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2020-21

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Project leader: Bill Herring, Duchy College

Report: Final Report 2020 - 21

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Key staff: Bill Herring, Duchy College

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.

[Name] Bill Herring

[Position] Team Lead/ Trials Coordinator

[Organisation] Duchy College

Signature Bill Herring Date

Signature..... Date

Signature Date

Report authorised by:

Signature Date

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GROWER SUMMARY

Headline

The weather pattern from transplanting in July through to the end of December played a significant part in the production of Cauliflower planned to harvest from late October through to March. Cauliflower varieties were transplanted on the 16th and 23rd July 2020 into favorable conditions enabling very good establishment.

- Autumn varieties produced a high % cut out many above the planned benchmark of 75 - 80%.
- Early Winter varieties yielded up to 10% more than an average season.
- Late Winter varieties maintaining high yields enabled growers to harvest until Mid-May to reduce imports to cover the early Summer period.

Background

Duchy College working in partnership with eight national seed houses and local growers have carried out the evaluation of commercially available autumn, winter cauliflower and spring greens cultivars over the past 24 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, to compare yields and quality of produce.

With improved uniformity, disease resistance, and curd protection the need to compare with current cultivars is even more important, in order to plan the production of the crop to meet changing market requirements and provide the best returns to the grower.

Summary

Overview

Brassica Variety Trials of Autumn Cauliflower, Winter Cauliflower, Late Winter Cauliflower and Spring Greens were conducted at Trevarnon Farm, Gwithian, Cornwall in 2020/21.

Methodology is detailed for each crop type.

Autumn cauliflower variety trial 2020

Methods - autumn cauliflower

8 varieties of autumn cauliflower were transplanted on the 16th and 23rd July 2020.

Planting density 25,315/Ha (10,249/Acre). 4 row plots with centre rows recorded.

Transplanted into good ground conditions.

Harvested and graded in October/November 2020.

Results and discussion - autumn cauliflower

Table of results in order from early October to the middle of November. (Individual plot details in the appendix)

Seed house	Variety	Average 50% cut date	% Class 1	Crates/Ha size 8	Crates/Ha Size 6
Elsoms	Skywalker	18.10.20	81	2279	380
Sakata	Jericho	20.10.20	86	1487	1645
Sakata	Denton	27.10.20	77	1615	1097
Sakata	CAU 03105	30.10.20	86	1613	1477
Sakata	Amandine	02.11.20	84	1361	1729
Rijk Zwaan	Milandes	05.11.20	76	1455	1265
Bayer	AC 3332	05.11.20	85	1487	1487
Bayer	SV 5965	03.11.19	86	1773	1267

Winter cauliflower variety trial 2020-21

Methods - winter cauliflower

40 varieties from 7 seed houses were transplanted on 16 and 23 July 2020.

Planting density 21,192/Ha (8,540/Acre).

Transplanted into good ground conditions resulting in very good establishment.

Harvested October 2020 – March 2021.



**Winter cauliflower plots
20.09.20**

Results and discussion - winter cauliflower

The autumn weather patterns enabled a good frame for most varieties, resulting in high yields in November and December although some varieties were up to 7 days later than normal. Many of these varieties being 10% above average yields. The milder weather from mid-February 2021 led to some varieties becoming loose in February and March. Generally, yields and quality were above average for this marketing window. Varieties normally planned for harvest in late March/April headed were ready to harvest 10 – 14 days earlier than a normal season.

Seed house	Variety	Average 50% cut date	% Class 1	Crates/Ha size 8	Crates/Ha Size 6
Clause	Merinos	29.10.20	79	1541	721
Rijk Zwaan	Tramont	05.11.20	83	1326	1163
Bayer	5982	11.11.20	86	2119	212
Clause	33917	11.11.20	85	1800	600
Syngenta	Kashen	11.11.20	80	1669	600
Elsoms	3338	16.11.20	81	1985	212
Bayer	Sassolung	19.11.20	78	1986	106
Clause	Diwan	28.11.20	86	1906	494
Syngenta	5086	05.12.20	85	2252	0
Syngenta	4040	14.12.20	81	2055	106
Clause	Jeroboam	22.12.20	79	1927	215
Elsoms	Paciano	22.12.20	75	1874	143
Syngenta	Alpen	05.01.21	74	1934	37
Clause	Brick	30.01.21	72	1907	0
Vilmorin	Trevaskis	30.01.21	79	2094	0
Bayer	Carantic	03.02.21	71	1880	0
Syngenta	5092	12.02.21	73	1934	0
Syngenta	Clemen	20.02.21	81	2151	0
Clause	Mengwenn	22.02.21	80	2109	0
Clause	33033	22.02.21	80	2141	0
Vilmorin	Carbis	13.03.21	83	2198	0
Elsoms	Almeria	13.03.21	80	2067	69
Vilmorin	Vedis	13.03.21	76	1934	106
Elsoms	Tempest	15.03.21	78	2067	0
Syngenta	Dragen	16.03.21	78	2040	37
Elsoms	Vogue	30.03.21	84	1882	459

Late winter cauliflower variety trial 2020-21

Eight varieties from four seed houses were transplanted on 16 and 23 July 2020

Planting density 21,192/Ha (8,580/Acre).

Harvested March to Late May 2021.

Results and discussion – Late winter cauliflower

Table of results in order from early October to the middle of November. (Individual plot details in the appendix).

Seed house	Variety	Average 50% cut date	% Class 1	Crates/Ha size 8	Crates/Ha Size 6
Elsoms	Nomad	12.04.21	78	1882	250
Elsoms	Douglas	12.04.21	79	1326	1025
Elsoms	Chester	12.04.21	67	980	1060
Elsoms	3030	22.04.21	76	1882	178
Hazera	Tostakis	26.04.21	78	1882	247
Clause	Aureo	26.04.21	75	1803	247
Elsoms	Fletcher	27.04.21	70	1724	178
Vilmorin	Arletis	05.05.21	79	1803	390
Elsoms	Cartagena	10.05.21	64	1590	141



Spring Greens Variety Trial

Five varieties from three seed houses were transplanted from module raised plants 14.09.2020 into good conditions.

5 row beds 50cms between rows and 20cms in the rows, giving a planting density of 76,570 /Ha (31,000/Acre)

Harvested on 18.02.2021

SeedHouse /Cultivar	Comment	Pack out Yield Trays
		(10 bags x 550g)
Monsanto Winter Supreme	Very uniform. Very good greens. 94% crop marketed. Compact.	2,544 trays/Hectare (1,030 trays/Acre)
A. L. Tozer Wintergreen	Variable sized greens. Variation in colour. Long internodes. Only 62% ready to harvest. A lot of small greens.	1,346 trays/Hectare (545 trays/Acre)
Nickerson Kempsey	Uniform. 74% crop marketed. Good Greens. Easy to pack. Some small plants.	1,731 trays/Hectare (701 trays/Acre)
Monsanto Winter Special	Very uniform. Very good greens. Dark green. Short nodes. 96% of crop marketed. Good weight.	2,301 trays/Hectare (932 trays/Acre)



**Spring Greens Variety Trial
11.10.2020**

Autumn cauliflower over-year averages

The influence of growing conditions and weather patterns impacts growth, harvesting periods and quality of product, therefore averages of performance over several seasons provides a more accurate guide to assist in crop planning and projected yields.

