



Certificate

MPS-ECAS awards this certificate in accordance with the certification standard MPS-ABC version 16.1, to:

**Gartneriet Broløkke
Brogårdsvej 66
5250 ODENSE
Denmark
MPS-number: 800519**

Applicable to environmental clusters:

POT PLANTS 6; HERB. PERENNIALS Container; POTPLANTS outdoors; HERBACEOUS PERENNIALS
POT PLANTS REMAINDER; POT PLANTS REMAIN. par-mat; HERBS AS POTPLANT

Validity: **14-8-2023 valid up to and including 5-11-2023**

Total points: **93,8**

Qualification: **A**

Kind regards,
MPS-ECAS

Signature:

Date of issue:
1-8-2023

Drs. R. Landsmeer, Manager Operations

N.B.: This certificate is only valid for the period specified above.

P.O. Box 114
2678 ZJ De Lier
The Netherlands

QUALIFICATION AND PERIOD GRAPHS

MPS company number: **800519/01**
Company name: Gartneriet Broløkke (total)

Valid: Period 8-2022 until Period 7-2023
Version: 1-8-2023

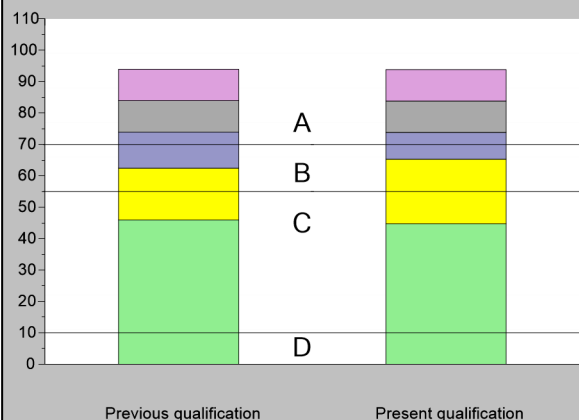
Table 1: DATA QUALIFICATIONS

SUBJECT		Your Company standard	Your use	Your points	max. points	A+ standard	A+ score	Obtained
		Lower- Upper limit						
Crop protection	Green	9,4-32,8 kg	6,6	13,4	13,4			
	Amber	5,6-21,9 kg	0,4	17,9	17,9			
	Red	1,9-9,8 kg	0,1	13,4	13,4			
total				44,7	44,7	85 %	100 %	yes
Energy total		9843,7-18266,8 GJ	8439	20,6	20,6	75 %	100 %	yes
Fertilizers	Nitrogen	442,3-1259,5 kg	1369,2	0	12,4			
	Phosphorus	138,2-431,9 kg	228,5	8,6	12,4			
total				8,6	24,7	75 %	34,6 %	no
Waste		0-130	130	10	10			
Water								
Certified parental material				10	10			
Total score (points)				93,8	110	90	96,5	yes
COMPANY QUALIFICATION				A				

