | 75        | 2445 (990)           | 20.10.11 - 29.10.11 |

**Winter cauliflower.** Top performing cultivars.

Yields will vary as there were two transplanting dates and three different spacings for each cultivar within the Trials. Please refer to the 'Full Trial Report' for details.

| Seed House | Cultivar   | % Class 1 | Trays/Hectare (Acre) | Heading period      |
|------------|------------|-----------|----------------------|---------------------|
| Clause     | Navalo     | 87        | 2410 (976)           | 13.10.11 - 20.10.11 |
| Monsanto   | RX 5965    | 90        | 2517 (1019)          | 13.10.11 - 24.10.11 |
| Monsanto   | Arica      | 78        | 2185 (885)           | 17.10.11 - 24.10.11 |
| Monsanto   | RX 5982    | 86        | 2332 (944)           | 24.10.11 - 31.10.11 |
| Clause     | Diwan      | 77        | 2079 (842)           | 31.10.11 - 10.11.11 |
| Nickerson  | Cendis     | 81        | 2200 (891)           | 08.11.11 - 27.11.11 |
| Monsanto   | Typical    | 77        | 1860 (753)           | 03.11.11 - 20.11.11 |
| Syngenta   | Loroen     | 78        | 1874 (759)           | 03.11.11 - 24.11.11 |
| Syngenta   | C 4013     | 79        | 2166 (877)           | 10.11.11 - 24.11.11 |
| Syngenta   | C 5016     | 80        | 1912 (774)           | 14.11.11 - 24.11.11 |
| Elsoms     | Maginot    | 78        | 1874 (759)           | 14.11.11 - 28.11.11 |
| Syngenta   | C 5020     | 88        | 2386 (966)           | 17.11.11 - 20.11.11 |
| Nickerson  | AC 9130    | 78        | 1867 (756)           | 17.11.11 - 01.12.11 |
| Clause     | Triomphant | 88        | 2067 (837)           | 20.11.11 - 01.12.11 |
| Tozer      | 1043 CMS   | 73        | 1741 (705)           | 24.11.11 - 19.12.11 |
| Monsanto   | Tintagel   | 88        | 2090 (846)           | 29.12.11 - 23.01.12 |
| Tozer      | 1018       | 78        | 1850 (749)           | 02.01.12 - 26.01.12 |
| Nickerson  | AB 1004    | 88        | 2089 (846)           | 03.01.12 - 19.01.12 |
| Monsanto   | RX 5697    | 84        | 1993 (807)           | 12.01.12 - 06.02.12 |
| Nickerson  | Dionis     | 92        | 2183 (884)           | 16.01.12 - 06.02.12 |
| Monsanto   | RX 5738    | 80        | 2169 (878)           | 19.01.12 - 11.02.12 |
| Nickerson  | AC 7111    | 80        | 1899 (769)           | 23.01.12 - 06.02.12 |
| Syngenta   | C 5022     | 84        | 1993 (807)           | 23.01.12 - 23.02.12 |
| Clause     | Brick      | 86        | 2102 (851)           | 26.01.12 - 17.02.12 |
| Tozer      | 2067       | 76        | 2062 (835)           | 30.01.12 - 27.02.12 |
| Monsanto   | RX 5702    | 86        | 2331 (944)           | 06.02.12 - 27.03.12 |
| Clause     | Redoutable | 90        | 2136 (865)           | 17.02.12 - 27.02.12 |
| Clause     | Fleet      | 80        | 2171 (879)           | 20.02.12 - 27.02.12 |
| Monsanto   | Trewint    | 82        | 2213 (896)           | 20.02.12 - 05.03.12 |
| Syngenta   | SGC 5008   | 85        | 2316 (938)           | 23.02.12 - 12.03.12 |
| Clause     | Matelot    | 92        | 2532 (1025)          | 01.03.12 - 08.03.12 |
| Syngenta   | SGC 5007   | 92        | 2470 (1000)          | 01.03.12 - 12.03.12 |
| Elsoms     | Isadora    | 87        | 2351 (952)           | 01.03.12 - 12.03.12 |
| Clause     | Mascaret   | 86        | 2331 (944)           | 01.03.12 - 15.03.12 |
| Elsoms     | Capulet    | 92        | 2374 (961)           | 05.03.12 - 12.03.12 |
| Tozer      | 2038       | 93        | 2514 (1018)          | 05.03.12 - 16.03.12 |
| Elsoms     | Mystique   | 95        | 2623 (1062)          | 05.03.12 - 12.03.12 |
| Elsoms     | Madiot     | 90        | 2440 (988)           | 08.03.12 - 16.03.12 |
| Syngenta   | Charif     | 93        | 2529 (1024)          | 12.03.12 - 29.03.12 |
| Elsoms     | Tempest    | 92        | 2485 (1006)          | 16.03.12 - 26.03.12 |
| Syngenta   | SGC 4717   | 93        | 2571 (1041)          | 29.03.12 - 06.04.12 |
| Syngenta   | SG 4732    | 96        | 2603 (1054)          | 30.04.12 - 07.05.12 |

## Spring green cultivars

| Seed House Cultivar    | Comments   | Transplanting Date | Harvest dates | Pack out yield Trays/Acre (10 bags x 550grams) |
|------------------------|--|--------------------|---------------|--|
| Monsanto RX 7014       | Slightly crinkled leaf type. Paler inner leaf. Very uniform. Heavy cabbage greens..              | 02.09.11           | 01.12.11      | 618  |
| Tozer Wintergreen      | Crinkled leaf type. Variable size greens. Dark green leaf. Uniform. Slightly crinkled leaf type. | 02.09.11           | 01.12.11      | 510  |
| Seminis Winter Special | Some variation in size.  | 02.09.11           | 01.12.11      | 525  |
| Monsanto RX 7027       | Upright frame. Paler inner leaf. Tall. Uniform.  | 02.09.11           | 01.12.11      | 447  |
| Monsanto Summer green  | Softer leaf type. Compact. Uniform. Rosette type. Paler inner leaf.                              | 02.09.11           | 01.12.11      | 420  |
| Monsanto Evergreen     | Similar to RX 7027. Leggy frame. Some variation in plant size.                                   | 02.09.11           | 01.12.11      | 470  |

The trials were undertaken at Trevarnon Farm, Gwithian, Cornwall. The soil type was a sandy clay loam. The site is south facing and is part of a farm rotation based around Brassicas, cereals and grass break crops. The farm has traditionally grown Brassica crops supplying both the multiple and local markets. The trial itself is treated as a commercial crop undergoing similar field operations as the commercially grown crops. The cultivars are harvested twice a week on a similar basis as commercial crops on the farm.

### Main conclusions

All of the cultivars that have performed well during 2010-11 are commercially available to growers, each with their own characteristics, traits and qualities. The large number of cultivars available enables growers to select suitable cultivars for their production systems, which vary from farm to farm and area to area. The cultivars available ensure continuous supply complimenting each other throughout the production period. However there is a continuous need to improve output and quality especially in the production period between

late December and early February where yields can be lower. There have been a number of new introductions over this period that has performed well alongside established cultivars.

Trials have also been undertaken where a number of confidential cultivars from a range of seed companies have been assessed with some new named cultivars being introduced into the commercially available cultivar trials for 2011 -12 and a number to follow in subsequent years.

The inclement weather patterns of both the 2009-10 and 2010-11 seasons has enabled growers to observe those cultivars that have performed consistently despite the inclement growing conditions.

## SCIENCE SECTION

### Introduction

Working in partnership with a number of National seed-houses the Trials have enabled the evaluation of commercially available Autumn, Winter Cauliflower and Spring Green cultivars, so that improved cultivars can be assessed alongside current and established cultivars in order to improve yields, quality of produce and continuity of supply.

The Autumn Cauliflower Trial compared established cultivars alongside new introductions for the heading period of early October to late November.

The main Winter Cauliflower Trial compares cultivars transplanted at two different spacings in early and late July and provides detailed information on the advantages/disadvantages of staggered transplanting dates which is commercially practiced in order to maximize the potential of some cultivars. This Trial covers cultivars heading from late November through to May.

The Spring Greens Trial compares commercially grown hybrid cultivars transplanted alongside the traditional Wintergreen cultivar. These are then assessed for suitability as greens being harvested from late January to March depending on the cultivar and season. All cultivars transplanted as modules in early September 2011.

The Cauliflower Trials provide detailed information on each cultivar including:-

Harvesting period: 10%, 50% and 90% harvest dates.

%Grade 1: Grade 2 and unmarketable produce.

Marketable yields.

Comments on any defects, including disease tolerance especially for *Xanthomonas* and mildew, pest presence and the suitability for the various market outlets.

Evaluation on the ease of harvesting, packing, uniformity, depth and quality of curds.

Comments on curd protection, leaf quality and crop growth.

### ***Varieties and numbered selections included***

The Autumn Cauliflower Trial consisted of 15 cultivars replicated twice, transplanted at 25315 plants/Ha (10249/acre) on the 13<sup>th</sup> July 2011.

The Winter Cauliflower Trial consisted of 63 cultivars transplanted at 21192/Ha (8785/acre), or 17527/Ha (7096/acre) depending on expected Heading periods. Transplanted on the 10 and 23<sup>rd</sup> July 2011.

The Spring Greens Trial compared 5 hybrid cultivars with the traditional Wintergreen cultivar. All from different seed houses.

### **Autumn Cauliflower Varieties 2011-12**

40'6" plot 3' path 4 rows / plot 2 Reps

| <b>Plot</b> | <b>Variety</b> | <b>Seed house</b> | <b>Heading period</b>         |
|-------------|----------------|-------------------|-------------------------------|
| 33          | Skywalker      | Elsoms            | Mid/Late October              |
| 34          | BJ2890         | Elsoms            | Early November                |
| 35          | Salou          | Elsoms            | Late October / Early November |
| 36          | Naruto         | Clause/Tezier     | Mid/Late October              |
| 37          | Meridian       | Clause/Tezier     | Mid/Late October              |
| 38          | Rafale         | Clause/Tezier     | Mid/Late October              |
| 39          | Regata         | Clause/Tezier     | Late October                  |
| 40          | Optimist       | Clause/Tezier     | Late October                  |
| 41          | AC 10234       | Nickerson         | Mid November                  |
| 42          | RX5710         | Monsanto          | October                       |
| 43          | SGC 4004       | Sygenta           | Mid November                  |
| 44          | Aquata         | Monsanto          | Oct/Early November            |
| 45          | Agenda         | Monsanto          | Oct/Early November            |
| 46          | Appia          | Monsanto          | Oct/Early November            |
| 47          | Amiata         | Monsanto          | November                      |

| <b>Plot</b> | <b>Variety</b> | <b>Seed house</b> | <b>Heading period</b>         |
|-------------|----------------|-------------------|-------------------------------|
| 48          | Skywalker      | Elsoms            | Mid/Late October              |
| 49          | BJ2890         | Elsoms            | Early November                |
| 50          | Salou          | Elsoms            | Late October / Early November |
| 51          | Naruto         | Clause/Tezier     | Mid/Late October              |
| 52          | Meridian       | Clause/Tezier     | Mid/Late October              |
| 53          | Rafale         | Clause/Tezier     | Mid/Late October              |
| 54          | Regata         | Clause/Tezier     | Late October                  |
| 55          | Optimist       | Clause/Tezier     | Late October                  |
| 56          | AC 10234       | Nickerson         | Mid November                  |
| 57          | RX5710         | Monsanto          | October                       |
| 58          | SGC 4004       | Sygenta           | Mid November                  |
| 59          | Aquata         | Monsanto          | Oct/Early November            |
| 60          | Agenda         | Monsanto          | Oct/Early November            |
| 61          | Appia          | Monsanto          | Oct/Early November            |
| 62          | Amiata         | Monsanto          | November                      |