AUTUMN CAULIFLOWER						AVERAGE YIELDS OF GRADE 1 CURDS						OCTOBER		
10249 plants/Acre						10249 plants/Acre								
SEEDHOUSE	ELSOMS					SEEDHOUSE	SAKATA							
VARIETY	SKYWALKER					VARIETY	DENTON							
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1			
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable			
					Heads						Heads			
2020	16th July	13th Oct	89	86	8818	2020	16th July	20th Oct	96	80	8202			
2019	15th July	4th Oct	81	90	9220	2019	15th July	9th Oct	86	92	9424			
2018	16th July	19th Oct	95	90	9222	2018	16th July	15th Oct	91	92	9226			
3 yr Average	15th July	11th Oct	88	89	9086	3 yr Average	15th July	14th Oct	91	88	8951			
10249 plants/Acre						8580 plants/Acre								
SEEDHOUSE	SAKATA					SEEDHOUSE	SYNGENTA							
VARIETY	JERICHO					VARIETY	KOTEN							
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1			
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable			
					Heads						Heads			
2020	16th July	20th Oct	96	84	8608	2020	16th July	27th Oct	103	76	6521			
2019	15th July	9th Oct	86	96	9832	2019	15th July	14th Oct	91	94	8064			
2018	16th July	17th Oct	93	96	9844									
2017	14th July	23rd Oct	101	74	7584									
2016	12th July	17th Oct	97	90	9226									
2015	9th July	13th Oct	96	88	9022									
6yr Average	14th July	17th Oct	95	88	9019	2yr Average	15th July	20th Oct	97	85	7293			

		AUTUMN CAULIFLOWER				AVERAGE YIELDS OF GRADE 1 CURDS				LATE OCTOBER			
10249 plants/Acre						10249 plants/Acre							
SEEDHOUSE		SAKATA				SEEDHOUSE		RIJK ZWAAN					
VARIETY		AMANDINE				VARIETY		MILANDES (26-462)					
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1		
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable		
					Heads						Heads		
2020	16th July	2nd Nov	109	82	8406	2020	23rd July	5th Nov	105	76	7784		
2019	15th July	14th Oct	91	92	9424	2019	15th July	14th Oct	91	88	9012		
2018	16th July	22nd Oct	98	89	9108	2018	16th July	29th Oct	105	88	9018		
2017	14th July	23rd Oct	101	84	8608	2016	14th July	12th Oct	90	86	8812		
2016	21st July	17th Oct	97	90	9310								
2015	9th July	13th Oct	96	84	8606								
2014	10th July	24th Oct	106	91	9374								
7yr Average	14th July	21st Oct	100	87	8976	4 yr Average	17th July	21st Oct	98	85	8656		
8580 plants/Acre						8580 plants/Acre							
SEEDHOUSE		ENZA ZADEN				SEEDHOUSE		BAYER					
VARIETY		ANIQUE				VARIETY		5982					
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1		
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable		
					Heads						Heads		
						2020	16th July	9th Nov	116	78	6692		
2020	16th July	23rd Oct	99	84	7207	2019	15th July	6th Nov	108	86	7372		
2019	15th July	14th Oct	91	88	7550	2018	16th July	8th Nov	115	88	7512		
2018	16th July	29th Oct	105	90	7720	2017	14th July	30th Oct	108	88	7209		
2017	14th July	22nd Oct	100	92	7890	2016	12th July	31st Oct	101	92	7546		
2016	21st July	7th Nov	109	94	8232	2015	9th July	29th Oct	112	97	8061		
2015	9th July	19th Oct	101	87	7436	2014	10th July	16th Oct	98	90	7444		
			High % of Large curds				2013	10th July	4th Nov	117	68	4390	
6yr Average	15th July	24th Oct	101	89	7673	8 yr Average	13th July	30th Oct	109	87	7028		

Winter Cauliflower over-year averages

The influence of growing conditions and weather patterns impacts growth, harvesting periods and quality of product, therefore averages of performance over several seasons provides a more accurate guide to assist in crop planning and projected yields. 21,192/Ha (8,580/Acre).

Winter Cauliflower						AVERAGE YIELDS OF GRADE 1 CURDS						NOV/DECEMBER		
10249 plants/Acre						8580 plants/Acre								
SEEDHOUSE	BAYER					SEEDHOUSE	VARIETY					CLAUSE		
VARIETY	5965											DIWAN		
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1	Class 1		
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable	Heads		
					Heads							Heads		
2020 - 21	16th July	27th Oct	103	88	9022	2020 - 21	16th July	9th Nov	116	92	7890			
2019 - 20	15th July	25th Oct	102	84	8614	2019 - 20	15th July	6th Nov	108	88	7546			
2018 - 19	16th July	5th Nov	112	88	8858	2018 - 19	16th July	15th Nov	118	88	7546			
2017 - 18	14th July	23rd Oct	101	78	7972	2017 - 18	14th July	6th Nov	115	78	6690			
2016 - 17	21st July	14th Nov	116	84	9226	2016 - 17	12th July	27th Oct	107	85	7258			
2014 - 15	10th July	24th Oct	106	74	6484	2015 - 16	9th July	29th Oct	112	88	7500			
2012 - 13	19th July	10th Nov	114	90	9220	2014 - 15	10th July	13th Oct	95	76	6526			
2013 - 14	10th July	10th Nov	114	90	9220	2013 - 14	10th July	8th Nov	121	50	3776			
7 yr Average	16th July	2nd Nov	108	84	8485	8 yr Average	13th July	2nd Nov	111	79	6841			
8580 plants/Acre						8580 plants/Acre								
SEEDHOUSE	CLAUSE					SEEDHOUSE	SEEDHOUSE					ELSOMS		
VARIETY	TRIOMPHANT					VARIETY	VARIETY					PACIANO		
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1	Class 1		
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable	Heads		
					Heads							Heads		
2020 - 21	16th July	7th Dec	144	78	6520	2020 - 21	16th July	21st Dec	158	81	6994			
2019 - 20	15th July	19th Dec	157	82	7040	2019 - 20	15th July	2nd Jan	171	72	6184			
2018 - 19	16th July	17th Dec	154	90	7720	2018 - 19	16th July	3rd Jan	171	68	5832			
2017 - 18	14th July	27th Nov	136	58	4936	2017 - 18	14th July	27th Dec	166	60	5152			
2016 - 17	12th July	27th Dec	159	88	7504	2016 - 17	12th July	31st Dec	172	94	8064			
2015 - 16	9th July	12th Nov	126	90	7722	2015 - 16	9th July	30th Nov	144	47	4000			
2014 - 15	10th July	3rd Nov	116	66	5662	2014 - 15	10th July	27th Nov	140	20	1712			
2013 - 14	10th July	13th Dec	156	40	3944	2013 - 14	10th July	6th Jan	180	60	4560			
8 yr Average	13th July	2nd Dec	143	73	6361	8 yr Average	13th July	23rd Dec	163	63	5312			

		Winter Cauliflower					AVERAGE YIELDS OF GRADE 1 CURDS							DEC /JANUARY		
8580 plants/Acre							8580 plants/Acre									
SEEDHOUSE		CLAUSE					SEEDHOUSE		ELSOMS							
VARIETY		JEROBOAM (CLX 33422)					VARIETY		BATERNO							
	Planting	50%	Days	%	Class 1			Planting	50%	Days	%	Class 1				
	Date	cut date		Class 1	Marketable			Date	cut date		Class 1	Marketable				
					Heads							Heads				
2020 - 21	16th July	21st Dec	158	82	7006		2020 - 21	16th July	23rd Dec	160	74	6352				
2019 - 20	15th July	9th Jan	178	74	6350		2019 - 20	15th July	9th Jan	178	78	6690				
2018 - 19	16th July	31st Dec	168	72	6176		2018 - 19	16th July	10th Jan	178	54	4632				
2017 - 18	14th July	20th Dec	159	63	5360		2017 - 18	14th July	27th Dec	166	58	4960				
2016 - 17	12th July	9th Jan	172	82	7048		2016 - 17	12th July	23rd Jan	195	80	6864				
2015 - 16	9th July	30th Nov	144	67	5720		2015 - 16	9th July	4th Dec	148	62	5336				
2014 - 15	18th July	22nd Dec	157	78	6696											
7 yr Average	14th July	23rd Dec	162	74	6636		6 yr Average	14th July	1st Jan	171	62	5806				
8580 plants/Acre							8580 plants/Acre									
SEEDHOUSE		SYNGENTA					SEEDHOUSE		SYNGENTA							
VARIETY		ALPEN					VARIETY		5064							
	Planting	50%	Days	%	Class 1			Planting	50%	Days	%	Class 1				
	Date	cut date		Class 1	Marketable			Date	cut date		Class 1	Marketable				
					Heads							Heads				
2020 - 21	16th July	23rd Dec	160	76	6526		2020 - 21	16th July	18th Jan	186	56	4808				
2019 - 20	15th July	9th Jan	178	74	6352		2019 - 20	15th July	Not in Trials							
2018 - 19	16th July	24th Jan	192	73	6256		2018 - 19	16th July	17th Jan	185	64	5488				
2017 - 18	14th July	2nd Jan	172	73	6296		2017 - 18	Not in Trials								
2016 - 17	12th July	Not in Trials					2016 - 17	12th July	26th Jan	198	82	7032				
2015 - 16	9th July	Not in Trials					Good Facepack. Dark green leaf.									
2014 - 15	10th July	11th Jan	185	76	6520											
2013 - 14	10th July	9th Jan	183	45	3864											
6 yr Average	14th July	8th Jan	178	70	5969		3 yr Average	14th July	20th Jan	190	67	5776				