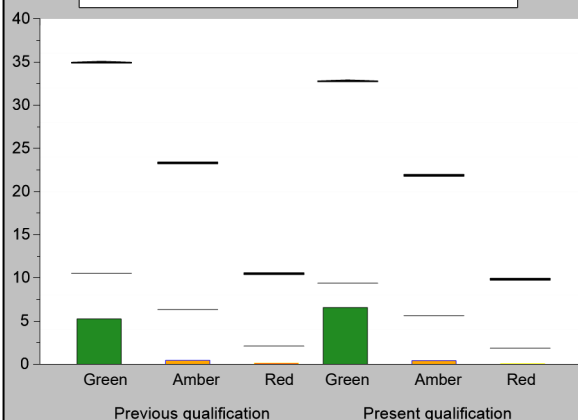
COMPANY USAGE PER 13 PERIODS

<-----> = Upper limit <.....> = Lower limit

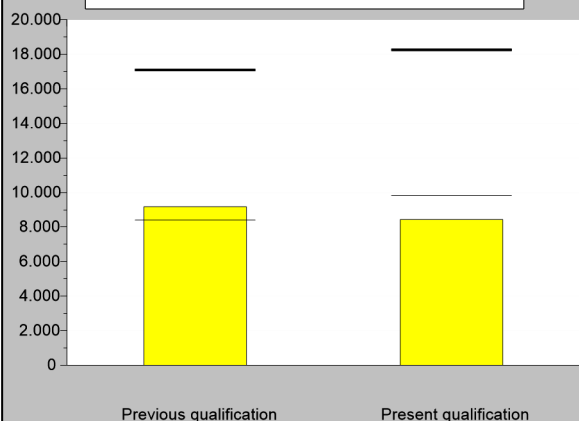
Graph 1: SCORES AND CLASS



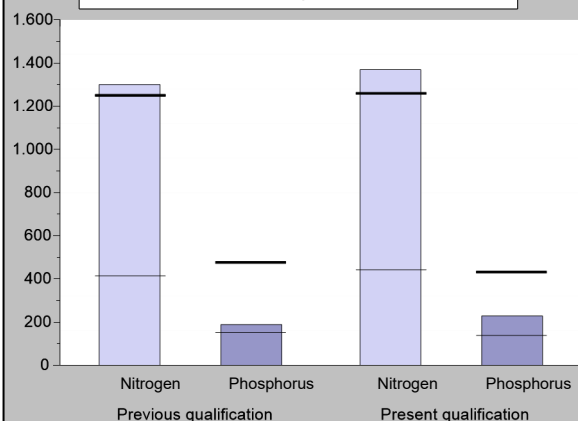
**Graph 2: CROP PROTECTION
kg active material**



**Graph 3: ENERGY
GJ**



**Graph 4/5: FERTILIZERS
kg**

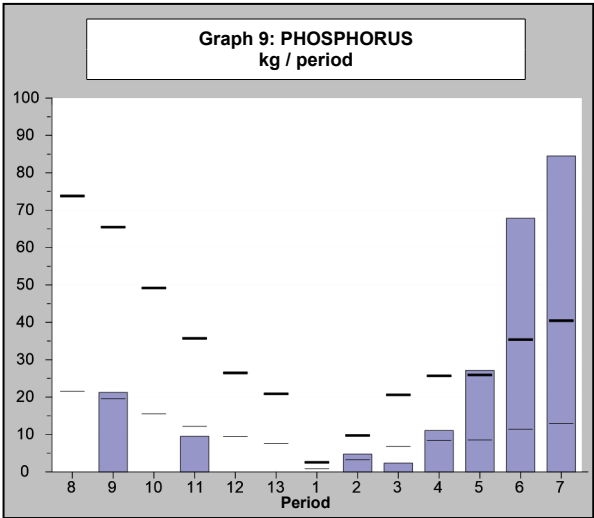
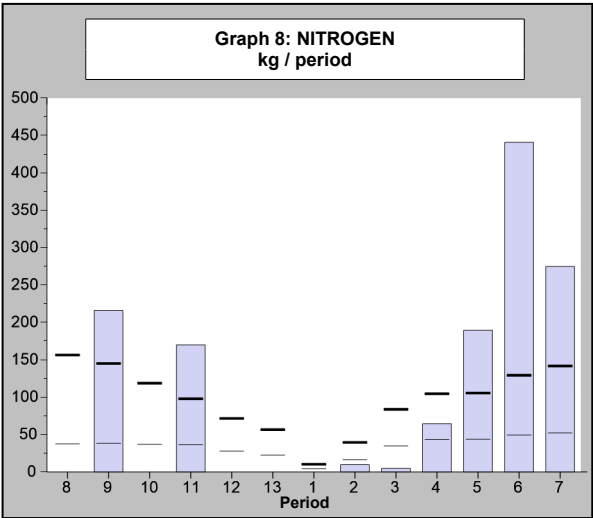
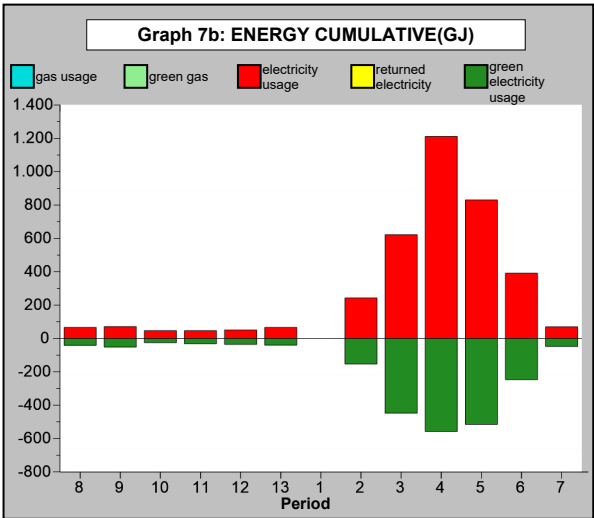
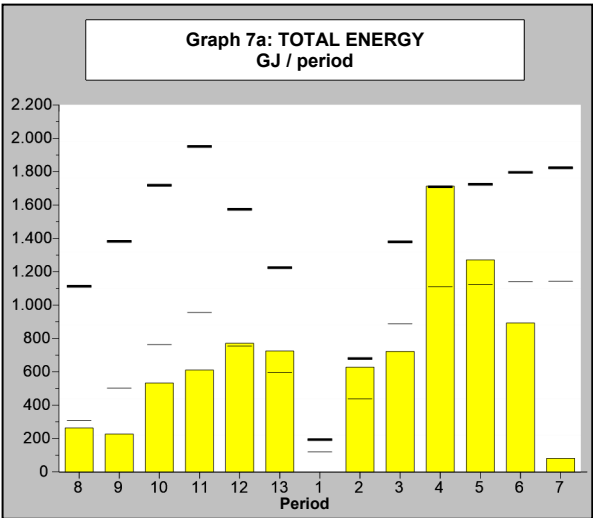
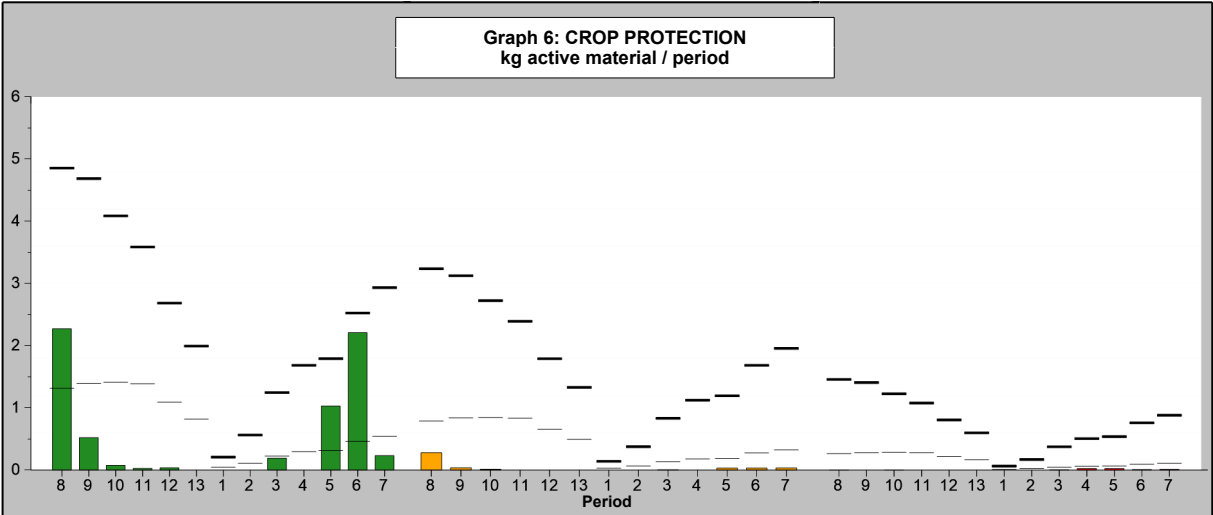