### **Winter Cauliflower Variety Trial**

Time of trail planting 20-11-12: Plots 63-125 first planting 14/7/11      Plots 161-223 second planting 22/7/11

| <b>Plot No</b> | <b>Plot No</b> | <b>Variety</b> | <b>Seed House</b> | <b>Heading Period</b> |
|----------------|----------------|----------------|-------------------|-----------------------|
| 63             | 161            | NAVALO         | CLAUSE            | Mid November          |
| 64             | 162            | ARICA          | MONSANTO          | Mid November          |
| 65             | 163            | DIWAN          | CLAUSE            | Late November         |
| 66             | 164            | RX 5965        | MONSANTO          | Late December         |
| 67             | 165            | AC 10221       | NICKERSON         | Early December        |
| 68             | 166            | C 4013         | SYNGENTA          | Early December        |
| 69             | 167            | AF 4089        | NICKERSON         | Early December        |
| 70             | 168            | GALIOTE        | CLAUSE            | Early December        |
| 71             | 169            | AC 10031       | NICKERSON         | Early December        |
| 72             | 170            | CENDIS         | NICKERSON         | Early December        |
| 73             | 171            | RX 5982        | MONSANTO          | Mid December          |
| 74             | 172            | BELOT          | ELSOMS            | Mid December          |
| 75             | 173            | C 5020         | SYNGENTA          | Mid December          |
| 76             | 174            | TRIOMPHANT     | CLAUSE            | Mid/Late Dec          |
| 77             | 175            | FIORINO        | SYNGENTA          | Mid/Late Dec          |
| 78             | 176            | 1001           | TOZER             | Mid/Late Dec          |
| 79             | 177            | LORIEN         | SYNGENTA          | Late December         |
| 80             | 178            | TYPICAL        | MONSANTO          | Late December         |
| 81             | 179            | AC 9130        | NICKERSON         | Late December         |
| 82             | 180            | MAGINOT        | ELSOMS            | Late December         |
| 83             | 181            | JUBARTE        | CLAUSE            | Early/Mid Jan         |
| 84             | 182            | 1043CMS        | TOZER             | Mid January           |
| 85             | 183            | C 5016         | SYNGENTA          | Early/Mid Jan         |
| 86             | 184            | BJ 2784        | ELSOMS            | Mid January           |
| 87             | 185            | 1018           | TOZER             | Mid January           |
| 88             | 186            | TERMINELLO     | MONSANTO          | Mid January           |

| <b>Plot No</b> | <b>Plot No</b> | <b>Variety</b> | <b>Seed House</b> | <b>Heading Period</b> |
|----------------|----------------|----------------|-------------------|-----------------------|
| 89             | 187            | C 5018         | SYNGENTA          | Mid/Late January      |
| 90             | 188            | RX 5697        | MONSANTO          | Mid January           |
| 91             | 189            | C 5027         | SYNGENTA          | Mid/Late January      |
| 92             | 190            | AB 1004        | NICKERSON         | Late January          |
| 93             | 191            | BRICK          | CLAUSE            | Late January          |
| 94             | 192            | TINTAGEL       | MONSANTO          | Late Jan/ Feb         |
| 95             | 193            | AC 7111        | NICKERSON         | Early February        |
| 96             | 194            | REDOUTABLE     | CLAUSE            | Early February        |
| 97             | 195            | DIONIS         | NICKERSON         | Early February        |
| 98             | 196            | C 5022         | SYNGENTA          | Early/Mid Feb         |
| 99             | 197            | MATELOT        | CLAUSE            | Mid February          |
| 100            | 198            | TREKNOW        | MONSANTO          | Mid February          |
| 101            | 199            | AC 7140        | NICKERSON         | Mid February          |
| 102            | 200            | FLEET          | CLAUSE            | Mid February          |
| 103            | 201            | RX 5822        | MONSANTO          | Mid February          |
| 104            | 202            | MASCARET       | CLAUSE            | Mid/Late Feb          |
| 105            | 203            | SGC 5007       | SYNGENTA          | Late February         |
| 106            | 204            | CAPULET        | ELSOMS            | End February          |
| 107            | 205            | SGC 5008       | SYNGENTA          | Early March           |
| 108            | 206            | 2038           | TOZER             | Early March           |
| 109            | 207            | MADIOT         | ELSOMS            | Early March           |
| 110            | 208            | RX 5829        | MONSANTO          | Mid March             |
| 111            | 209            | AE 9311        | NICKERSON         | Mid March             |
| 112            | 210            | RX 5847        | MONSANTO          | Mid March             |
| 113            | 211            | MYSTIQUE       | ELSOMS            | Mid March             |
| 114            | 212            | CHARIF         | SYNGENTA          | Late March            |
| 115            | 213            | 2067           | TOZER             | Late March            |
| 116            | 214            | ISADORA        | ELSOMS            | Late March            |
| 117            | 215            | SG 4732        | SYNGENTA          | Late March            |

| <b>Plot No</b> | <b>Plot No</b> | <b>Variety</b> | <b>Seed House</b> | <b>Heading Period</b> |
|----------------|----------------|----------------|-------------------|-----------------------|
| 118            | 216            | TEMPEST        | ELSOMS            | Late March            |
| 119            | 217            | INVICTA        | ELSOMS            | Late March            |
| 120            | 218            | 2072           | TOZER             | Early April           |
| 121            | 219            | 2063           | TOZER             | March                 |
| 122            | 220            | RX5702         | MONSANTO          | March                 |
| 123            | 221            | TREWINT        | MONSANTO          | March                 |
| 124            | 222            | RX5738         | MONSANTO          | March                 |
| 125            | 223            | SGC4717        | SYNGENTA          | Late March            |

### ***Spring cabbage trials 2011 - 2012***

4 rows / variety 25cm spacing in row. Transplanted 02-09-12 into good soil conditions. 300 of each cultivar, using module grown transplants.

| <b>Seed house</b> | <b>Cultivar</b> |
|-------------------|-----------------|
| MONSANTO          | RX 7014         |
| TOZER             | WINTERGREEN     |
| SEMINIS           | WINTER SPECIAL  |
| MONSANTO          | SUMMER GREEN    |
| MONSANTO          | RX 7027         |
| MONSANTO          | EVERGREEN       |

The Trials have been undertaken at Trevarnon Farm, Gwithian, Cornwall by kind permission of Mr. J. Hosking and Son.

## Cultural information 2011 - 12

### Autumn and Winter Cauliflower Trials

#### Fertiliser:

|          |               |   |
|----------|---------------|---|
| 07.07.11 | Base Dressing | Yara 13.13.21 @ 5.5 cwt/acre (679Kg/Ha)       |
| 23.09.11 | Top Dressing  | Yara Calcium Nitrate @ 3 cwt/acre (370Kg/Ha)  |
| 08.11.11 | Top Dressing  | Yara Calcium Nitrate @ 2.2cwt/acre 272Kg/Ha)  |
| 22.12.11 | Top Dressing  | Yara Calcium Nitrate @ 1.5cwt/acre (188Kg/Ha) |

Pre Planting 09.07.11 Cyren @ 2litres/Ha in 300 Ltrs water/Ha (Leatherjacket control)  
Wire netting prior to transplanting as rabbit control

Post planting 23.07.11 Gammit @ 0.2Ltrs/Ha in 400 Ltrs water/Ha

14.09.11 Plover @ 0.3 Ltrs/Ha (Fungicide)  
Aphox @ 420 grams/Ha (Aphid control)  
Permasect C @ 250 ml/Ha (Caterpillar control)  
Activator 90 @ 0.3 Ltrs/Ha in 300Ltrs water/Ha

Huron @ 4Kg/Ha (Slug control)

07.11.11 Plover @ 0.3 Ltrs/Ha  
Activator 90 @ 0.3 Ltrs/Ha  
Magflo 300 @ 3 Ltrs/Ha in 300Ltrs water/Ha

|                     |   |               |
|---------------------|---|---------------|
| Transplanting dates | Autumn Cauliflower Variety trial          | 13-07-11      |
|                     | Winter Cauliflower Time of planting Trial | 10 & 23-07-11 |
|                     | Late Time of Planting Trial               | 30-07-11      |
|                     | Confidential Plots                        | 23-07-11      |
|                     | Late Variety Trial                        | 23-07-11      |

#### Spring Greens

|            |          |               |   |
|------------|----------|---------------|---|
| Fertiliser | 07.07.11 | Base Dressing | Yara 13.13.21 @ 5.5 cwt/acre (679Kg/Ha)     |
|            | 23.09.11 | Top Dressing  | Yara Calcium Nitrate @3 cwt/acre (370Kg/Ha) |
|            | 03.10.11 | Top Dressing  | Yara Calcium Nitrate @2 cwt/acre (247Kg/Ha) |

Pre Planting 09.07.11 Cyren @ 2litres/Ha in 300 Ltrs water/Ha (Leatherjacket control)

23.08.11 Sultan @ 1.5Ltrs/Ha in 400 Ltr water/Ha

Transplanting 02.09.11 into excellent conditions.

05.11.11 Plover @ 0.3 Ltrs/Ha

Activator 90 @ 0.3 Ltrs/Ha

Magflo 300 @ 3 Ltrs/Ha in 300Ltrs water/Ha

### ***Trial design***

Each plot consisting of 4 rows with the outer rows being guards. 50 plants of each cultivar recorded with harvesting occurring every Monday and Thursday throughout the harvesting period of the Trials. (October–May 11-12).



## ***Trial records and data collected***

### *Predominant weather conditions July 2011 – May 2012*

Excellent transplanting conditions were experienced in July 2011 with day temperatures above average. There being sufficient moisture in the ground that the crop established quickly with very few losses.

Excellent growing conditions through the Autumn, resulted in some Autumn Cauliflower cultivars heading up to 7 days earlier than normal with quality being excellent.

Higher than normal temperatures in October and November resulted in some white bracting in the early Winter cauliflower cultivars, however no pinking of curds was experienced despite the high temperatures.

Mixed weather in November and December saw the cultivars ahead of harvesting schedule, however a severe cold period at the end of January and into early February with ground frosts of -7.4C on the 2/3<sup>rd</sup> February and -6.2C a week later on the 8/9<sup>th</sup> February slowed production with damage caused to any exposed curds. Production over this period was reduced by 80% with shortages of product for a three week period.

Mild weather from late February onwards ensured high quality and yields through to the final harvest in early May with all cultivars performing well despite the earlier cold spell.

For each Autumn and Winter Cauliflower cultivar the following record sheet is completed at each harvest and on completion of harvesting summaries are made of all data collected supported by visual observations as appropriate. These to be found in the Full Trial report in the Appendices.



## Discussion

The top performing cultivars highlighted within the results section identifies cultivars that have performed above the average yield of 70 - 75% Grade 1. Each 1% above this average yield increases gross income by £59/Ha based on a price of 30p per cauliflower.

## Conclusions

Within the Autumn and Winter Cauliflower cultivars, a number of numbered cultivars which have been previously been seen in the confidential trials performed well. Many of these will be named for the 2012-13 season with commercial seed available to growers.

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|           |          |                         |
|-----------|----------|-------------------------|
| Monsanto  | RX 5710  | Early October           |
| Monsanto  | RX 5965  | Mid October             |
| Monsanto  | RX 5982  | Late October            |
| Syngenta  | C 4013   | Mid/Late November       |
| Syngenta  | C 5016   | Mid/Late November       |
| Syngenta  | C 5020   | Mid/Late November       |
| Nickerson | AC 9130  | Late Nov/Early December |
| Tozer     | 1043     | Late Nov/Early December |
| Nickerson | AB 1004  | January                 |
| Monsanto  | RX 5697  | January/February        |
| Monsanto  | RX 5738  | January/February        |
| Nickerson | AC 7111  | January/February        |
| Syngenta  | C 5022   | February                |
| Monsanto  | RX 5702  | February/March          |
| Syngenta  | SGC 5008 | February/March          |
| Syngenta  | SGC 5007 | March                   |
| Syngenta  | SGC 4717 | March/April             |
| Syngenta  | SGC 4732 | April/May               |

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It is to be noted that each cultivar performs differently from season to season however data is available over the past 15 seasons which provides a basis upon which growers can make an informed decision on which cultivars to grow to provide a continuous supply.

## Technology transfer

The Trials are harvested twice a week and results are updated weekly on the following website <http://www.cornwall.ac.uk/research/herring> Open days were held in December, January and March where up to date information was made available to growers and representatives from the industry. A growers evening with guest speakers from all the seed houses represented in the Trials was held following the Open day in January, this was well supported by the industry with growers from all over the country present.

## **Appendices**

The following appendices show the summaries of all cultivars in both the Autumn and Winter Cauliflower Trials for 2011 - 12, with additional comments regarding each cultivar trialed.