Winter Cauliflower						AVERAGE YIELDS OF GRADE 1 CURDS						JAN/FEBRUARY					
8580 plants/Acre						8580 plants/Acre						8580 plants/Acre					
SEEDHOUSE		HAZERA				SEEDHOUSE		BAYER				SEEDHOUSE		BAYER			
VARIETY		TREVASKIS				VARIETY		5697				VARIETY		5697			
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable
					Heads						Heads						Heads
2020 - 21	16th July	28th Jan	196	84	7208												
2019 - 20	15th July	30th Jan	199	78	6694		2020 - 21	16th July	28th Jan	196	64	5488					
2018 - 19	16th July	31st Jan	199	64	5488		2019 - 20	15th July	6th Feb	206	82	7038					
2017 - 18	14th July	18th Jan	188	78	6656		2018 - 19	16th July	7th Feb	206	80	6864					
2016 - 17	12th July	3rd Feb	206	92	7892		2017 - 18	14th July	19th Feb	220	72	6224					
2015 - 16	9th July	24th Dec	168	60	5144		2016 - 17	12th July	31st Jan	203	90	7720					
2014 - 15	10th July	15th Jan	190	88	7624		2015 - 16	9th July	21st Dec	165	72	6216					
2013 - 14	10th July	7th Feb	212	78	6686		2014 - 15	10th July	16th Jan	190	72	6176					
8 yr							7 yr Average										
Average	13th July	24th Jan	195	78	6674		13th July	27th Jan	198	76	6532						
8580 plants/Acre						8580 plants/Acre						8580 plants/Acre					
SEEDHOUSE		CLAUSE				SEEDHOUSE		BAYER				SEEDHOUSE		BAYER			
VARIETY		BRICK				VARIETY		CARANTIC				VARIETY		CARANTIC			
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable
					Heads						Heads						Heads
2020 - 21	16th July	28th Jan	196	72	6176		2020 - 21	16th July	1st Feb	200	78	6688					
2019 - 20	15th July	6th Feb	206	74	6350		2019 - 20	15th July	12th Feb	212	78	6694					
2018 - 19	16th July	31st Jan	199	50	4288		2018 - 19	16th July	14th Feb	213	84	7208					
2017 - 18	14th July	15th Jan	185	68	5792		2017 - 18	14th July	29th Jan	199	85	7296					
2016 - 17	12th July	3rd Feb	206	74	6348		2016 - 17	12th July	20th Feb	223	90	7720					
2015 - 16	9th July	17th Dec	161	38	3288		2015 - 16	9th July	4th Jan	179	47	4008					
2014 - 15	10th July	23rd Feb	228	89	7620		2014 - 15	10th July	15th Jan	189	74	6352					
2013 - 14	10th July	24th Feb	229	75	6432		2013 - 14	10th July	25th Feb	230	80	6864					
8 yr							8 yr Average										
Average	13th July	29th Jan	201	68	5786		13th July	3rd Feb	206	77	6603						

Winter Cauliflower AVERAGE YIELDS OF GRADE 1 CURDS						FEB/MARCH					
8580 plants/Acre						8580 plants/Acre					
SEEDHOUSE		ELSOMS				SEEDHOUSE		CLAUSE			
VARIETY		LANNION (3028)				VARIETY		REDOUTABLE			
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable
					Heads						Heads
2020 - 21	16th July	1st Feb	200	58	4976	2019-20	Not in Trials				Heads
2019 - 20	15th July	18th Feb	218	76	6478	2018 - 19	16th July	12th Feb	211	66	5664
2018 - 19	16th July	7th Feb	206	84	7208	2017 - 18	14th July	Not in Trials			
2017 - 18	14th July	23rd Jan	193	76	6520	2016 - 17	12th July	6th Feb	209	88	7552
						2015 - 16	9th July	28th Dec	175	38	3264
						2014 - 15	10th July	2nd Mar	235	96	8236
						2013 - 14	10th July	24th Feb	229	60	5152
						2012 - 13	19th July	7th Feb	203	62	5320
4 yr Average	15th July	3rd Feb	204	74	6296	6 yr Average	13th July	8th Feb	210	68	5865
8580 plants/Acre						2015-16 some loose curds					
SEEDHOUSE		CLAUSE				SEEDHOUSE	CLAUSE				
VARIETY		MENGWENN (33611)				VARIETY	33033	(CHF 16-6058)			
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable
					Heads						Heads
2020 - 21	16th July	22nd Feb	221	80	6832	2020 - 21	16th July	22nd Feb	225	80	6864
2019 - 20	15th July	12th Feb	212	76	6518						
2018 - 19	16th July	25th Feb	224	88	7552						
2017 - 18	14th July	12th Feb	213	86	7352						
2016 - 17	12th July	20th Feb	223	88	7552						
5 yr Average	14th July	18th Feb	219	84	7161	1 season	16th July	22nd Feb	225	80	6864

Winter Cauliflower						AVERAGE YIELDS OF GRADE 1 CURDS						MARCH					
8580 plants/Acre						8580 plants/Acre						8580 plants/Acre					
SEEDHOUSE		SYNGENTA				SEEDHOUSE		VILMORIN				SEEDHOUSE		VILMORIN			
VARIETY		CLEMEN				VARIETY		PAROTIS (AE 9307)				VARIETY		PAROTIS (AE 9307)			
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable
					Heads						Heads						Heads
2020 - 21	16th July	15th Feb	218	84	7240	2020 - 21	16th July	25th Feb	224			2020 - 21	16th July	25th Feb	224		
2019 - 20	15th July	12th Feb	212	78	6696	2019 - 20	15th July	10th Mar	238	82	7038	2019 - 20	15th July	10th Mar	238	82	7038
2018 - 19	16th July	20th Feb	219	88	7544	2018 - 19	16th July	12th Feb	201	74	6352	2018 - 19	16th July	12th Feb	201	74	6352
2017 - 18	14th July	14th Mar	243	90	7720	2017 - 18	14th July	28th Feb	229	65	5528	2017 - 18	14th July	28th Feb	229	65	5528
2015 - 16	9th July	15th Feb	221	82	7072	2016 - 17	12th July	13th Mar	244	92	7896	2016 - 17	12th July	13th Mar	244	92	7896
2014 - 15	10th July	22nd Mar	255	92	7893	2015 - 16	9th July	1st Feb	207	13	1072	2015 - 16	9th July	1st Feb	207	13	1072
2013 - 14	10th July	6th Mar	239	80	6862	2014 - 15	18th July	23rd Mar	248	96	8234	2014 - 15	18th July	23rd Mar	248	96	8234
2012 - 13	10th July	4th Mar	237	92	8040	2013 - 14	19th July	24th Mar	248	83	7072	2013 - 14	19th July	24th Mar	248	83	7072
8 yr Average	13th July	1st Mar	231	86	7383	8 yr Average	15th July	2nd Mar	230	72	6170	8 yr Average	15th July	2nd Mar	230	72	6170
						2015-16	Loose off white curds										
8580 plants/Acre						8580 plants/Acre						8580 plants/Acre					
SEEDHOUSE		CLAUDE				SEEDHOUSE		ELSOMS				SEEDHOUSE		ELSOMS			
VARIETY		MASCARET				VARIETY		ISADORA				VARIETY		ISADORA			
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable
					Heads						Heads						Heads
2019 - 20	Not in Trial					2020 - 21	16th July	1st Mar	228	68	5832	2020 - 21	16th July	1st Mar	228	68	5832
2018 - 19	16th July	28th Feb	227	78	6688	2019 - 20	15th July	3rd Mar	231	87	7928	2019 - 20	15th July	3rd Mar	231	87	7928
2017 - 18	14th July	19th Mar	248	83	7152	2018 - 19	16th July	28th Feb	227	78	6688	2018 - 19	16th July	28th Feb	227	78	6688
2016 - 17	12th July	23rd Feb	226	96	8232	2017 - 18	14th July	19th Mar	248	42	3624	2017 - 18	14th July	19th Mar	248	42	3624
2015 - 16	16th July	8th Feb	207	23	1928	2016 - 17	12th July	27th Feb	230	78	6696	2016 - 17	12th July	27th Feb	230	78	6696
2014 - 15	10th July	20th Mar	253	84	7218												
2013 - 14	19th July	17th Mar	241	88	7503												
6 yr Average	15th July	6th Mar	234	75	6453	2 yr Average	15th July	5th Mar	233	71	6154	2 yr Average	15th July	5th Mar	233	71	6154
2015-16 Loose off white curds						2017 - 18	22% frosted										

		Winter Cauliflower	AVERAGE YIELDS OF GRADE 1 CURDS						MARCH		
8580 plants/Acre											
SEEDHOUSE	SYNGENTA										
VARIETY	DARIFEN										
	Planting	50%	Days	%	Class 1						
	Date	cut date		Class 1	Marketable						
					Heads						
2020 - 21	16th July	8th Mar	235	68	5832	2020 - 21	16th July	15th Mar	242	80	6864
						2019 - 20	15th July	10th Mar	238	90	7722
						2018 - 19	16th July	14th Mar	241	90	7696
1 season	16th July	8th Mar	235	68	5832	3 yr Average	16th July	13th Mar	240	87	7427
8580 plants/Acre											
SEEDHOUSE	SYNGENTA										
VARIETY	DRAGEN										
	Planting	50%	Days	%	Class 1						
	Date	cut date		Class 1	Marketable						
					Heads						
2020 - 21	16th July	15th Mar	242	80	6864	2020 - 21	16th July	15th Mar	242	78	6696
						2019 - 20	15th July	10th Mar	238	80	6860
						2018 - 19	16th July	14th Mar	241	78	6688
						2017 - 18	14th July	2nd Apr	262	78	6648
						2016 - 17	12th July	8th Mar	239	90	7720
1 season	16th July	15th Mar	242	80	6864	5 yr Average	15th July	16th Mar	244	81	6922

		Winter Cauliflower				AVERAGE YIELDS OF GRADE 1 CURDS						MARCH/APRIL	
8580 plants/Acre						8580 plants/Acre							
SEEDHOUSE	VILMORIN					SEEDHOUSE	ELSOMS						
VARIETY	VEDIS					VARIETY	ALMERIA	3029					
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1		
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable		
					Heads						Heads		
2020 - 21	16th July	15th Mar	242	70	6006	2020 - 21	16th July	15th Mar	242	80	6864		
2019 - 20	15th July	10th Mar	238	76	6520	2019 - 20	15th July	10th Mar	238	90	7722		
2018 - 19	16th July	18th Mar	245	86	7376	2018 - 19	16th July	14th Mar	241	90	7696		
2017 - 18	14th July	2nd Apr	262	82	7070	2017 - 18	14th July	9th April	269	70	6019		
4 yr Average	15th July	19th Mar	247	79	6743	4 yr Average	15th July	20th Mar	248	83	7075		
8580 plants/Acre						8580 plants/Acre							
SEEDHOUSE	VILMORIN					SEEDHOUSE	ELSOMS						
VARIETY	CARBIS (AK2706)					VARIETY	VOGUE						
	Planting	50%	Days	%	Class 1		Planting	50%	Days	%	Class 1		
	Date	cut date		Class 1	Marketable		Date	cut date		Class 1	Marketable		
					Heads						Heads		
2020 - 21	16th July	15th Mar	242	78	6696	2020 - 21	16th July	29th Mar	256	82	7020		
2019 - 20	15th July	20th Mar	248	80	6868	2019 - 20	15th July	26th Mar	254	84	7210		
2018 - 19	16th July	14th Mar	241	79	6748	2018 - 19	16th July	Not in Trials					
2017 - 18	14th July	9th Apr	269	78	6650	2017 - 18	14th July	9th Apr	269	78	6688		
						2016 - 17	12th July	29th Mar	260	87	7440		
4 yr Average	16th July	23rd Mar	250	79	6741	4 yr Average	14th July	31st Mar	260	83	7089		

Appendix

**Winter Cauliflower Variety Trial 2020 – 21 (34" x 21")
8580/Acre (21192/Ha) Transplanted 16th July 2020**

Plot	Seed House	Variety	Heading Period
1 *	Rijk Zwaan	Tramont (26-407)	Early November
2	Clause	Merinos	Early November
3	Elsoms	Telde	Early November
4	Bayer/Monsanto	SV5892AC	Mid November
5	Clause	HMC33917 (16-5006)	Mid November
6	Syngenta	Kashen (SGC4049)	Mid November
7	Clause	Diwan	Mid/late November
8	Elsoms	Maginot	Late Nov/Early Dec
8A	Elsoms	Belot	Early December
9	Syngenta	SGC 4044	Late Nov/Early Dec
10	Bayer/Monsanto	Sassolungo	Late Nov/Early Dec
11	Elsoms	Bejo 3338	Early December
12	Clause	Triomphant	Mid December
13	Syngenta	SGC5073	Mid December
14	Clause	Jeroboam	Late December
15	Elsoms	Paciano	Early January
16	Elsoms	Baterno	Mid January
17	Syngenta	SGC5086	Mid/Late January
18	Bayer/Monsanto	SV5697AC	Late January
19	Syngenta	Amonen (SGC5064)	Late January
20	Clause	Brick	Late January
21	Elsoms	Medaillon	Late Jan/Early Feb
22	Vilmorin	Trevaskis	Early February
23	Syngenta	SGC5092	Mid February
24	Clause	HMC33020(CHF 16-620)	Mid February
25	Bayer/Monsanto	Carantic	Late February
26	Elsoms	Gerona	Late February
27	Elsoms	Lannion (3028)	Late February
28	Clause	Mengwenn	Late February
29	Clause	HMC33033 (CHF 16-6058)	Late February
30	Hazera/Vilmorin	AL7722	Late February
31	Syngenta	Darifen	Early March
32	Vilmorin	Parotis	Early March
33	Clause	CLX33726	Early March

Plot	Seed House	Variety	Heading Period
34	Elsoms	Isadora	Mid/End March
35	Syngenta	Dragen (SGC5033)	Mid March
36	Vilmorin	Carbis (AK2706)	Late March
37	Elsoms	Almeria (3029)	Late March
38	Vilmorin	Vedis	Late March
39	Elsoms	Vogue	Late March/April

Winter Confidential Plots Enza 4 row plots

40	NL2007.38221	ANIQUE
41	NL2011.10598	DIWAN
42	NL2017.122368	728
43	NL2018.124621	
44	CFNL19.144888	
45	CFNL19.144890	
46	CFNL19.144893	
47	CFNL19.144894	
48	CFNL19.144903	
49	CFNL19.144906	
50	CFNL19.144911	

Vilmorin Confidential 29 single Lines Plots V1 – V29

Vilmorin Confidential	Adaption Lines	Single lines	Plots 68 – 71
68	A0 8131		
69	AO8132		
70	AO8264		
71	AP5462		

Clause Confidential Single lines Silver pack 39 single lines Plots 72 – 110

**Clause Confidential Adaption lines Plots 111- 128 Single row 40 plants
(Plots 127 and 128 two short rows)**

**Late Winter Cauliflower Variety Trial 2020-21 (34" x 21")
8580/Acre (21192/Ha) Transplanted 16th July 2020**

Plot	Seed House	Variety	Heading Period
129	Elsoms	Nomad	Early/Mid April
130	Elsoms	Bejo 3030	Early April
131	Hazera/Vilmorin	Tostakis	Mid April
132	Elsoms	Douglas	Late April
133	Clause	Aureo (CLX33612)	Late April
134	Elsoms	Chester	Late April/May
135	Vilmorin	Arletis	April/May
136	Elsoms	Fletcher	Late May
137	Elsoms	Cartagena	Mid May
138	Elsoms	Seth	Mid May

**Autumn Cauliflower Variety Trial 2020
102419/Acre (25315/Ha) Transplanted 16th July 2020**

Plot	Seed House	Variety	Heading Period
139	Sakata	Jericho	Mid October
140	Bayer/Monsanto	SVAC3332	Mid October
141	Sakata	Amandine	Mid/Late October
142	Sakata	Denton	Mid/Late October
143	Bayer/Monsanto	SV5965AC	Late October
144*	Rijk Zwaan	Milandes	Late October
145	Sakata	CAU 03105	Late October
146	Elsoms	Skywalker	Late Oct/Early Nov
147	Elsoms	Tempest	Late March

Enza Confidential Single lines 24 lines Plots 148 – 171

Second Planting

Autumn Cauliflower Variety Trial 2020

102419/Acre (25315/Ha) Transplanted 16th July 2020

Plot	Seed House	Variety	Heading Period
172	Sakata	Jericho	Mid October
173	Bayer/Monsanto	SVAC3332	Mid October
174	Sakata	Amandine	Mid/Late October
175	Sakata	Denton	Mid/Late October
176	Bayer/Monsanto	SV5965AC	Late October
177*	Rijk Zwaan	Milandes	Late October
178	Sakata	CAU 03105	Late October
179	Elsoms	Skywalker	Late Oct/Early Nov
180	Elsoms	Tempest	Late March