## Autumn Cauliflower Variety Trial

2011 - 12

Plots transplanted 13th July

10249 plants/acre

| Seed house   | PLOT | CUTTING PERIOD |              |              | DAYS      | Class     | Class     | Unmkt     | Facepack | Class 2     |            |            |          |
|--|------|----------------|--------------|--------------|-----------|-----------|-----------|-----------|----------|-------------|------------|------------|----------|
| VARIETY  |      |                |              |              |           | 1         | 2         |           | Class 1  |             |            |            |          |
|  |      |                |              |              |           |           |           |           |          | Crates/Acre |            |            |          |
|  |      | 10%            | 50%          | 90%          |           | %         | %         | %         |          | 8           | 6          | 16         | 12       |
| <b>Elsoms</b>  | 33   | 6.10           | 10.10        | 17.10        | 11        | 81        | 9         | 10        |          | 949         | 126        | 59         | 0        |
| <b>Skywalker</b>   | 48   | 10.10          | 10.10        | 13.10        | 3         | 78        | 9         | 13        |          | 664         | 446        | 59         | 0        |
| <b>Average</b>   |      | <b>8.10</b>    | <b>10.10</b> | <b>15.10</b> | <b>7</b>  | <b>79</b> | <b>9</b>  | <b>12</b> |          | <b>807</b>  | <b>284</b> | <b>59</b>  | <b>0</b> |
| Smooth white curds. Uniform. Very good Facepack material. Clean leaf. Slightly crinkled leaf. Very few defects. Looks good in tray.        |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Elsoms</b>  | 34   | 20.10          | 27.10        | 31.10        | 11        | 69        | 11        | 20        |          | 854         | 32         | 190        | 0        |
| <b>BJ2890</b>  | 49   | 24.10          | 27.10        | 31.10        | 7         | 78        | 9         | 13        |          | 1002        | 0          | 58         | 0        |
| <b>Average</b>   |      | <b>22.10</b>   | <b>27.10</b> | <b>31.1</b>  | <b>9</b>  | <b>74</b> | <b>10</b> | <b>16</b> |          | <b>928</b>  | <b>16</b>  | <b>124</b> | <b>0</b> |
| Very leafy. Large frames. Paler inner leaves. Good Facepack material. A few loose curds.   |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Elsoms</b>  | 35   | 13.10          | 17.10        | 20.10        | 7         | 65        | 17        | 18        |          | 807         | 32         | 107        | 0        |
| <b>Salou</b>   | 50   | 10.10          | 13.10        | 17.10        | 7         | 74        | 13        | 13        |          | 901         | 63         | 83         | 0        |
| <b>Average</b>   |      | <b>11.10</b>   | <b>15.10</b> | <b>18.10</b> | <b>7</b>  | <b>70</b> | <b>15</b> | <b>15</b> |          | <b>854</b>  | <b>47</b>  | <b>95</b>  | <b>0</b> |
| Blue/gren leaf. Upright frame. Twisted leaf over curds. Good Facepack material. Some small plants/curds. A few loose curds.                |      |                |              |              |           |           |           |           |          |             |            |            |          |
| Needs cutting evry 2 or 3 days or will turn off white.   |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Clause</b>  | 36   | 10.10          | 13.10        | 17.1         | 7         | 74        | 15        | 11        |          | 902         | 63         | 95         | 0        |
| <b>Tezier</b>  | 51   | 6.10           | 13.10        | 17.10        | 11        | 87        | 2         | 11        |          | 1115        | 0          | 12         | 0        |
| <b>Naruto</b>  |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Average</b>   |      | <b>8.10</b>    | <b>13.10</b> | <b>17.10</b> | <b>9</b>  | <b>81</b> | <b>8</b>  | <b>11</b> |          | <b>1009</b> | <b>32</b>  | <b>54</b>  | <b>0</b> |
| Uniform. Slightly crinkled leaf. Slightly wide base to curds. Twisted leaf over curds. Good Facepack material. Few defects. Upright frame. |      |                |              |              |           |           |           |           |          |             |            |            |          |
| Needs cutting evry 2 or 3 days or will turn off white.   |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Clause</b>  | 37   | 6.10           | 6.10         | 20.10        | 14        | 74        | 11        | 15        |          | 949         | 0          | 71         | 0        |
| <b>Tezier</b>  | 52   | 6.10           | 10.10        | 13.10        | 7         | 82        | 9         | 11        |          | 939         | 142        | 43         | 0        |
| <b>Meridian</b>  |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Average</b>   |      | <b>6.10</b>    | <b>8.10</b>  | <b>16.10</b> | <b>11</b> | <b>78</b> | <b>9</b>  | <b>13</b> |          | <b>944</b>  | <b>71</b>  | <b>57</b>  | <b>0</b> |
| Slightly large frame. Wide base to curds. Strong midrib to leaves. Twisted leaf over curds. Good Facepack material.                        |      |                |              |              |           |           |           |           |          |             |            |            |          |

## Autumn Cauliflower Variety Trial

2011 - 12

Plots transplanted 13th July

10249 plants/acre

| Seed house  | PLOT | CUTTING PERIOD |              |              | DAYS      | Class     | Class     | Unmkt     | Facepack | Class 2     |            |            |          |
|---|------|----------------|--------------|--------------|-----------|-----------|-----------|-----------|----------|-------------|------------|------------|----------|
| VARIETY   |      |                |              |              |           | 1         | 2         |           | Class 1  |             |            |            |          |
|   |      |                |              |              |           |           |           |           |          | Crates/Acre |            |            |          |
|   |      | 10%            | 50%          | 90%          |           | %         | %         | %         |          | 8           | 6          | 16         | 12       |
| <b>Clause</b>   | 38   | 6.10           | 10.10        | 17.10        | 11        | 81        | 9         | 10        |          | 949         | 126        | 59         | 0        |
| <b>Tezier</b>   | 53   | 10.10          | 10.10        | 13.10        | 3         | 78        | 9         | 13        |          | 664         | 443        | 59         | 0        |
| <b>Rafale</b>   |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Average</b>  |      | <b>8.10</b>    | <b>10.10</b> | <b>15.10</b> | <b>7</b>  | <b>80</b> | <b>9</b>  | <b>11</b> |          | <b>807</b>  | <b>285</b> | <b>59</b>  | <b>0</b> |
| Small frame. Crinkled leaf. Lighter inner leaf. Low to the ground. Solid curds. Good Facepack material.   |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Clause</b>   | 39   | 10.10          | 13.10        | 17.10        | 7         | 57        | 17        | 26        |          | 688         | 63         | 107        | 0        |
| <b>Tezier</b>   | 54   | 6.10           | 13.10        | 17.10        | 11        | 63        | 9         | 28        |          | 783         | 32         | 59         | 0        |
| <b>Regata</b>   |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Average</b>  |      | <b>8.10</b>    | <b>13.10</b> | <b>17.10</b> | <b>9</b>  | <b>60</b> | <b>13</b> | <b>27</b> |          | <b>734</b>  | <b>48</b>  | <b>83</b>  | <b>0</b> |
| Upright frame. Large leaves. Slightly crinkled leaf. Smooth curds. Slightly wide base to curds. Good Facepack material. 13% ricey. 15% small curds. |      |                |              |              |           |           |           |           |          |             |            |            |          |
| Some off white curds.   |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Clause</b>   | 40   | 13.10          | 17.10        | 27.10        | 14        | 72        | 11        | 17        |          | 925         | 0          | 71         | 0        |
| <b>Tezier</b>   | 55   | 13.10          | 17.10        | 20.10        | 7         | 65        | 22        | 13        |          | 735         | 126        | 130        | 16       |
| <b>Optimist</b>   |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Average</b>  |      | <b>13.10</b>   | <b>17.10</b> | <b>23.10</b> | <b>11</b> | <b>69</b> | <b>16</b> | <b>15</b> |          | <b>830</b>  | <b>63</b>  | <b>101</b> | <b>8</b> |
| Open frame. Large leaves. Slightly wide base to curds. Slightly knobby curds. Some off white curds. Needs cutting every 2 days. Good Facepack.      |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Nickerson</b>  | 41   | 13.10          | 27.10        | 7.11         | 25        | 52        | 24        | 24        |          | 641         | 32         | 154        | 0        |
| <b>AC 10234</b>   | 56   | 13.10          | 27.10        | 3.11         | 21        | 44        | 28        | 28        |          | 569         | 0          | 178        | 0        |
| <b>Average</b>  |      | <b>13.10</b>   | <b>27.10</b> | <b>5.11</b>  | <b>23</b> | <b>48</b> | <b>26</b> | <b>26</b> |          | <b>605</b>  | <b>16</b>  | <b>166</b> | <b>0</b> |
| Narrow leaf type. Open frame. Good Facepack material. Spreading habit. Some loose off white curds.  |      |                |              |              |           |           |           |           |          |             |            |            |          |
| <b>Monsanto</b>   | 42   | 6.10           | 10.10        | 13.10        | 7         | 77        | 10        | 13        |          | 854         | 171        | 64         | 0        |
| <b>RX 5710</b>  | 57   | 10.10          | 10.10        | 13.10        | 3         | 72        | 4         | 24        |          | 830         | 127        | 24         | 0        |
| <b>Average</b>  |      | <b>8.10</b>    | <b>10.10</b> | <b>13.10</b> | <b>5</b>  | <b>75</b> | <b>7</b>  | <b>18</b> |          | <b>842</b>  | <b>149</b> | <b>44</b>  | <b>0</b> |
| Blue/green leaf. Slightly crinkled leaf. Good wrapper leaves. Smooth curds. Very good Facepack material. Uniform. Medium depth. 12% small curds.    |      |                |              |              |           |           |           |           |          |             |            |            |          |

## Autumn Cauliflower Variety Trial

**2011- 12**

Plots transplanted 13th July

10249 plants/acre

| Seed house   | PLOT | CUTTING PERIOD |              |              | DAYS      | 10249 plants/acre |           |           | Facepack | Class 2     |            |            |          |
|--|------|----------------|--------------|--------------|-----------|-------------------|-----------|-----------|----------|-------------|------------|------------|----------|
|  |      |                |              |              |           | Class 1           | Class 2   | Unmkt     |          |             |            |            |          |
| VARIETY  |      |                |              |              |           | 1                 | 2         |           | Class 1  | Crates/Acre |            |            |          |
|  |      | 10%            | 50%          | 90%          |           | %                 | %         | %         |          | 8           | 6          | 16         | 12       |
| <b>Syngenta</b>  | 43   | 17.10          | 27.10        | 31.10        | 14        | 55                | 18        | 27        |          | 705         | 0          | 112        | 0        |
| <b>SG 4004</b>   | 53   | 24.10          | 31.10        | 3.11         | 10        | 63                | 23        | 14        |          | 805         | 0          | 146        | 0        |
| <b>Average</b>   |      | <b>20.10</b>   | <b>29.10</b> | <b>1.11</b>  | <b>12</b> | <b>59</b>         | <b>21</b> | <b>20</b> |          | <b>755</b>  | <b>0</b>   | <b>129</b> | <b>0</b> |
| Small squat frame. Uniform. Bluey/green leaf. Slightly crinkled leaf. Smooth curds. Solid curds. Good Facepack material. 15% small plants/curds. |      |                |              |              |           |                   |           |           |          |             |            |            |          |
| <b>Monsanto</b>  | 44   | 17.10          | 17.10        | 24.10        | 7         | 67                | 17        | 16        |          | 854         | 0          | 107        | 0        |
| <b>Aquata</b>  | 59   | 17.10          | 17.10        | 24.10        | 7         | 60                | 11        | 29        |          | 820         | 0          | 77         | 0        |
| <b>Average</b>   |      | <b>17.10</b>   | <b>17.10</b> | <b>24.1</b>  | <b>7</b>  | <b>64</b>         | <b>14</b> | <b>22</b> |          | <b>837</b>  | <b>0</b>   | <b>92</b>  | <b>0</b> |
| Smooth curds. Good weight. Good curd cover. Good Facepack material. Uniform. Needs cutting eby 2 days or will turn off white. Some small plants. |      |                |              |              |           |                   |           |           |          |             |            |            |          |
| <b>Monsanto</b>  | 45   | 13.10          | 17.10        | 20.10        | 7         | 80                | 7         | 13        |          | 925         | 126        | 47         | 0        |
| <b>Agenda</b>  | 60   | 10.10          | 13.10        | 20.10        | 10        | 76                | 7         | 17        |          | 878         | 126        | 47         | 0        |
| <b>Average</b>   |      | <b>11.10</b>   | <b>15.10</b> | <b>20.10</b> | <b>9</b>  | <b>78</b>         | <b>7</b>  | <b>15</b> |          | <b>902</b>  | <b>126</b> | <b>47</b>  | <b>0</b> |
| uniform. Slightly crinkled leaf. Medium height. Lighter inner leaf. Smooth curds. Good Facepack material. Looks good in tray.                    |      |                |              |              |           |                   |           |           |          |             |            |            |          |
| <b>Monsanto</b>  | 46   | 17.10          | 20.10        | 27.1         | 10        | 74                | 8         | 18        |          | 949         | 0          | 47         | 0        |
| <b>Appia</b>   | 61   | 17.10          | 20.10        | 27.10        | 10        | 78                | 7         | 15        |          | 982         | 28         | 43         | 0        |
| <b>Average</b>   |      | <b>17.10</b>   | <b>20.10</b> | <b>27.10</b> | <b>10</b> | <b>76</b>         | <b>8</b>  | <b>16</b> |          | <b>966</b>  | <b>14</b>  | <b>45</b>  | <b>0</b> |
| very large frame. Relatively small curds. Good Facepack material. Un iform. Few defects. Looks good in tray. Clean leaf.                         |      |                |              |              |           |                   |           |           |          |             |            |            |          |
| <b>Monsanto</b>  | 47   | 20.10          | 20.10        | 31.10        | 11        | 63                | 22        | 15        |          | 712         | 127        | 130        | 16       |
| <b>Amiata</b>  | 62   | 20.10          | 24.10        | 27.10        | 7         | 87                | 10        | 3         |          | 1025        | 114        | 64         | 0        |
| <b>Average</b>   |      | <b>20.10</b>   | <b>22.10</b> | <b>29.10</b> | <b>9</b>  | <b>75</b>         | <b>16</b> | <b>9</b>  |          | <b>869</b>  | <b>121</b> | <b>97</b>  | <b>8</b> |
| Large leaf type. Slightly widebase to curds. A few loose off white curds. Large curds. Reasonable curd cover. Good Facepack material.            |      |                |              |              |           |                   |           |           |          |             |            |            |          |

**TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12**

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house  | PLOT | CUTTING PERIOD |              |              | DAYS      | Class     |           | Unmkt     | Facepack | Class 2    |             |            |           |
|---|------|----------------|--------------|--------------|-----------|-----------|-----------|-----------|----------|------------|-------------|------------|-----------|
|   |      | 10%            | 50%          | 90%          |           | 1         | 2         |           |          | Class 1    | Crates/Acre | 16         | 12        |
| <b>VARIETY</b>  |      |                |              |              |           | %         | %         | %         |          | 8          | 6           | 16         | 12        |
| <b>Clause</b>   | 63   | 13.10          | 17.10        | 20.10        | 7         | 87        | 7         | 6         |          | 878        | 98          | 37         | 0         |
| <b>NAVALO</b>   | 161  | 24.10          | 31.10        | 31.10        | 7         | 83        | 12        | 5         |          | 622        | 390         | 46         | 24        |
| <b>Average</b>  |      | <b>18.10</b>   | <b>24.10</b> | <b>25.10</b> | <b>7</b>  | <b>85</b> | <b>10</b> | <b>5</b>  |          | <b>750</b> | <b>244</b>  | <b>42</b>  | <b>12</b> |
| Slightly wide base to curds. Uniform. Well covered. Very good Facepack material. Medium depth. Smooth curds. Few defects.                     |      |                |              |              |           |           |           |           |          |            |             |            |           |
| <b>Monsanto</b>   | 64   | 17.10          | 20.10        | 24.10        | 7         | 78        | 10        | 12        |          | 787        | 98          | 55         | 0         |
| <b>ARICA</b>  | 162  | 24.10          | 31.10        | 7.11         | 14        | 68        | 30        | 2         |          | 695        | 73          | 128        | 12        |
| <b>Average</b>  |      | <b>20.10</b>   | <b>25.10</b> | <b>31.10</b> | <b>11</b> | <b>73</b> | <b>20</b> | <b>7</b>  |          | <b>741</b> | <b>86</b>   | <b>92</b>  | <b>6</b>  |
| Uniform. Good Facepack material. Medium/tall frame. Slightly twisted leaf over curds. Few defects. Looks good in tray. Easy to harvest.       |      |                |              |              |           |           |           |           |          |            |             |            |           |
| <b>Clause</b>   | 65   | 17.10          | 20.10        | 27.10        | 10        | 75        | 18        | 7         |          | 732        | 122         | 101        | 0         |
| <b>DIWAN</b>  | 163  | 31.10          | 3.11         | 10.11        | 10        | 77        | 17        | 6         |          | 842        | 0           | 92         | 0         |
| <b>Average</b>  |      | <b>24.10</b>   | <b>27.10</b> | <b>3.11</b>  | <b>10</b> | <b>76</b> | <b>18</b> | <b>6</b>  |          | <b>787</b> | <b>61</b>   | <b>97</b>  | <b>0</b>  |
| Uniform. Good Facepack material. Some large curds. Some small white bracts on curds from later transplanting. Good weight. Few other defects. |      |                |              |              |           |           |           |           |          |            |             |            |           |
| <b>Monsanto</b>   | 66   | 13.10          | 17.10        | 24.10        | 11        | 90        | 5         | 5         |          | 897        | 122         | 27         | 0         |
| <b>RX 5965</b>  | 164  | 24.10          | 24.10        | 31.10        | 7         | 83        | 12        | 5         |          | 860        | 73          | 46         | 24        |
| <b>Average</b>  |      | <b>18.10</b>   | <b>20.10</b> | <b>27.10</b> | <b>9</b>  | <b>87</b> | <b>8</b>  | <b>5</b>  |          | <b>879</b> | <b>98</b>   | <b>37</b>  | <b>12</b> |
| Uniform. Leafy frame. Twisted leaf over curds. Few defects. Very good Facepack material. Looks very good in tray. Easy to see, cut and pack.  |      |                |              |              |           |           |           |           |          |            |             |            |           |
| <b>Nickerson</b>  | 67   | 20.10          | 31.10        | 7.11         | 18        | 61        | 24        | 15        |          | 651        | 27          | 132        | 0         |
| <b>AC 10221</b>   | 165  | 3.11           | 10.11        | 20.11        | 17        | 50        | 27        | 23        |          | 549        | 0           | 147        | 0         |
| <b>Average</b>  |      | <b>27.10</b>   | <b>5.11</b>  | <b>13.11</b> | <b>17</b> | <b>56</b> | <b>25</b> | <b>19</b> |          | <b>600</b> | <b>14</b>   | <b>140</b> | <b>0</b>  |
| Slightly knobby curds. Good weight. Slightly wide base to curds. Good Facepack material. A few small white bracts/green bracts in curds.      |      |                |              |              |           |           |           |           |          |            |             |            |           |
| <b>Syngenta</b>   | 68   | 31.10          | 3.11         | 10.11        | 10        | 68        | 20        | 12        |          | 750        | 0           | 110        | 0         |
| <b>C 4013</b>   | 166  | 10.11          | 17.11        | 24.11        | 14        | 79        | 14        | 7         |          | 852        | 25          | 76         | 0         |
| <b>Average</b>  |      | <b>5.11</b>    | <b>10.11</b> | <b>17.11</b> | <b>12</b> | <b>74</b> | <b>17</b> | <b>9</b>  |          | <b>801</b> | <b>13</b>   | <b>93</b>  | <b>0</b>  |
| Good Facepack material. Slightly wide base to curds. Good weight. Uniform. Easy to see, cut and bag. Clean leaf. Looks good in tray.          |      |                |              |              |           |           |           |           |          |            |             |            |           |

## TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house   | PLOT | CUTTING PERIOD |              |              | DAYS      | Class     |           | Unmkt     | Facepack   | Class 2   |             |           |
|--|------|----------------|--------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-------------|-----------|
|  |      | 10%            | 50%          | 90%          |           | 1         | 2         |           |            | Class 1   | Crates/Acre | 16        |
| <b>VARIETY</b>   |      |                |              |              |           | %         | %         | %         | <b>8</b>   | <b>6</b>  | <b>16</b>   | <b>12</b> |
| <b>Nickerson</b>   | 69   | 24.10          | 31.10        | 14.11        | 21        | 67        | 23        | 10        | 769        | 0         | 128         | 0         |
| <b>AF 4089</b>   | 167  | 3.11           | 14.11        | 20.11        | 17        | 67        | 15        | 18        | 733        | 0         | 81          | 0         |
| <b>Average</b>   |      | <b>29.10</b>   | <b>7.11</b>  | <b>17.11</b> | <b>19</b> | <b>67</b> | <b>19</b> | <b>14</b> | <b>751</b> | <b>0</b>  | <b>105</b>  | <b>0</b>  |
| Uniform. Strong leaf. Good Facepack material. Large frame. A few small white bracts. Some loose curds mid November.                                |      |                |              |              |           |           |           |           |            |           |             |           |
| <b>Clause</b>  | 70   | 17.10          | 24.10        | 7.11         | 21        | 62        | 20        | 18        | 659        | 24        | 110         | 0         |
| <b>GALIOTE</b>   | 168  | 31.10          | 7.11         | 17.11        | 17        | 45        | 30        | 25        | 458        | 49        | 165         | 0         |
| <b>Average</b>   |      | <b>24.10</b>   | <b>31.10</b> | <b>12.11</b> | <b>19</b> | <b>54</b> | <b>25</b> | <b>21</b> | <b>559</b> | <b>37</b> | <b>138</b>  | <b>0</b>  |
| Uniform. Good Facepack material. A few off white curds. Some small white bracts. 25% loose curds with later transplanting. 18% small plants/curds  |      |                |              |              |           |           |           |           |            |           |             |           |
| <b>Nickerson</b>   | 71   | 24.10          | 31.10        | 7.11         | 14        | 30        | 40        | 30        | 329        | 0         | 210         | 12        |
| <b>AC 10031</b>  | 169  | 31.10          | 7.11         | 14.11        | 14        | 57        | 20        | 23        | 630        | 0         | 112         | 0         |
| <b>Average</b>   |      | <b>27.10</b>   | <b>3.11</b>  | <b>10.11</b> | <b>14</b> | <b>44</b> | <b>30</b> | <b>26</b> | <b>480</b> | <b>0</b>  | <b>161</b>  | <b>0</b>  |
| Tall frame. Strong midrib to leaf. Good weight. Slightly knobby curds. Poor colour/off white curds. Some irregular shaped curds. Not easy to pack. |      |                |              |              |           |           |           |           |            |           |             |           |
| <b>Nickerson</b>   | 72   | 3.11           | 14.11        | 24.11        | 21        | 65        | 20        | 15        | 714        | 0         | 110         | 0         |
| <b>CENDIS</b>  | 170  | 14.11          | 20.11        | 1.12         | 17        | 81        | 6         | 13        | 891        | 0         | 31          | 0         |
| <b>Average</b>   |      | <b>8.11</b>    | <b>17.11</b> | <b>27.11</b> | <b>19</b> | <b>73</b> | <b>13</b> | <b>14</b> | <b>803</b> | <b>0</b>  | <b>71</b>   | <b>0</b>  |
| Some small white bracts with earlier transplanting. Uniform. Good curd protection. Easy to see, cut and pack. Good Facepack material.              |      |                |              |              |           |           |           |           |            |           |             |           |
| <b>Monsanto</b>  | 73   | 24.10          | 27.10        | 31.1         | 7         | 86        | 8         | 6         | 944        | 0         | 44          | 0         |
| <b>RX 5982</b>   | 171  | 31.10          | 3.11         | 10.11        | 10        | 81        | 4         | 15        | 874        | 27        | 20          | 0         |
| <b>Average</b>   |      | <b>27.10</b>   | <b>30.10</b> | <b>5.11</b>  | <b>8</b>  | <b>84</b> | <b>6</b>  | <b>10</b> | <b>909</b> | <b>14</b> | <b>32</b>   | <b>0</b>  |
| Excellent Facepack material. Uniform. Easy to see, cut and pack. Looks good in trays. Very few defects. Good leaf cover. Clean leaf.               |      |                |              |              |           |           |           |           |            |           |             |           |
| <b>Elsoms</b>  | 74   | 20.10          | 27.10        | 3.11         | 14        | 67        | 12        | 21        | 695        | 49        | 64          | 0         |
| <b>BELOT</b>   | 172  | 7.11           | 14.11        | 20.11        | 13        | 54        | 26        | 20        | 590        | 0         | 142         | 0         |
| <b>Average</b>   |      | <b>29.10</b>   | <b>5.11</b>  | <b>11.11</b> | <b>13</b> | <b>61</b> | <b>19</b> | <b>20</b> | <b>643</b> | <b>25</b> | <b>103</b>  | <b>0</b>  |
| Uniform. Good Facepack material. A few off white curds. Some small white bracts with later transplanting. A few pink curds.                        |      |                |              |              |           |           |           |           |            |           |             |           |

## TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house      | PLOT | CUTTING PERIOD |              |              | DAYS     | Class     |           | Unmkt     | Facepack | Class 2    |             |           |          |
|-----------------|------|----------------|--------------|--------------|----------|-----------|-----------|-----------|----------|------------|-------------|-----------|----------|
|                 |      | 10%            | 50%          | 90%          |          | 1         | 2         |           |          | Class 1    | Crates/Acre | 16        | 12       |
| <b>VARIETY</b>  |      |                |              |              |          | %         | %         | %         |          | 8          | 6           | 16        | 12       |
| <b>Syngenta</b> | 75   | 10.11          | 14.11        | 17.11        | 7        | 67        | 19        | 14        |          | 732        | 0           | 102       | 0        |
| <b>C 5020</b>   | 173  | 17.11          | 17.11        | 20.11        | 3        | 88        | 5         | 7         |          | 966        | 0           | 28        | 0        |
| <b>Average</b>  |      | <b>13.11</b>   | <b>15.11</b> | <b>18.11</b> | <b>5</b> | <b>78</b> | <b>12</b> | <b>10</b> |          | <b>849</b> | <b>0</b>    | <b>65</b> | <b>0</b> |

Very good Facepack material. Easy to see, cut and bag. Heavy curds. Uniform. Paler inner leaf. Very few defects. Slightly crinkled leaves.

|                   |     |              |              |              |           |           |           |          |  |            |           |            |          |
|-------------------|-----|--------------|--------------|--------------|-----------|-----------|-----------|----------|--|------------|-----------|------------|----------|
| <b>Clause</b>     | 76  | 10.11        | 14.11        | 28.11        | 18        | 62        | 30        | 8        |  | 677        | 0         | 165        | 0        |
| <b>TRIUMPHANT</b> | 174 | 20.11        | 24.11        | 1.12         | 11        | 88        | 10        | 2        |  | 878        | 117       | 55         | 0        |
| <b>Average</b>    |     | <b>15.11</b> | <b>19.11</b> | <b>29.11</b> | <b>14</b> | <b>75</b> | <b>20</b> | <b>5</b> |  | <b>778</b> | <b>59</b> | <b>110</b> | <b>0</b> |

30% small white bracts on early planting. Solid curds. Uniform. Good Facepack material. Easy to see, cut and pack. Good curd cover.

|                 |     |              |              |              |          |           |           |           |  |            |          |            |          |
|-----------------|-----|--------------|--------------|--------------|----------|-----------|-----------|-----------|--|------------|----------|------------|----------|
| <b>Syngenta</b> | 77  | 17.11        | 20.11        | 24.11        | 7        | 44        | 30        | 26        |  | 488        | 0        | 162        | 0        |
| <b>FLORINO</b>  | 175 | 17.11        | 24.11        | 28.11        | 11       | 68        | 25        | 7         |  | 741        | 0        | 137        | 0        |
| <b>Average</b>  |     | <b>17.11</b> | <b>22.11</b> | <b>26.11</b> | <b>9</b> | <b>56</b> | <b>28</b> | <b>16</b> |  | <b>615</b> | <b>0</b> | <b>150</b> | <b>0</b> |

Open frame. 32% loose, off white curds with earlier transplanting. Light curds. A few white bracts. Much better at later transplanting.

|                |     |              |              |              |           |           |           |           |  |            |          |            |          |
|----------------|-----|--------------|--------------|--------------|-----------|-----------|-----------|-----------|--|------------|----------|------------|----------|
| <b>Tozer</b>   | 78  | 14.11        | 20.11        | 24.11        | 10        | 22        | 39        | 39        |  | 244        | 0        | 213        | 0        |
| <b>1001</b>    | 176 | 20.11        | 24.11        | 1.12         | 11        | 25        | 45        | 30        |  | 274        | 0        | 247        | 0        |
| <b>Average</b> |     | <b>17.11</b> | <b>22.11</b> | <b>27.11</b> | <b>10</b> | <b>24</b> | <b>42</b> | <b>34</b> |  | <b>259</b> | <b>0</b> | <b>230</b> | <b>0</b> |

Large frame. Small loose (37%) off white flattish curds. Poor colour. Slightly wide base to curds. Knobby curds.

|                 |     |             |              |              |           |           |           |           |  |            |           |           |          |
|-----------------|-----|-------------|--------------|--------------|-----------|-----------|-----------|-----------|--|------------|-----------|-----------|----------|
| <b>Syngenta</b> | 79  | 3.11        | 10.11        | 20.11        | 17        | 57        | 26        | 17        |  | 552        | 0         | 125       | 0        |
| <b>LORIEN</b>   | 177 | 3.11        | 17.11        | 24.11        | 21        | 78        | 11        | 11        |  | 712        | 47        | 44        | 12       |
| <b>Average</b>  |     | <b>3.11</b> | <b>13.11</b> | <b>20.11</b> | <b>19</b> | <b>68</b> | <b>18</b> | <b>14</b> |  | <b>632</b> | <b>24</b> | <b>85</b> | <b>6</b> |

Very good Facepack material. Uniform. Easy to see, cut and bag. A few loose curds with earlier transplanting. Few defects with later planting.

|                 |     |              |              |              |           |           |           |           |  |            |           |           |          |
|-----------------|-----|--------------|--------------|--------------|-----------|-----------|-----------|-----------|--|------------|-----------|-----------|----------|
| <b>Monsanto</b> | 80  | 3.11         | 14.11        | 20.11        | 17        | 77        | 8         | 15        |  | 721        | 32        | 36        | 0        |
| <b>TYPICAL</b>  | 178 | 17.11        | 20.11        | 24.11        | 7         | 54        | 16        | 30        |  | 489        | 45        | 76        | 0        |
| <b>Average</b>  |     | <b>10.11</b> | <b>17.11</b> | <b>22.11</b> | <b>12</b> | <b>66</b> | <b>12</b> | <b>22</b> |  | <b>605</b> | <b>39</b> | <b>56</b> | <b>0</b> |

Very leafy. Slightly wide base to curds. Good weight. Good Facepack material. Uniform. A few loose curds. Smaller frame/curds with later planting.

## TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house       | PLOT | CUTTING PERIOD |              |              | DAYS      | Class     |           | Unmkt     | Facepack   | Class 2   |             |          |    |
|------------------|------|----------------|--------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|-------------|----------|----|
|                  |      | 10%            | 50%          | 90%          |           | 1         | 2         |           |            | Class 1   | Crates/Acre | 16       | 12 |
| <b>VARIETY</b>   |      |                |              |              |           | %         | %         | %         |            | 8         | 6           | 16       | 12 |
| <b>Nickerson</b> | 81   | 10.11          | 14.11        | 28.11        | 18        | 57        | 19        | 24        | 544        | 0         | 91          | 0        |    |
| <b>AC 9130</b>   | 179  | 17.11          | 20.11        | 1.12         | 14        | 78        | 6         | 16        | 730        | 26        | 29          | 0        |    |
| <b>Average</b>   |      | <b>13.11</b>   | <b>17.11</b> | <b>29.11</b> | <b>16</b> | <b>68</b> | <b>12</b> | <b>20</b> | <b>637</b> | <b>13</b> | <b>60</b>   | <b>0</b> |    |

Uniform. Good weight. 24% loose curds with early transplanting. Some good Facepack material. No loose or ricey curds with later transplanting.

|                |     |             |              |              |           |           |           |           |            |           |            |          |
|----------------|-----|-------------|--------------|--------------|-----------|-----------|-----------|-----------|------------|-----------|------------|----------|
| <b>Elsoms</b>  | 82  | 31.10       | 7.11         | 17.11        | 17        | 37        | 39        | 24        | 407        | 0         | 214        | 0        |
| <b>MAGINOT</b> | 180 | 14.11       | 17.11        | 28.11        | 14        | 78        | 9         | 13        | 712        | 47        | 44         | 0        |
| <b>Average</b> |     | <b>7.11</b> | <b>12.11</b> | <b>22.11</b> | <b>15</b> | <b>58</b> | <b>24</b> | <b>18</b> | <b>560</b> | <b>24</b> | <b>129</b> | <b>0</b> |

Small white bracts on early planting, none on later planting. Good weight. Uniform. Easy to see, cut and bag. Very good Facepack material.

|                |     |             |              |            |           |           |           |           |            |          |           |          |
|----------------|-----|-------------|--------------|------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|
| <b>Clause</b>  | 83  | 1.12        | 19.12        | 29.12      | 28        | 64        | 22        | 14        | 615        | 0        | 106       | 0        |
| <b>JUBARTE</b> | 181 | 12.12       | 29.12        | 5.1        | 24        | 72        | 10        | 18        | 692        | 0        | 48        | 0        |
| <b>Average</b> |     | <b>6.12</b> | <b>24.12</b> | <b>1.1</b> | <b>26</b> | <b>68</b> | <b>16</b> | <b>16</b> | <b>654</b> | <b>0</b> | <b>77</b> | <b>0</b> |

26% creamy curds. Good Facepack material. Uniform. Good weight. Solid curds. Clean leaf. Looks good in tray. Good curd protection

|                 |     |              |             |              |           |           |           |          |            |          |            |          |
|-----------------|-----|--------------|-------------|--------------|-----------|-----------|-----------|----------|------------|----------|------------|----------|
| <b>Tozer</b>    | 84  | 24.11        | 1.12        | 19.12        | 25        | 73        | 20        | 7        | 705        | 0        | 96         | 0        |
| <b>1043 CMS</b> | 182 | 1.12         | 12.12       | 19.12        | 18        | 72        | 22        | 6        | 692        | 0        | 106        | 0        |
| <b>Average</b>  |     | <b>27.11</b> | <b>6.12</b> | <b>19.12</b> | <b>22</b> | <b>73</b> | <b>21</b> | <b>6</b> | <b>699</b> | <b>0</b> | <b>101</b> | <b>0</b> |

Very well protected curds. Solid curds. Good Facepack material. Strong Roscoff type. Easy to see, cut and pack. Needs cutting every 3 days.

|                 |     |              |              |              |           |           |           |          |            |           |            |          |
|-----------------|-----|--------------|--------------|--------------|-----------|-----------|-----------|----------|------------|-----------|------------|----------|
| <b>Syngenta</b> | 85  | 14.11        | 17.11        | 24.11        | 10        | 80        | 18        | 2        | 751        | 23        | 87         | 0        |
| <b>C 5016</b>   | 183 | 17.11        | 20.11        | 28.11        | 11        | 68        | 24        | 8        | 615        | 51        | 115        | 0        |
| <b>Average</b>  |     | <b>15.11</b> | <b>18.11</b> | <b>26.11</b> | <b>11</b> | <b>74</b> | <b>21</b> | <b>5</b> | <b>683</b> | <b>37</b> | <b>101</b> | <b>0</b> |

Roscoff type. Very good Facepack material. Very uniform. Easy to see, cut and pack. Very few defects. Few creamy curds with later planting.

|                |     |              |              |              |           |           |           |           |            |          |           |          |
|----------------|-----|--------------|--------------|--------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|
| <b>Elsoms</b>  | 86  | 24.11        | 8.12         | 23.12        | 29        | 68        | 14        | 18        | 653        | 0        | 67        | 0        |
| <b>BJ 2784</b> | 184 | 1.12         | 12.12        | 23.12        | 22        | 68        | 20        | 12        | 653        | 0        | 96        | 0        |
| <b>Average</b> |     | <b>27.11</b> | <b>10.12</b> | <b>23.12</b> | <b>26</b> | <b>68</b> | <b>17</b> | <b>15</b> | <b>653</b> | <b>0</b> | <b>82</b> | <b>0</b> |

Upright frame. Roscoff type. Easy to see, cut and pack. Uniform. Slightly creamy curds. Looks good in tray. Good Facepack material.