Winter Cauliflower Variety Trial 2020 – 21 (34" x 21")

8580/Acre (21192/Ha) Transplanted 16th July 2020

Plot	Seed House	Variety	Heading Period
181*	Rijk Zwaan	Tramont (26-407)	Early November
182	Clause	Merinos	Early November
183	Elsoms	Telde	Early November
184	Bayer/Monsanto	SV5892AC	Mid November
185	Clause	HMC33917 (16-5006)	Mid November
186	Syngenta	Kashen (SGC4049)	Mid November
187	Clause	Diwan	Mid/late November
188	Elsoms	Maginot	Late Nov/Early Dec
189	Syngenta	SGC 4044	Late Nov/Early Dec
190	Bayer/Monsanto	Sassolungo	Late Nov/Early Dec
191	Elsoms	Bejo 3338	Early December
192	Clause	Triumphant	Mid December
193	Syngenta	SGC5073	Mid December
194	Clause	Jeroboam	Late December
195	Elsoms	Paciano	Early January
196	Elsoms	Baterno	Mid January
197	Syngenta	SGC5086	Mid/Late January

198	Bayer/Monsanto	SV5697AC	Late January
199	Syngenta	Amonen (SGC5064)	Late January
200	Clause	Brick	Late January
201	Elsoms	Medaillon	Late Jan/Early Feb
202	Vilmorin	Trevaskis	Early February
203	Syngenta	SGC5092	Mid February
204	Clause	HMC33033 (CHF 16-620)	Mid February
205	Bayer/Monsanto	Carantic	Late February
206	Elsoms	Gerona	Late February
207	Elsoms	Lannion (3028)	Late February
208	Clause	Mengwenn	Late February
209	Clause	HMC33033 (CHF 16-6058)	Late February
210	Hazera/Vilmorin	AL7722	Late February
211	Syngenta	Darifen	Early March
212	Vilmorin	Parotis	Early March
213	Clause	CLX33726	Early March
214	Elsoms	Isadora	Mid/End March
215	Syngenta	Dragen (SGC5033)	Mid March
216	Vilmorin	Carbis (AK2706)	Late March
217	Elsoms	Almeria (3029)	Late March
218	Vilmorin	Vedis	Late March
219	Elsoms	Vogue	Late March/April

Winter Confidential Plots Enza 4 row plots

220	NL2007.38221	ANIQUE
221	NL2011.10598	DIWAN
222	NL2017.122368	728
223	NL2018.124621	
224	CFNL19.144888	
225	CFNL19.144890	
226	CFNL19.144893	
227	CFNL19.144894	
228	CFNL19.144903	
229	CFNL19.144906	
230	CFNL19.144911	

**Late Winter Cauliflower Variety Trial 2020-21 (34" x 21")
8580/Acre (21192/Ha)**

Plot	Seed House	Variety	Heading Period
231	Elsoms	Nomad	Early/Mid April
232	Elsoms	Bejo 3030	Early April
233	Hazera/Vilmorin	Tostakis	Mid April
234	Elsoms	Douglas	Late April
235	Clause	Aureo (CLX33612)	Late April
236	Elsoms	Chester	Late April/May
237	Vilmorin	Arletis	April/May
238	Elsoms	Fletcher	Late May
239	Elsoms	Cartagena	Mid May
240	Elsoms	Seth	Mid May

AUTUMN CAULIFLOWER VARIETY TRIAL													
2020										SPACING 34" X 18" 10249/Acre			
A= Transplanted 16th July					B= Transplanted 23rd July								
										Crates / Acre			
SEEDHOUSE	VARIETY	PLOT	CUTTING PERIOD			DAYS	Class		Unmarket	Facepack			Class 2
			10%	50%	90%		1	2		%	8	6	
SAKATA	JERICHO	139A	13.10	20.10	27.10	14	84	4	12	743	444	26	0
		172B	27.10	27.10	5.11	9	88	2	10	461	888	13	0
AVERAGE			20.10	24.10	1.11	12	86	3	11	602	666	20	0
Uniform. Slightly twisted wrapper leaves giving good curd protection. Medium deep curds. Very good Facepack material.													
Higher % of large curds from later transplanting. Slightly wide base to curds. Quick heading. Looks very good in trays.													
BAYER	SVA AC 3332	140A	23.10	2.11	5.11	13	84	10	6	538	717	64	0
		173B	5.11	9.11	9.11	4	86	8	6	666	581	51	0
AVERAGE			29.10	5.11	7.11	9	85	9	6	602	602	58	0
Large leaves with a spreading habit. Slightly crinkled leaf type. Dark green leaves. Twisted wrapper leaves over curd. Slightly knobby curds.													
Slightly wide base to curds. Very good Facepack material. Quick harvest period.													
SAKATA	AMANDINE	141A	23.10	2.11	5.11	13	82	10	8	564	649	64	0
		174B	27.10	2.11	5.11	9	86	6	8	538	752	38	0
AVERAGE			25.10	2.11	5.11	11	84	8	8	551	700	51	0
Very uniform. Good curd cover. Easy to see, cut and bag. Slightly wide base to curds. Very good Facepack material. Medium depth curds.													
Very few defects.													
SAKATA	DENTON	142A	13.10	20.10	23.10	10	80	8	12	846	239	51	0
		175B	28.10	3.11	9.11	12	74	18	8	461	649	115	0
AVERAGE			20.10	27.10	31.10	11	77	13	10	654	444	83	0
Uniform. Slightly crinkled leaves. Slightly twisted wrapper leaves giving good protection. Smooth curds. A little Xanthomonas on bottom leave													
A few loose curds with later transplanting. Good Facepack material.													
BAYER	SV 5965AC	143A	27.10	5.11	13.11	17	88	6	6	692	581	38	0
		176B	2.11	5.11	9.11	7	84	8	8	743	444	51	0
AVERAGE			30.10	5.11	11.11	12	86	7	7	718	513	45	0
Very tall frame. Upright leaves. Twisted wrapper leavers giving good protection. Slightly wide base to curds. Looks very good in trays.													
Medium depth. Very good Facepack material Easy to see, cut and bag.													

AUTUMN CAULIFLOWER VARIETY TRIAL													
										2020		SPACING 34" X 18" 10249/Acre	
A= Transplanted 16th July						B= Transplanted 23rd July							
										Crates / Acre			
SEED HOUSE	VARIETY	PLOT	CUTTING PERIOD			DAYS	Class		Unmarket	Facepack			Class 2
			10%	50%	90%		1	2		%	8	6	
RIJK ZWAAN	MILANDES												
		144 A	27.10	5.11	5.11	9	76	12	12	589	512	77	0
Uniform. Good curd cover. Easy to see, cut and bag. Smooth curds. Good Facepack material. Will turn off white if not cut every 3 days.													
Medium depth curds. Looks very good in trays.													
SAKATA	CAU03105	145A	23.10	27.10	2.11	10	90	4	6	589	752	26	0
		178B	28.10	2.11	9.11	12	82	12	6	717	444	77	0
AVERAGE			25.10	30.10	5.11	11	86	8	6	653	598	52	0
Uniform. Dark green leaves. Good curd protection. Medium depth curds. Very little disease on leaves. Good Facepack material.													
High % marketable product.													
ELSOMS	SKYWALKER	146A	13.10	16.10	23.10	10	86	4	10	974	171	26	0
		179B	16.10	20.10	23.10	7	76	6	18	871	137	38	0
AVERAGE			14.10	18.10	23.10	9	81	5	14	923	154	32	0
Uniform. Good curd cover. Slightly wide base to curds. Some Xanthomonas on older leaves. Good Facepack material. Medium depth curds.													
Looks good in trays. Smooth curds. 10% small curds.													

2020-21		WINTER CAULIFLOWER VARIETY TRIAL										
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre				
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre				
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2	
		10%	50%	90%		1	2	%	8	6	16	12
RIJK ZWAAN	1	2.11	5.11	9.11	7	82	6	12	429	584	32	0
TRAMONT	181	2.11	5.11	9.11	7	85	10	5	644	358	54	0
AVERAGE		2.11	5.11	9.11	7	83	8	9	537	471	43	0
Uniform. Strong frame. Tight wrapper leaves protecting curds. Slightly wide base to curds. Medium depth curds.												
Good Facepack material. 8% with leaf scorch. Will turn off white if not cut every 3 days.												
CLAUSE	2	17.10	23.10	27.10	10	82	10	8	644	315	54	0
MERINOS	182	27.10	3.11	5.11	9	75	17	8	603	268	89	0
AVERAGE		22.10	29.10	1.11	10	79	13	8	624	292	72	0
Uniform. Upright frame. Loose wrapper leaves. Rather open frame. Slightly wide base to curds. Xanthomonas on outer leaves.												
Good Facepack material. Medium depth curds. 16% off white curds with later transplanting												
ELSOMS	3	20.10	5.11	19.11	30	74	18	8	644	200	97	0
TELDE	183	13.11	19.11	26.11	13	76	8	16	794	29	43	0
AVERAGE		1.11	12.11	23.11	22	75	13	12	719	115	70	0
Crinkled leaf type. Dark green leaves. Uniform. Good curd cover. Slightly knobby medium depth curds. Heavy curds. Good Facepack.												
Some brown markings on ribs of leaves. Slightly wide base to curds. Long heading period. 18% off white curds.												
BAYER	4	2.11	9.11	13.11	11	78	10	12	751	114	54	0
SV5982	184	9.11	13.11	16.11	7	94	2	4	965	57	11	0
AVERAGE		6.11	11.11	15.11	9	86	6	8	858	86	33	0
Dark green large leaves. Paler inner leaves. Very tall frame. Loose twisted wrapper leaves over curds. Slightly wide base to curds.												
Very good Facepack material. Very uniform. Looks excellent in trays. Slightly knobby curds.												
CLAUSE	5	5.11	9.11	16.11	11	84	6	10	536	486	32	0
HMC 33917	185	13.11	13.11	23.11	10	86	4	10	922	0	21	0
AVERAGE		9.11	11.11	20.11	11	85	5	10	729	243	27	0
Very uniform. Upright frame. Twisted wrapper leaves protecting curds. Clean leaves. Medium depth curds. Large curds.												
Very good Facepack material. High % larger curds from earlier transplanting.												

2020-21		WINTER CAULIFLOWER VARIETY TRIAL										
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre				
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre				
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2	
		10%	50%	90%		1	2	%	8	6	16	12
SYNGENTA	6	5.11	9.11	13.11	8	84	4	12	601	400	21	0
KASHEN	186	11.11	13.11	19.11	8	76	8	16	751	86	43	0
AVERAGE		8.11	11.11	16.11	8	80	6	14	676	243	32	0
Medium sized frame. Paler green inner leaves. High % of large curds. Very good Facepack material. A few off white curds.												
Uniform. Good curd protection. Medium depth curds.												
CLAUSE	7	5.11	9.11	16.11	11	92	0	8	751	314	0	0
DIWAN	187	9.11	13.11	19.11	10	80	10	10	794	86	54	0
AVERAGE		7.11	11.11	17.11	10	86	5	9	772	200	27	0
Tall frame. Very uniform. Twisted wrapper over curds. Slightly widebase to curds. Very good Facepack material												
Easy to see, cut and bag. Some Xanthomonas on outer leaves.												
ELSOMS	8	19.11	30.11	7.12	18	72	16	12	772	0	86	0
MAGINOT	188	19.11	26.11	7.12	18	72	16	12	772	0	86	0
AVERAGE		19.11	28.11	7.12	18	72	16	12	772	0	86	0
Some variation in curd sizes. Good curd cover. Medium depth curds. Good Facepack material. Some Xanthomonas on outer leaves.												
A few plants with stump rot at base of curds (11%). Dark green leaves.												
ELSOMS	8A	9.11	19.11	7.12	28	66	20	14	644	86	107	0
BELOT	188A	13.11	23.11	14.12	31	66	22	12	686	29	118	0
AVERAGE		11.11	21.11	11.12	30	66	21	13	665	58	113	0
Fairly uniform. Loose twisted wrapper leaves. Xanthomonas on outer leaves. A few plants with stump rot at base of curds (14%).												
Some good Facepack material. Some off white curds (16%). Long heading period.												
SYNGENTA	9	3.12	10.12	21.12	18	82	6	12	815	86	32	0
SGC 4044	189	3.12	17.12	24.12	21	80	8	12	858	0	28	0
AVERAGE		3.12	14.12	23.12	20	81	7	12	832	43	30	0
Upright frame. Very uniform. Fluted appearance. Good curd protection. Solid smooth medium depth curds. Good Facepack material.												
Slightly crinkled leaves.												

2020-21		WINTER CAULIFLOWER VARIETY TRIAL											
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre					
		Second Transplanting 23rd July 2020				(Second line)				Crates / Acre			
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2		
		10%	50%	90%		1	2	%	8	6	16	12	
BAYER	10	9.11	19.11	23.11	14	84	6	10	836	86	32	0	
SASSOLUNGO	190	13.11	19.11	5.12	22	72	14	14	772	0	75	0	
AVERAGE		11.11	19.11	29.11	18	78	10	12	804	43	54	0	
Slightly crinkled leaf. Very Uniform. Loose wrapper leaves over curds. Slightly wide base to curds. Good Facepack material.													
Some Xanthomonas on outer leaves. Medium depth solid curds.													
ELSOMS	11	9.11	16.11	19.11	10	80	4	16	729	172	21	0	
3338	191	13.11	16.11	23.11	10	82	8	10	879	0	43	0	
AVERAGE		11.11	16.11	21.11	10	81	6	13	804	86	32	0	
Crinkled leaves. Spreading habit. Very uniform. Upright slightly twisted wrapper leaves over curds. Easy to see, cut and pack.													
Very good Facepack material. A few small curds.													
CLAUSE	12	30.11	7.12	21.12	21	78	10	12	794	57	54	0	
TRIUMPHANT	192	7.12	17.12	21.12	14	76	8	16	815	0	43	0	
AVERAGE		4.12	12.12	21.12	17	77	9	14	805	28	49	0	
Upright frame. Twisted wrapper leaves over curds. Slightly knobbly curds. Slightly wide base to curds. Very good Facepack material.													
SYNGENTA	13	26.11	30.11	14.12	18	88	4	8	944	0	21	0	
5086	193	7.12	10.12	21.12	14	82	10	8	879	0	54	0	
AVERAGE		2.12	5.12	18.12	16	85	7	8	912	0	38	0	
Very uniform. Upright frame. Good curd protection. Medium depth solid curds. Easy to see, cut and bag. Very good Facepack material.													
Very few defects.													
CLAUSE	14	17.12	21.12	24.12	7	82	4	14	788	117	22	0	
JEROBOAM	194	21.12	23.12	28.12	7	76	12	12	772	57	64	0	
AVERAGE		19.12	22.12	26.12	7	79	8	13	780	87	43	0	
Upright frame. Narrow leaves. Loose twisted wrapper leaves. Slightly open frame. Some good Facepack material. Medium depth.													
14% loose curds													

2020-21		WINTER CAULIFLOWER VARIETY TRIAL										
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre				
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre				
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2	
		10%	50%	90%		1	2	%	8	6	16	12
ELSOMS	15	17.12	21.12	4.1	18	81	6	13	809	87	33	0
PACIANO	195	17.12	23.12	18.1	32	68	10	22	708	29	54	0
AVERAGE		17.12	22.12	11.1	25	75	8	17	759	58	44	0
Slightly open frame. Good Facepack material. Slightly knobby curds. Medium depth. Uniform. 10% small curds.												
ELSOMS	16	21.12	23.12	18.1	28	74	6	20	794	0	32	0
BATERNO	196	23.12	11.1	21.1	29	71	8	21	766	0	44	0
AVERAGE		22.12	2.1	19.1	28	73	7	20	780	0	38	0
12% small curds. Heavy Xanthomonas on outer leaves. Medium depth curds. Uniform. Good curd cover. Some Good Facepack material.												
SYNGENTA	S15A	21.12	23.12	18.1	28	76	2	22	794	29	11	0
ALPEN	S15B	28.12	18.1	21.1	24	72	4	24	772	0	21	0
AVERAGE		24.12	5.1	19.1	26	74	3	23	783	15	16	0
Medium/small frame. Low to the ground. Tight wrapper leaves. Solid curds. Good Facepack material												
Some xanthomonas on outer leaves with a few yellowing leaves at base of some curds. 16% small curds												
SYNGENTA	17	4.1	18.1	1.2	28	64	16	20	686	0	86	0
SGC 5086	197	11.1	21.1	25.1	14	60	16	24	657	0	88	0
AVERAGE		7.1	19.1	28.1	21	62	16	22	672	0	87	0
Strong frame. Twisted wrapper leaves. Paler inner leaves. High Xanthomonas on outer leaves. Heavy leaf drop. Yellow at base of leaves.												
Medium depth. 18% loose. 24% off white. Some good Facepack material.												
BAYER	18	18.1	28.1	1.2	14	64	16	20	686	0	86	0
SV 5697	198	18.1	28.1	1.2	14	69	9	22	744	0	44	0
AVERAGE		18.1	28.1	1.2	14	67	12	21	715	0	65	0
Very uniform. Good solid Facepack material. Just making '8s' Slightly open frame. Medium depth. Xanthomonas on outerleaves.												