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First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house   | PLOT | CUTTING PERIOD |            |             | DAYS      | Class     |           | Unmkt     | Facepack | Class 1    | Class 2     |           |           |
|--|------|----------------|------------|-------------|-----------|-----------|-----------|-----------|----------|------------|-------------|-----------|-----------|
|  |      | 10%            | 50%        | 90%         |           | 1         | 2         |           |          |            | Crates/Acre | 16        | 12        |
| <b>VARIETY</b>   |      |                |            |             |           | %         | %         | %         |          | <b>8</b>   | <b>6</b>    | <b>16</b> | <b>12</b> |
| <b>Tozer</b>   | 87   | 23.12          | 2.1        | 9.1         | 17        | 60        | 22        | 18        |          | 577        | 0           | 106       | 0         |
| <b>1018</b>  | 185  | 2.1            | 16.1       | 26.1        | 24        | 78        | 10        | 12        |          | 749        | 0           | 48        | 0         |
| <b>Average</b>   |      | <b>28.12</b>   | <b>9.1</b> | <b>17.1</b> | <b>20</b> | <b>69</b> | <b>16</b> | <b>15</b> |          | <b>663</b> | <b>0</b>    | <b>77</b> | <b>0</b>  |
| Large frame. Uniform. Some good Facepack material. Medium/smallish curds. Better at the later transplanting. |      |                |            |             |           |           |           |           |          |            |             |           |           |

|   |     |              |              |              |           |           |           |           |  |            |          |           |          |
|---|-----|--------------|--------------|--------------|-----------|-----------|-----------|-----------|--|------------|----------|-----------|----------|
| <b>Monsanto</b>   | 88  | 20.11        | 12.12        | 19.12        | 29        | 50        | 20        | 30        |  | 480        | 0        | 96        | 0        |
| <b>TERMINELLO</b>   | 186 | 1.12         | 23.12        | 29.12        | 28        | 47        | 20        | 33        |  | 448        | 0        | 96        | 0        |
| <b>Average</b>  |     | <b>25.11</b> | <b>17.12</b> | <b>24.12</b> | <b>29</b> | <b>49</b> | <b>20</b> | <b>31</b> |  | <b>464</b> | <b>0</b> | <b>96</b> | <b>0</b> |
| Some white/green bracts and loose curds with early transplanting. Uneven shaped curds. Easy to see, cut and bag. Some creamy curds. |     |              |              |              |           |           |           |           |  |            |          |           |          |

|  |     |              |            |             |           |           |           |           |  |            |          |            |          |
|--|-----|--------------|------------|-------------|-----------|-----------|-----------|-----------|--|------------|----------|------------|----------|
| <b>Syngenta</b>  | 89  | 29.12        | 5.1        | 9.1         | 11        | 24        | 36        | 40        |  | 231        | 0        | 173        | 0        |
| <b>C5018</b>   | 187 | 2.1          | 12.1       | 19.1        | 17        | 24        | 44        | 32        |  | 231        | 0        | 192        | 0        |
| <b>Average</b>   |     | <b>31.12</b> | <b>8.1</b> | <b>14.1</b> | <b>14</b> | <b>24</b> | <b>40</b> | <b>36</b> |  | <b>231</b> | <b>0</b> | <b>192</b> | <b>0</b> |
| Dark green upright habit. Smallish curds. Very uniform. Open habit. Off white curds due to open habit. |     |              |            |             |           |           |           |           |  |            |          |            |          |

|   |     |            |             |             |           |           |           |           |  |            |          |           |          |
|---|-----|------------|-------------|-------------|-----------|-----------|-----------|-----------|--|------------|----------|-----------|----------|
| <b>Monsanto</b>   | 90  | 5.1        | 12.1        | 23.1        | 18        | 66        | 16        | 18        |  | 634        | 0        | 89        | 0        |
| <b>RX 5697</b>  | 188 | 12.1       | 26.1        | 6.2         | 25        | 84        | 4         | 12        |  | 807        | 0        | 19        | 0        |
| <b>Average</b>  |     | <b>8.1</b> | <b>19.1</b> | <b>30.1</b> | <b>22</b> | <b>75</b> | <b>10</b> | <b>15</b> |  | <b>721</b> | <b>0</b> | <b>54</b> | <b>0</b> |
| Some green bracts on early curds. (10%) Clean leaf. Medium/deep curds. Very good Facepack, few defects with later planting. |     |            |             |             |           |           |           |           |  |            |          |           |          |

|   |     |              |            |             |           |           |          |           |  |            |          |           |          |
|---|-----|--------------|------------|-------------|-----------|-----------|----------|-----------|--|------------|----------|-----------|----------|
| <b>Syngenta</b>   | 91  | 19.12        | 29.12      | 9.1         | 21        | 68        | 8        | 24        |  | 653        | 0        | 38        | 0        |
| <b>C 5027</b>   | 189 | 29.12        | 5.1        | 6.2         | 39        | 70        | 4        | 26        |  | 764        | 0        | 24        | 0        |
| <b>Average</b>  |     | <b>24.12</b> | <b>1.1</b> | <b>23.1</b> | <b>30</b> | <b>69</b> | <b>6</b> | <b>25</b> |  | <b>709</b> | <b>0</b> | <b>31</b> | <b>0</b> |
| Very heavy solid curds. Good Facepack material. Looks very good in tray. Uniform. Some small curds. Good cover. Clean leaf. |     |              |            |             |           |           |          |           |  |            |          |           |          |

|   |     |             |             |             |           |           |          |           |  |            |          |           |          |
|---|-----|-------------|-------------|-------------|-----------|-----------|----------|-----------|--|------------|----------|-----------|----------|
| <b>Nickerson</b>  | 92  | 2.1         | 9.1         | 16.1        | 14        | 64        | 14       | 22        |  | 615        | 0        | 67        | 0        |
| <b>AB 1004</b>  | 190 | 5.1         | 16.1        | 23.1        | 18        | 88        | 4        | 8         |  | 846        | 0        | 19        | 0        |
| <b>Average</b>  |     | <b>3.10</b> | <b>12.1</b> | <b>19.1</b> | <b>16</b> | <b>76</b> | <b>9</b> | <b>15</b> |  | <b>731</b> | <b>0</b> | <b>43</b> | <b>0</b> |
| Pointed frame. Some poor leaf quality at base of leaves. Strong stump. Wide stump. Some good Facepack material. Much better at later transplanting. |     |             |             |             |           |           |          |           |  |            |          |           |          |

## TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house     | PLOT | CUTTING PERIOD |             |            | DAYS      | Class     | Class    | Unmkt    | Facepack   | Class 1   | Crates/Acre | Class 2  |
|----------------|------|----------------|-------------|------------|-----------|-----------|----------|----------|------------|-----------|-------------|----------|
| VARIETY        |      | 10%            | 50%         | 90%        |           | 1         | 2        |          | 8          | 6         | 16          | 12       |
|                |      |                |             |            |           | %         | %        | %        |            |           |             |          |
| Clause         | 93   | 9.1            | 23.1        | 26.1       | 17        | 84        | 8        | 8        | 807        | 0         | 38          | 0        |
| Brick          | 191  | 26.1           | 30.1        | 17.2       | 22        | 86        | 4        | 10       | 749        | 102       | 19          | 0        |
| <b>Average</b> |      | <b>17.1</b>    | <b>26.1</b> | <b>6.2</b> | <b>20</b> | <b>85</b> | <b>6</b> | <b>9</b> | <b>778</b> | <b>51</b> | <b>59</b>   | <b>0</b> |

Tight leaf over curds. Slightly wide base to curds. Light curds. Uniform. Good Facepack material. Clean leaf. Heavier at later planting. Few defects.

|                |     |              |             |             |           |           |          |          |            |          |           |          |
|----------------|-----|--------------|-------------|-------------|-----------|-----------|----------|----------|------------|----------|-----------|----------|
| Monsanto       | 94  | 23.12        | 5.1         | 16.1        | 24        | 82        | 9        | 8        | 790        | 0        | 43        | 0        |
| Tintagel       | 192 | 29.12        | 16.1        | 23.1        | 25        | 88        | 4        | 8        | 846        | 0        | 19        | 0        |
| <b>Average</b> |     | <b>26.12</b> | <b>10.1</b> | <b>19.1</b> | <b>24</b> | <b>85</b> | <b>7</b> | <b>8</b> | <b>818</b> | <b>0</b> | <b>31</b> | <b>0</b> |

Solid curds. Clean leaf. Few defects. Very good Facepack material. Uniform. Looks very good in tray. Good curd cover.

|                |     |             |             |             |           |           |           |           |            |          |           |          |
|----------------|-----|-------------|-------------|-------------|-----------|-----------|-----------|-----------|------------|----------|-----------|----------|
| Nickerson      | 95  | 29.12       | 19.1        | 23.1        | 25        | 78        | 10        | 12        | 730        | 26       | 48        | 0        |
| AC 7111        | 193 | 23.1        | 26.1        | 6.2         | 14        | 80        | 10        | 10        | 769        | 0        | 48        | 0        |
| <b>Average</b> |     | <b>10.1</b> | <b>22.1</b> | <b>30.1</b> | <b>20</b> | <b>79</b> | <b>10</b> | <b>11</b> | <b>750</b> | <b>0</b> | <b>48</b> | <b>0</b> |

Very good Facepack material. Uniform. Few defects. Looks good in tray. Medium depth curds. Clean leaf. Good protection.

|                |     |            |             |             |           |           |          |           |            |          |           |          |
|----------------|-----|------------|-------------|-------------|-----------|-----------|----------|-----------|------------|----------|-----------|----------|
| Clause         | 96  | 23.1       | 17.2        | 20.2        | 28        | 74        | 10       | 16        | 711        | 0        | 48        | 0        |
| REDOUTABLE     | 194 | 17.2       | 23.2        | 27.2        | 10        | 90        | 2        | 8         | 865        | 0        | 10        | 0        |
| <b>Average</b> |     | <b>4.2</b> | <b>20.2</b> | <b>23.2</b> | <b>19</b> | <b>82</b> | <b>6</b> | <b>12</b> | <b>788</b> | <b>0</b> | <b>29</b> | <b>0</b> |

Solid curds. Smallish frame. Good curd protection. Roscoff leaf type. Clean leaf. Very good Facepack material. Very few defects.

|                |     |             |             |             |           |           |          |          |            |          |           |          |
|----------------|-----|-------------|-------------|-------------|-----------|-----------|----------|----------|------------|----------|-----------|----------|
| Nickerson      | 97  | 16.1        | 23.1        | 6.2         | 21        | 92        | 2        | 6        | 884        | 0        | 10        | 0        |
| DIONIS         | 195 | 23.1        | 26.1        | 17.2        | 25        | 78        | 10       | 12       | 749        | 0        | 48        | 0        |
| <b>Average</b> |     | <b>19.1</b> | <b>24.1</b> | <b>11.2</b> | <b>23</b> | <b>85</b> | <b>6</b> | <b>9</b> | <b>816</b> | <b>0</b> | <b>29</b> | <b>0</b> |

Uniform. Very good Facepack material. Very few defects. Looks good in tray. Clean leaf. Good weight.

|                |     |            |             |             |           |           |          |           |            |          |           |          |
|----------------|-----|------------|-------------|-------------|-----------|-----------|----------|-----------|------------|----------|-----------|----------|
| Syngenta       | 98  | 23.1       | 17.2        | 23.2        | 31        | 84        | 0        | 16        | 807        | 0        | 0         | 0        |
| C 5022         | 196 | 13.2       | 23.2        | 27.2        | 14        | 78        | 8        | 14        | 754        | 0        | 38        | 0        |
| <b>Average</b> |     | <b>2.2</b> | <b>20.2</b> | <b>25.2</b> | <b>23</b> | <b>81</b> | <b>4</b> | <b>15</b> | <b>781</b> | <b>0</b> | <b>19</b> | <b>0</b> |

Upright leaves. Solid curds. Very good Facepack material. Easy to see, cut and pack. Uniform. Very few defects. Clean leaf. A few small curds.

## TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house     | PLOT | CUTTING PERIOD |            |             | DAYS     | Class     |          | Unmkt    | Facepack | Class 2    |             |           |          |
|----------------|------|----------------|------------|-------------|----------|-----------|----------|----------|----------|------------|-------------|-----------|----------|
|                |      | 10%            | 50%        | 90%         |          | 1         | 2        |          |          | Class 1    | Crates/Acre | 16        | 12       |
| VARIETY        |      |                |            |             |          | %         | %        | %        |          | 8          | 6           | 16        | 12       |
| <b>Clause</b>  | 99   | 1.3            | 5.3        | 8.3         | 7        | 92        | 3        | 5        |          | 952        | 73          | 18        | 0        |
| <b>MATELOT</b> | 197  | 1.3            | 8.3        | 12.3        | 11       | 78        | 11       | 11       |          | 859        | 0           | 60        | 0        |
| <b>Average</b> |      | <b>1.3</b>     | <b>6.3</b> | <b>10.3</b> | <b>9</b> | <b>85</b> | <b>7</b> | <b>8</b> |          | <b>906</b> | <b>36</b>   | <b>39</b> | <b>0</b> |

Severe twist to frame. Not easy to see curds. Solid curds, very well protected. Uniform. Good Facepack material. Few defects.

|                 |     |            |             |             |           |           |           |           |  |            |          |            |          |
|-----------------|-----|------------|-------------|-------------|-----------|-----------|-----------|-----------|--|------------|----------|------------|----------|
| <b>Monsanto</b> | 100 | 2.1        | 9.1         | 16.1        | 14        | 64        | 30        | 6         |  | 703        | 0        | 165        | 0        |
| <b>TREKNOW</b>  | 198 | 2.1        | 16.1        | 23.1        | 21        | 33        | 35        | 32        |  | 358        | 0        | 191        | 0        |
| <b>Average</b>  |     | <b>2.1</b> | <b>12.1</b> | <b>19.1</b> | <b>18</b> | <b>49</b> | <b>32</b> | <b>19</b> |  | <b>531</b> | <b>0</b> | <b>178</b> | <b>0</b> |

Some good Facepack material. Tendency to turn off white. Needs cutting every 2 days. Good weight. Some small plants/curds with late planting.

|                  |     |            |             |             |           |           |           |           |  |            |          |            |          |
|------------------|-----|------------|-------------|-------------|-----------|-----------|-----------|-----------|--|------------|----------|------------|----------|
| <b>Nickerson</b> | 101 | 5.1        | 9.1         | 19.1        | 14        | 64        | 18        | 18        |  | 703        | 0        | 99         | 0        |
| <b>AC 7140</b>   | 199 | 5.1        | 19.1        | 26.1        | 21        | 38        | 24        | 38        |  | 417        | 0        | 132        | 0        |
| <b>Average</b>   |     | <b>5.1</b> | <b>14.1</b> | <b>22.1</b> | <b>18</b> | <b>51</b> | <b>21</b> | <b>28</b> |  | <b>560</b> | <b>0</b> | <b>116</b> | <b>0</b> |

Xanthomonas on outer leaves. Some good Facepack material. Some small plants/curds. Open frame. Tendency to turn off white. Poor cover leaves.

|                |     |             |             |             |           |           |          |           |  |            |          |           |          |
|----------------|-----|-------------|-------------|-------------|-----------|-----------|----------|-----------|--|------------|----------|-----------|----------|
| <b>Clause</b>  | 102 | 6.2         | 20.2        | 23.2        | 17        | 78        | 10       | 12        |  | 856        | 0        | 55        | 0        |
| <b>FLEET</b>   | 200 | 20.2        | 23.2        | 27.2        | 7         | 80        | 2        | 18        |  | 879        | 0        | 11        | 0        |
| <b>Average</b> |     | <b>13.2</b> | <b>21.2</b> | <b>25.2</b> | <b>12</b> | <b>79</b> | <b>6</b> | <b>15</b> |  | <b>868</b> | <b>0</b> | <b>33</b> | <b>0</b> |

Uniform. Few small curds. Will turn offwhite, cut every 3 days. Good Facepack material. Reasonable protection. Solid curds. Looks good in tray.

|                 |     |              |              |            |           |           |           |           |  |            |          |           |          |
|-----------------|-----|--------------|--------------|------------|-----------|-----------|-----------|-----------|--|------------|----------|-----------|----------|
| <b>Monsanto</b> | 103 | 23.12        | 29.12        | 2.1        | 10        | 60        | 21        | 19        |  | 655        | 0        | 116       | 0        |
| <b>RX 5822</b>  | 201 | 23.12        | 29.12        | 5.1        | 13        | 70        | 10        | 20        |  | 769        | 0        | 55        | 0        |
| <b>Average</b>  |     | <b>23.12</b> | <b>29.12</b> | <b>3.1</b> | <b>11</b> | <b>65</b> | <b>16</b> | <b>19</b> |  | <b>712</b> | <b>0</b> | <b>86</b> | <b>0</b> |

Good Facepack material. Good weight. Solid curds. Uniform. A few small plants/curds. Will turn off white, cut every 3 days. Reasonable curd cover.

|                 |     |            |            |             |           |           |          |           |  |            |           |           |          |
|-----------------|-----|------------|------------|-------------|-----------|-----------|----------|-----------|--|------------|-----------|-----------|----------|
| <b>Clause</b>   | 104 | 5.3        | 8.3        | 12.3        | 7         | 84        | 4        | 12        |  | 856        | 88        | 22        | 0        |
| <b>MASCARET</b> | 202 | 1.3        | 8.3        | 15.3        | 14        | 86        | 2        | 12        |  | 944        | 0         | 10        | 0        |
| <b>Average</b>  |     | <b>3.3</b> | <b>8.3</b> | <b>13.3</b> | <b>10</b> | <b>85</b> | <b>3</b> | <b>12</b> |  | <b>900</b> | <b>44</b> | <b>16</b> | <b>0</b> |

Uniform. Deep solid curds. Easy to see, cut and pack. Very Good Facepack material. Twisted leaf over tight curds.

## TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house   | PLOT | CUTTING PERIOD |             |             | DAYS      | Class     |           | Unmkt     | Facepack   | Class 2   |             |          |
|--|------|----------------|-------------|-------------|-----------|-----------|-----------|-----------|------------|-----------|-------------|----------|
|  |      | 10%            | 50%         | 90%         |           | 1         | 2         |           |            | Class 1   | Crates/Acre | 16       |
| VARIETY  |      |                |             |             |           | %         | %         | %         | 8          | 6         | 16          | 12       |
| <b>Syngenta</b>  | 105  | 27.2           | 8.3         | 12.3        | 14        | 82        | 7         | 11        | 902        | 0         | 29          | 13       |
| <b>SGC 5007</b>  | 203  | 1.3            | 8.3         | 12.3        | 11        | 92        | 3         | 5         | 988        | 24        | 18          | 0        |
| <b>Average</b>   |      | <b>28.2</b>    | <b>8.3</b>  | <b>12.3</b> | <b>13</b> | <b>87</b> | <b>5</b>  | <b>8</b>  | <b>945</b> | <b>12</b> | <b>24</b>   | <b>6</b> |
| Dark green leaf. Pointed upright leaves. Slightly crinkled leaf. Very uniform. Very Good Facepack material. Few defects.                         |      |                |             |             |           |           |           |           |            |           |             |          |
| <b>Elsoms</b>  | 106  | 5.3            | 8.3         | 12.3        | 7         | 87        | 0         | 13        | 961        | 0         | 0           | 0        |
| <b>CAPULET</b>   | 204  | 5.3            | 12.3        | 16.3        | 11        | 85        | 3         | 12        | 878        | 73        | 18          | 0        |
| <b>Average</b>   |      | <b>5.3</b>     | <b>10.3</b> | <b>14.3</b> | <b>9</b>  | <b>86</b> | <b>2</b>  | <b>12</b> | <b>919</b> | <b>37</b> | <b>9</b>    | <b>0</b> |
| Uniform. Very good Facepack material. Good weight. Very few defects. Clean leaf. Easy to cut and bag. A few small curds.                         |      |                |             |             |           |           |           |           |            |           |             |          |
| <b>Syngenta</b>  | 107  | 20.2           | 1.3         | 8.3         | 17        | 77        | 7         | 16        | 842        | 0         | 37          | 0        |
| <b>SGC 5008</b>  | 205  | 23.2           | 5.3         | 12.3        | 18        | 85        | 5         | 10        | 938        | 0         | 30          | 0        |
| <b>Average</b>   |      | <b>21.2</b>    | <b>3.3</b>  | <b>10.3</b> | <b>18</b> | <b>81</b> | <b>6</b>  | <b>13</b> | <b>890</b> | <b>0</b>  | <b>34</b>   | <b>0</b> |
| Very few defects except some small plants/curds. Very Good Facepack material. Uniform. Looks good in tray.                                       |      |                |             |             |           |           |           |           |            |           |             |          |
| <b>Tozer</b>   | 108  | 5.3            | 12.3        | 16.3        | 11        | 88        | 3         | 9         | 966        | 0         | 19          | 0        |
| <b>2038</b>  | 206  | 5.3            | 12.3        | 16.3        | 11        | 93        | 2         | 5         | 1018       | 0         | 10          | 0        |
| <b>Average</b>   |      | <b>5.3</b>     | <b>12.3</b> | <b>16.3</b> | <b>11</b> | <b>91</b> | <b>2</b>  | <b>7</b>  | <b>992</b> | <b>0</b>  | <b>15</b>   | <b>0</b> |
| Very good Facepack material. Roscoff type. Very clean leaf. Solid medium/deep curds. Easy to see, cut and bag. Good cover over curds.            |      |                |             |             |           |           |           |           |            |           |             |          |
| <b>Elsoms</b>  | 109  | 8.3            | 12.3        | 16.3        | 8         | 90        | 3         | 7         | 988        | 0         | 18          | 0        |
| <b>MADIOT</b>  | 207  | 5.3            | 12.3        | 16.3        | 11        | 87        | 7         | 6         | 933        | 24        | 37          | 0        |
| <b>Average</b>   |      | <b>6.3</b>     | <b>12.3</b> | <b>16.3</b> | <b>10</b> | <b>89</b> | <b>5</b>  | <b>6</b>  | <b>961</b> | <b>12</b> | <b>28</b>   | <b>0</b> |
| Excellent Facepack material. Uniform. Clean leaf. Good weight. Very few defects. Looks very good in tray. Easy to cut and bag.                   |      |                |             |             |           |           |           |           |            |           |             |          |
| <b>Monsanto</b>  | 110  | 23.1           | 26.1        | 20.2        | 28        | 64        | 18        | 18        | 703        | 0         | 99          | 0        |
| <b>RX 5829</b>   | 208  | 4.2            | 23.2        | 5.3         | 30        | 78        | 14        | 8         | 835        | 29        | 66          | 15       |
| <b>Average</b>   |      | <b>29.1</b>    | <b>9.2</b>  | <b>27.2</b> | <b>29</b> | <b>71</b> | <b>16</b> | <b>13</b> | <b>769</b> | <b>15</b> | <b>83</b>   | <b>7</b> |
| Slightly crinkled leaf. Tight leaves over curds. Good weight. Uniform. Good Facepack material. Will turn offwhite, cut every 3 days. Clean leaf. |      |                |             |             |           |           |           |           |            |           |             |          |

## TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house     | PLOT | CUTTING PERIOD |            |     | DAYS | Class |    | Unmkt | Facepack | Class 2 |             |     |    |
|----------------|------|----------------|------------|-----|------|-------|----|-------|----------|---------|-------------|-----|----|
|                |      | 10%            | 50%        | 90% |      | 1     | 2  |       |          | Class 1 | Crates/Acre | 16  | 12 |
| <b>VARIETY</b> |      |                |            |     |      | %     | %  | %     |          | 8       | 6           | 16  | 12 |
| Nickerson      | 111  | 20.2           | 27.2       | 5.3 | 14   | 48    | 22 | 30    |          | 531     | 0           | 119 | 0  |
| AE 9311        | 209  | 1.3            | 8.3        |     |      |       |    |       |          |         |             |     |    |
| <b>Average</b> |      | <b>25.2</b>    | <b>3.3</b> |     |      |       |    |       |          |         |             |     |    |

Easy to cut and pack. Uniform. Some leaf scorch on outer leaves (frost damage). Good Facepack material. Will turn offwhite, cut every 2/3 days

|                |     |            |             |             |           |           |           |           |  |            |          |           |          |
|----------------|-----|------------|-------------|-------------|-----------|-----------|-----------|-----------|--|------------|----------|-----------|----------|
| Monsanto       | 112 | 9.1        | 12.1        | 19.1        | 10        | 76        | 16        | 8         |  | 835        | 0        | 88        | 0        |
| RX 5847        | 210 | 9.1        | 19.1        | 26.1        | 17        | 64        | 20        | 16        |  | 703        | 0        | 110       | 0        |
| <b>Average</b> |     | <b>9.1</b> | <b>15.1</b> | <b>22.1</b> | <b>13</b> | <b>70</b> | <b>18</b> | <b>12</b> |  | <b>769</b> | <b>0</b> | <b>99</b> | <b>0</b> |

Very good Facepack material. Uniform. Good curd cover. Easy to cut and bag. Clean leaf. Will turn off white, cut every 3 days.