2020-21		WINTER CAULIFLOWER VARIETY TRIAL										
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre				
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre				
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2	
		10%	50%	90%		1	2	%	8	6	16	12
SYNGENTA	19	11.1	18.1	28.1	17	56	24	20	601	0	129	0
AMONEN (5064)	199	18.1	21.1	25.1	7	54	21	25	581	0	112	0
AVERAGE		14.1	19.1	26.1	12	55	23	22	591	0	121	0
Twist to frame. Upright leaves. Paler inner leaves. Xanthomonas on outer leaves. Some yellowing of leaves at base of curds.												
Twisted wrapper leaves. Not easy to see but well protected. 22% loose off white curds. 8% frosted curds.												
CLAUDE	20	21.1	28.1	1.2	11	72	10	18	772	0	54	0
BRICK	200	21.1	1.2	1.2	11	72	10	18	772	0	54	0
AVERAGE		21.1	30.1	102	11	72	10	18	772	0	54	0
Uniform. Clean leaves. Slightly open frame. Medium depth curds. Good Facepack but needs cutting every 2 days or will go off white.												
A few loose curds. Just making '8s'.												
ELSOMS	21	25.1	1.2	8.2	14	62	16	22	665	0	86	0
MEDAILLON	201	25.1	28.1	4.2	10	65	4	31	700	0	22	0
AVERAGE		25.1	30.1	6.2	12	64	10	26	683	0	54	0
Deep curds. Some off white in colour. Paler green inner leaves. Good protection. Good Facepack material. A little leaf scorch on some plants												
15% small curds. Small slightly open frame.												
VILMORIN	22	25.1	28.1	1.2	7	84	4	12	901	0	21	0
TREVASKIS	202	28.1	1.2	4.2	7	74	16	10	794	0	86	0
AVERAGE		27.1	30.1	3.2	7	79	10	11	848	0	54	0
Very uniform. Deep well protected curds. Easy to see, cut and bag. Very good Facepack material. Paler green inner leaves. Medium depth.												
A few off white curds.												
SYNGENTA	S27A	8.2	15.2	18.2	10	84	9	7	905	0	48	0
CLEMEN	S27B	8.2	15.2	22.2	14	78	10	12	836	0	54	0
AVERAGE		8.2	15.2	20.2	12	81	9	10	871	0	51	0
Very uniform. Very good Facepack material. Light inner leaves. Good curd cover. Easy to see, cut and bag.												
Strong frame. Clean base leaves, low Xanthomonas. A few small curds.												

2020-21		WINTER CAULIFLOWER VARIETY TRIAL											
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre					
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre					
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2		
		10%	50%	90%		1	2	%	8	6	16	12	
SYNGENTA	23	28.1	4.2	15.2	18	72	10	18	772	0	54	0	
5092	203	1.2	4.2	8.2	7	74	14	12	794	0	75	0	
AVERAGE		30.1	4.2	12.2	13	73	12	15	783	0	65	0	
		Upright frame. Short dark green leaves. Slightly open frame. Very clean leaves. Easy to see, cut and pack. Just making size'8s'											
		Good Facepack material.											
CLAUSE	24	28.1	1.2	8.2	11	66	14	20	708	0	75	0	
HMC 33020	204	28.1	1.2	8.2	11	70	12	18	751	0	64	0	
AVERAGE		28.1	1.2	8.2	11	68	13	19	730	0	70	0	
(CHF 16-620)		Strong frame. Good curd protection. Medium depth. Good Facepack material. Easy to see, cut and pack.											
		Slightly wide base to curds. 18% loose and off white in colour											
BAYER	25	28.1	1.2	8.2	11	78	12	10	836	0	64	0	
CARANTIC	205	28.1	4.2	15.2	18	64	12	24	686	0	64	0	
AVERAGE		28.1	3.2	12.2	15	71	12	17	761	0	64	0	
		Strong frame. Uniform sized plants. Good Facepack material. A few loose curds. Smaller curds with later planting.											
		Good protection. Paler green inner leaves.											
ELSOMS	26	8.2	18.2	22.2	14	66	18	16	707	0	97	0	
GERONA	206	8.2	18.2	25.2	17	62	13	25	670	0	67	0	
AVERAGE		8.2	18.2	24.2	16	64	16	20	689	0	82	0	
		Twisted frame. Dark green leaves. Good curd cover. Slightly open frame. Good Facepack material.											
		14% small curds. Some off white curds.											
ELSOMS	27	28.1	1.2	8.2	11	58	18	24	622	0	97	0	
LANNION	207	28.1	1.2	8.2	11	56	22	22	601	0	118	0	
AVERAGE		28.1	1.2	8.2	11	57	20	23	612	0	108	0	
3028		Twisted frame. Loose wrapper leaves. Paler green inner leaves. Untidy. Medium/flattish curds.											
		Heavy Xanthomonas on outer leaves. Difficult to see curds. Some good Facepack material.											

2020-21		WINTER CAULIFLOWER VARIETY TRIAL											
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre					
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre					
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2		
		10%	50%	90%		1	2	%	8	6	16	12	
CLAUSE	28	18.2	22.2	25.2	7	80	10	10	854	0	55	0	
MENGWENN	208	18.2	22.2	25.2	7	80	8	12	854	0	44	0	
AVERAGE		18.2	22.2	25.2	7	80	9	11	854	0	49	0	
		Tall frame. Very uniform. Twisted wrapper leaves. Very good Facepack material. East to cut and bag.											
		A few small curds. Dark green leaves. Slightly wide base. Clean inner leaves. Quick heading period.											
CLAUSE	29	8.2	22.2	22.2	14	80	10	10	858	0	54	0	
HMC 33033	209	15.2	22.2	25.2	10	81	9	10	875	0	44	0	
AVERAGE		11.2	22.2	23.2	12	80	10	10	867	0	49	0	
(CHF 16-6058)		Very uniform. Upright dark green leaves. Very good Facepack material. Easy to see, cut and pack. Good curd cover.											
		Paler inner leaves. Slightly dirty at base with later planting.											
VILMORIN	30	4.2	8.2	18.2	14	50	24	26	536	0	129	0	
AL7722	210	8.2	15.2	18.2	10	49	10	41	525	0	55	0	
AVERAGE		6.2	11.2	18.2	12	50	17	33	531	0	92	0	
		Upright frame. High stump. Heavy Xanthomonas. Some yellowing of leaves at base. Untidy frame. 34% losse curds.											
		Some off white curds. Some good Facepack material.											
SYNGENTA	31	4.3	8.3	18.3	14	68	12	20	729	0	129	0	
DARIFEN	211	8.3	11.3	18.3	10	72	10	18	772	0	54	0	
AVERAGE		6.3	9.3	18.3	12	70	11	19	751	0	92	0	
		Uniform plants. Loose twisted wrapper leaves. Difficult to see curds. Paler green inner leaves. Slightly knobby curds.											
		Some good Facepack material. Some loose/off white curds.											
VILMORIN	32	22.2	25.2	8.3	14	70	14	16	751	0	75	0	
PAROTIS	212	25.2	25.2	4.3	7	78	6	16	836	0	32	0	
AVERAGE		23.2	25.2	5.3	10	74	10	16					
		Very uniform. Very good Facepack material. Medium depth. Easty to see, cut and pack. A few small curds.											
		Quick heading period with later planting. (3 cuts) 16% off white curds.											

2020-21		WINTER CAULIFLOWER VARIETY TRIAL										
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre				
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre				
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2	
		10%	50%	90%		1	2	%	8	6	16	12
ELSOMS	147	4.3	15.3	22.3	18	78	6	16	837	0	32	0
TEMPEST	180	11.3	15.3	22.3	11	78	12	10	837	0	64	0
AVERAGE		7.3	15.3	22.3	15	78	9	13	837	0	48	0
		Very uniform. Dark green leaves. Slight twist to wrapper leaves. Very good Facepack material.										
		Very east to see, cut and bag. Slightly open frame. Needs cutting every 3 or 3 days or will go off white.										
CLAUSE	33	25.3	1.4	6.4	12	74	14	12	794	0	75	0
33726	213	29.3	1.4	9.4	11	74	10	16	794	0	54	0
AVERAGE		27.3	1.4	8.4	12	74	12	14	794	0	65	0
		Dark green leaves. Twist to frame. Very uniform. Xanthomonas on outer leaves.										
		Good Facepack material.										
ELSOMS	34	25.2	1.3	11.3	14	68	16	16	729	0	86	0
ISADORA	214	25.2	1.3	8.3	11	67	6	27	722	0	33	0
AVERAGE		25.2	1.3	10.3	13	68	11	21	726	0	60	0
		Very uniform. Dark green leaves. Short wrapper leaves over curds. Medium/flattish curds. Slightly crinkled leaves.										
		Will turn off white if not cut every 2 or 3 days. Slightly open frame. 8% sibs. Several small curds with later transplanting.										
SYNGENTA	35	4.3	15.3	22.3	18	80	6	14	858	0	32	0
DRAGEN	215	11.3	18.3	22.3	11	76	12	12	794	29	64	0
AVERAGE		7.3	16.3	22.3	15	78	9	13	826	15	48	0
(SGC 5033)		Twist to a strong frame. Very uniform. Upright leaves. Very Good Facepack material.										
		Dark green leaves. Good curd cover. Easy to see cut and bag. Looks very good in trays.										
VILMORIN	36	4.3	15.3	22.3	18	78	8	14	837	0	43	0
CARBIS	216	4.3	11.3	18.3	14	88	6	6	944	0	32	0
AVERAGE		4.3	13.3	20.3	16	83	7	10	890	0	38	0
(AK2706)		Very uniform. Dark green leaves. Good curd cover. Slightly wide base to curds. Good Facepack material.										
		Tall frame, with a spreading habit. Twist to wrapper leaves.										

2020-21		WINTER CAULIFLOWER VARIETY TRIAL										
		First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre				
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre				
VARIETY	PLOT	CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2	
		10%	50%	90%		1	2	%	8	6	16	12
ELSOMS	37	4.3	15.3	18.3	14	80	14	6	858	0	75	0
ALMERIA	217	4.3	11.3	22.3	18	80	10	10	815	57	54	0
AVERAGE		4.3	13.3	20.3	16	80	12	8	837	28	65	0
3029		Very uniform. Dark green leaves. Slight twist to wrapper leaves. Very good Facepack material.										
		Few defects.										
VILMORIN	38	1.3	15.3	22.3	21	70	12	18	708	57	64	0
VEDIS	218	4.3	11.3	18.3	14	82	4	14	858	29	21	0
AVERAGE		2.3	13.3	20.3	18	76	8	16	783	43	38	0
		Uniform. Medium sized frame. Twist to short wrapper leaves. Slightly wide base to curds. Good Facepack material.										
		Some variation in curd sizes. A little dirty at base on later transplanting. 26% off white from early planting.										
ELSOMS	39	25.3	29.3	6.4	12	82	10	8	686	257	43	14
VOGUE	219	25.3	1.4	6.4	12	86	6	8	837	114	32	0
AVERAGE		25.3	31.3	6.4	12	84	8	8	762	186	38	7
		Slightly crinkled leaves. Very uniform. Very good Facepack material. Good curd cover, medium depth.										

2020-21		LATE WINTER CAULIFLOWER VARIETY TRIAL										
VARIETY	PLOT	First Transplanting 16th July 2020				(First line)		SPACING 8580 Plants/Acre				
		Second Transplanting 23rd July 2020				(Second line)		Crates / Acre				
		CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2	
		10%	50%	90%		1	2	%	8	6	16	12
Elsoms	129	9.4	12.4	19.4	10	80	10	10	729	172	54	0
Nomad	231	9.4	12.4	19.4	10	76	10	14	794	29	54	0
Average		9.4	12.4	19.4	10	78	10	12	762	101	54	0
Uniform. Strong frame. Solid curds. Good curd cover. A few small curds (6%) Slightly wide base.												
Good Facepack material.												
Elsoms	130	12.4	22.4	29.4	17	74	14	12	794	0	75	0
3030	232	15.4	22.4	26.4	11	78	4	18	729	143	21	0
Average		13.4	22.4	27.4	14	76	7	15	762	72	48	0
Very uniform. Solid curds. Upright leaves. Slight twist to wrapper leaves. Very good Facepack material. Very good cover.												
Looks very good in trays. Will turn off white if not cut every 3 days. 8% small curds.												
Vilmorin	131	12.4	26.4	4.5	22	78	10	12	729	143	54	0
Tostakis	233	19.4	26.4	4.5	15	78	10	12	794	57	54	0
Average		15.4	26.4	4.5	19	78	10	12	762	100	54	0
Very uniform. Deep solid curds. Slightly pointed wrapper leaves. Slightly crinkled leaf type. Good cover. Slightly wide base.												
Very good Facepack material. A few small curds (8%).												
Elsoms	132	1.4	12.4	15.4	14	80	6	14	558	400	32	0
Douglas	234	9.4	12.4	15.4	6	78	16	6	515	429	86	0
Average		5.4	12.4	15.4	10	79	11	10	537	415	59	0
Slightly crinkled leaves. Slightly wide base to curds. Short upright wrapper leaves. Medium depth curds. Slightly knobby curds.												
High % of large curds, a few small curds. Slightly spreading frame. Quick heading. Will turn off white if not cut every 3 days.												
Clause	133	19.4	26.4	29.4	10	80	10	10	794	86	54	0
Aureo	235	19.4	26.4	29.4	10	70	18	12	665	114	97	0
Average		19.4	26.4	29.4	10	75	14	11	730	100	76	0
Spreading habit. Slightly crinkled leaf type. Very good Facepack material. Slightly wide base to curds. Looks very good in trays.												
Very uniform. Twisted wrapper leaves. Smooth curds. Paler inner leaves. Slightly open frame. Will turn off white if not cut every 3 days												

2020-21		LATE WINTER CAULIFLOWER VARIETY TRIAL											
VARIETY	PLOT	First Transplanting 16th July 2020 (First line)					SPACING 8580 Plants/Acre						
		Second Transplanting 23rd July 2020 (Second line)					Crates / Acre						
		CUTTING PERIOD			DAYS	Class	Class	Unmarket	Facepack		Class 2		
		10%	50%	90%		1	2	%	8	6	16	12	
Elsoms	134	1.4	12.4	15.4	14	62	12	26	343	429	54	14	
Chester	236	12.4	12.4	19.4	7	72	14	14	450	429	75	0	
Average		6.4	12.4	17.4	11	67	13	20	397	429	65	7	
Variable sized curds. Tendency to become loose (29%) and off white (19%). Some good Facepack material.													
Crinkled leaf type. Open frame. Some large curds. Loose twisted wrapper leaves. Some ringspot on outer leaves.													
Vilmorin	135	4.5	6.5	13.5	9	78	8	14	601	315	43	0	
Arletis	237	29.4	4.5	10.5	11	80	10	10	858	0	54	0	
Average		2.5	5.5	12.5	10	79	9	12	730	158	49	0	
Very good Facepack material. Some large curds. Medium depth. A few small curds. Good curd cover. Strong frame.													
Solid curds. Paler inner leaves. Looks excellent in trays. Much more uniform in size from later transplanting date.													
Elsoms	136	18.4	29.4	4.5	16	80	8	12	751	143	43	0	
Fletcher	238	22.4	26.4	4.5	12	60	20	20	644	0	107	0	
Average		20.4	27.4	4.5	14	70	14	16	26.4	72	75	0	
Very uniform. Dark green leaves. Upright leaves. Solid curds. Very good Facepack material.													
Slightly open frame. Needs harvesting every 3 days or will go off white. 8% small curds.													
Elsoms	137	26.4	10.5	10.5	14	64	20	16	601	114	86	29	
Cartagena	239	4.5	10.5	13.5	9	64	22	14	686	0	118	0	
Average		30.4	10.5	12.5	12	64	21	15	644	57	102	15	
Upright frame. Slightly pointed wrapper leaves. Slightly open frame. Will turn off white if not cut every 3 days.													
Very uniform. 6% small curds.													
Elsoms	138	10.5	13.5	17.5	7	74	8	18	601	257	32	14	
Seth	240	13.5	13.5	20.5	7	68	10	22	493	315	54	0	
Average		11.5	13.5	18.5	7	71	9	20	547	286	43	7	
Uniform sized frame. Spreading habit. Crinkled leaf type. Good Facepack material. Medium depth curds. Smooth curds.													
Pale green inner leaves. Quick heading. Some large curds. Slightly wide base to curds. Needs harvesting every 3 days.													