|                |     |            |             |             |          |           |          |          |  |             |           |          |          |
|----------------|-----|------------|-------------|-------------|----------|-----------|----------|----------|--|-------------|-----------|----------|----------|
| Elsoms         | 113 | 5.3        | 8.3         | 12.3        | 7        | 95        | 0        | 5        |  | 1034        | 28        | 0        | 0        |
| MYSTIQUE       | 211 | 5.3        | 12.3        | 16.3        | 11       | 90        | 2        | 8        |  | 970         | 24        | 9        | 0        |
| <b>Average</b> |     | <b>5.3</b> | <b>10.3</b> | <b>14.3</b> | <b>9</b> | <b>93</b> | <b>1</b> | <b>6</b> |  | <b>1002</b> | <b>26</b> | <b>5</b> | <b>0</b> |

Very uniform. Tight leaf over curds. Lightweight curds. Looks good in tray. Small frame. Easy to see, cut and bag. Good Facepack material.

|                |     |             |             |             |           |           |          |          |  |            |           |           |          |
|----------------|-----|-------------|-------------|-------------|-----------|-----------|----------|----------|--|------------|-----------|-----------|----------|
| Syngenta       | 114 | 16.3        | 22.3        | 29.3        | 13        | 87        | 4        | 9        |  | 902        | 78        | 20        | 0        |
| Charif         | 212 | 12.3        | 22.3        | 29.3        | 17        | 93        | 2        | 5        |  | 1024       | 0         | 9         | 0        |
| <b>Average</b> |     | <b>14.3</b> | <b>22.3</b> | <b>29.3</b> | <b>15</b> | <b>90</b> | <b>3</b> | <b>7</b> |  | <b>963</b> | <b>39</b> | <b>15</b> | <b>0</b> |

Uniform. Very good Facepack material. Some large curds. Deep solid heavy curds. Few defects. Looks good in tray. A few small plants/curds.

|                |     |            |             |             |           |           |           |           |  |            |          |           |          |
|----------------|-----|------------|-------------|-------------|-----------|-----------|-----------|-----------|--|------------|----------|-----------|----------|
| Tozer          | 115 | 30.1       | 23.2        | 27.2        | 28        | 76        | 18        | 6         |  | 835        | 0        | 99        | 0        |
| 2067           | 213 | 17.2       | 23.2        | 1.3         | 13        | 74        | 8         | 18        |  | 813        | 0        | 44        | 0        |
| <b>Average</b> |     | <b>8.2</b> | <b>23.2</b> | <b>28.2</b> | <b>20</b> | <b>75</b> | <b>13</b> | <b>12</b> |  | <b>824</b> | <b>0</b> | <b>72</b> | <b>0</b> |

Heavy solid curds. Very good Facepack material. A few off white curds, needs cutting every 3 days. Clean dark green leaf. Good curd cover.

|                |     |            |             |             |          |           |          |          |  |            |           |           |          |
|----------------|-----|------------|-------------|-------------|----------|-----------|----------|----------|--|------------|-----------|-----------|----------|
| Elsoms         | 116 | 1.3        | 8.3         | 12.3        | 11       | 87        | 5        | 8        |  | 952        | 0         | 27        | 0        |
| ISADORA        | 214 | 5.3        | 12.3        | 12.3        | 7        | 83        | 7        | 10       |  | 878        | 49        | 37        | 0        |
| <b>Average</b> |     | <b>3.3</b> | <b>10.3</b> | <b>12.3</b> | <b>9</b> | <b>85</b> | <b>6</b> | <b>9</b> |  | <b>915</b> | <b>25</b> | <b>32</b> | <b>0</b> |

Uniform. Easy to see, cut and bag. Clean leaf. Very Good Facepack material. Very few defects. Needs cutting every 3 days. High % Grade 1.

## TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house  | PLOT | CUTTING PERIOD |             |             | DAYS      | Class     | Class     | Unmkt     |  | Facepack    |             | Class 2   |           |
|---|------|----------------|-------------|-------------|-----------|-----------|-----------|-----------|--|-------------|-------------|-----------|-----------|
| VARIETY   |      | 10%            | 50%         | 90%         |           | 1         | 2         |           |  | Class 1     | Crates/Acre |           |           |
|   |      |                |             |             |           | %         | %         | %         |  | 8           | 6           | 16        | 12        |
| <b>Syngenta</b>   | 117  | 30.4           | 3.5         | 7.5         | 7         | 96        | 2         | 2         |  | 1054        | 0           | 11        | 0         |
| <b>SG 4732</b>  | 215  | 30.4           | 3.5         | 7.5         | 7         | 93        | 2         | 5         |  | 1018        | 0           | 10        | 0         |
| <b>Average</b>  |      | <b>30.4</b>    | <b>3.5</b>  | <b>7.5</b>  | <b>7</b>  | <b>94</b> | <b>2</b>  | <b>4</b>  |  | <b>1036</b> | <b>0</b>    | <b>11</b> | <b>0</b>  |
| Large frame. Strong midrib to leaf. Uniform. Lighter coloured inner leaf. Slightly crinkled leaf. Solid. Very good Facepack material. Very few defects. |      |                |             |             |           |           |           |           |  |             |             |           |           |
| <b>Elsoms</b>   | 118  | 12.3           | 22.3        | 26.3        | 14        | 88        | 8         | 4         |  | 922         | 59          | 44        | 0         |
| <b>TEMPEST</b>  | 216  | 16.3           | 22.3        | 26.3        | 10        | 92        | 5         | 3         |  | 1006        | 0           | 27        | 0         |
| <b>Average</b>  |      | <b>14.3</b>    | <b>22.3</b> | <b>26.3</b> | <b>12</b> | <b>90</b> | <b>6</b>  | <b>4</b>  |  | <b>964</b>  | <b>30</b>   | <b>36</b> | <b>0</b>  |
| Uniform. Good Facepack material. Medium depth. Looks good in tray. Very few defects. Easy to see, cut and pack.   |      |                |             |             |           |           |           |           |  |             |             |           |           |
| <b>Elsoms</b>   | 119  | 22.3           | 22.3        | 26.3        | 4         | 85        | 5         | 10        |  | 933         | 0           | 27        | 0         |
| <b>Invicta</b>  | 217  | 22.3           | 26.3        | 26.3        | 4         | 90        | 2         | 8         |  | 966         | 29          | 11        | 0         |
| <b>Average</b>  |      | <b>22.3</b>    | <b>24.3</b> | <b>26.3</b> | <b>4</b>  | <b>88</b> | <b>3</b>  | <b>9</b>  |  | <b>950</b>  | <b>15</b>   | <b>19</b> | <b>0</b>  |
| Very leafy frame. Loose leaves over curds. Paler inner leaf. Some large curds. Light weight curds. Uniform. Good Facepack material.                     |      |                |             |             |           |           |           |           |  |             |             |           |           |
| <b>Tozer</b>  | 120  | 16.4           | 23.4        | 26.4        | 10        | 74        | 7         | 19        |  | 674         | 180         | 29        | 13        |
| <b>2072</b>   | 218  | 16.4           | 19.4        | 30.4        | 14        | 74        | 12        | 14        |  | 791         | 29          | 44        | 29        |
| <b>Average</b>  |      | <b>16.4</b>    | <b>21.4</b> | <b>28.4</b> | <b>12</b> | <b>74</b> | <b>10</b> | <b>16</b> |  | <b>733</b>  | <b>105</b>  | <b>37</b> | <b>21</b> |
| Very leafy frame. Loose wrapper leaves. Medium/flattish curds. Wide base to curds making packing difficult. Some reasonable Facepack material.          |      |                |             |             |           |           |           |           |  |             |             |           |           |
| <b>Tozer</b>  | 121  | 26.3           | 29.3        | 2.4         | 7         | 88        | 3         | 9         |  | 952         | 24          | 18        | 0         |
| <b>2063</b>   | 219  | 29.3           | 2.4         | 6.4         | 8         | 78        | 5         | 17        |  | 859         | 0           | 20        | 13        |
| <b>Average</b>  |      | <b>27.3</b>    | <b>31.3</b> | <b>4.4</b>  | <b>7</b>  | <b>83</b> | <b>4</b>  | <b>13</b> |  | <b>906</b>  | <b>12</b>   | <b>19</b> | <b>7</b>  |
| Very good Facepack material. Uniform. Looks very good in tray. Easy to see, cut and bag. Very few defects. Dark green leaf. Leafy frame.                |      |                |             |             |           |           |           |           |  |             |             |           |           |
| <b>Monsanto</b>   | 122  | 6.2            | 23.2        | 27.3        | 21        | 86        | 4         | 10        |  | 944         | 0           | 22        | 0         |
| <b>RX 5702</b>  | 220  | 11.2           | 27.2        | 5.3         | 23        | 78        | 8         | 14        |  | 856         | 0           | 44        | 0         |
| <b>Average</b>  |      | <b>8.2</b>     | <b>25.2</b> | <b>1.3</b>  | <b>22</b> | <b>82</b> | <b>6</b>  | <b>12</b> |  | <b>900</b>  | <b>0</b>    | <b>33</b> | <b>0</b>  |
| Solid curds. Tight leaf over curds. Slightly crinkled leaf type. Uniform. Small/medium sized curds. Very good Facepack material. Few defects.           |      |                |             |             |           |           |           |           |  |             |             |           |           |

**TIME OF PLANTING AND SPACING TRIAL Winter Cauliflower 2011-12**

First transplanting of each variety 14th July 2011

Later transplanting 22nd July 2011 (higher plot number)

8785 plants/acre

| Seed house      | PLOT | CUTTING PERIOD |            |            | DAYS      | Class     |           | Unmkt    | Facepack   | Class 2  |             |          |
|-----------------|------|----------------|------------|------------|-----------|-----------|-----------|----------|------------|----------|-------------|----------|
|                 |      | 10%            | 50%        | 90%        |           | 1         | 2         |          |            | Class 1  | Crates/Acre | 16       |
| VARIETY         |      |                |            |            |           | %         | %         | %        | 8          | 6        | 16          | 12       |
| <b>Monsanto</b> | 123  | 20.2           | 1.3        | 5.3        | 14        | 82        | 15        | 3        | 896        | 0        | 82          | 0        |
| <b>TREWINT</b>  | 221  | 27.2           | 1.3        | 5.3        | 7         | 72        | 17        | 11       | 787        | 0        | 92          | 0        |
| <b>Average</b>  |      | <b>23.2</b>    | <b>1.3</b> | <b>5.3</b> | <b>11</b> | <b>77</b> | <b>16</b> | <b>7</b> | <b>842</b> | <b>0</b> | <b>87</b>   | <b>0</b> |

Slightly crinkled leaf type. Tight leaf over curds. Good Facepack material. Needs cutting every 3 days or will turn off white. Uniform. Medium weight.

|                 |     |             |             |            |           |           |          |           |            |          |           |          |
|-----------------|-----|-------------|-------------|------------|-----------|-----------|----------|-----------|------------|----------|-----------|----------|
| <b>Monsanto</b> | 124 | 9.1         | 26.1        | 6.2        | 28        | 76        | 4        | 20        | 835        | 0        | 22        | 0        |
| <b>RX 5738</b>  | 222 | 19.1        | 26.1        | 11.2       | 23        | 80        | 6        | 14        | 878        | 0        | 22        | 0        |
| <b>Average</b>  |     | <b>14.1</b> | <b>26.1</b> | <b>8.2</b> | <b>26</b> | <b>78</b> | <b>5</b> | <b>17</b> | <b>857</b> | <b>0</b> | <b>28</b> | <b>0</b> |

Good curd protection. Solid curds. Very good Facepack material. A few small plants/curds. Looks good in tray. Easy to see, cut and bag.

|                 |     |             |            |            |          |           |          |          |            |           |           |          |
|-----------------|-----|-------------|------------|------------|----------|-----------|----------|----------|------------|-----------|-----------|----------|
| <b>Syngenta</b> | 125 | 29.3        | 2.4        | 6.4        | 8        | 86        | 3        | 11       | 885        | 81        | 15        | 0        |
| <b>SGC 4717</b> | 223 | 29.3        | 2.4        | 6.4        | 8        | 93        | 2        | 5        | 976        | 65        | 12        | 0        |
| <b>Average</b>  |     | <b>29.3</b> | <b>2.4</b> | <b>6.4</b> | <b>8</b> | <b>90</b> | <b>2</b> | <b>8</b> | <b>931</b> | <b>73</b> | <b>13</b> | <b>0</b> |

Slightly twisted frame. Uniform. Very good Facepack material. Very few defects. Medium depth. Solid curds. Good cover.