QUALIFICATION AND PERIOD GRAPHS

MPS company number: 800519/01
Company name: Gartneriet Broløkke (total)

Valid: Period 8-2022 until Period 7-2023
Version: 1-8-2023

<-----> = Upperlimit <.....> = Lowerlimit



MPS-Overview Composition of Qualification

MPS company number: **800519/01**
 Company name: Gartneriet Broløkke (total)

Valid: Period 8-2022 until Period 7-2023
 Version: 1-8-2023

Composition of company standards MPS-OEX (Area Efficiency indexX)

THEMA		Basic standard		% OEX	Companystandard	
		lower-limit	upper-limit		lower-limit	upper-limit
Crop protection	Green				9,4-32,8 kg	6,6 kg
	Amber				5,6-21,9 kg	0,4 kg
	Red				1,9-9,8 kg	0,1 kg
Energy		7791-14886,2 GJ		22,7 %	9843,7-18266,8 GJ	8439 GJ
Nitrogen (N)		367,5-1079,3 kg		16,7 %	442,3-1259,5 kg	1369,2 kg
Phosphorus (P)		123,1-386,4 kg		11,8 %	138,2-431,9 kg	228,5 kg

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	13744,2 m2		
Area certified parental material MPS-ABC	17360,5 m2	12,6	10
Area certified parental material GLOBALGAP	0 m2	0	5
Total points for Certified parental material		10	10

1) Total means: the total area covered and uncovered cultivation and the second crop layer. Not included is the uncultivated area.

Overview Environmental zones

Period	8	9	10	11	12	13	1	2	3	4	5	6	7
Environmental	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6	Zone 6

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Alar 85 SG	●	daminozide	3,179		
Bonzi	●	paclobutrazol			0,022
BotaniGard WP	○	beauveria bassiana			
Caryx	●	mepiquat chloride	1,655		
	●	metaconazole		0,236	
Dazide Enhance	●	daminozide	0,128		
Elasto G5	○	wetting/sticker agents other			
Fiba-Zorb	○	wetting/sticker agents other			
Gnatrol SC	○	bacillus thuringiensis			
Kibrill Bladglans	○	leaf shine			
Mavrik Vita	●	tau-fluvalinate	1,128		
Movento SC 100	●	spirotetramat	0,050		
Pirouette	●	paclobutrazol			0,045
Polygron	○	wetting/sticker agents other			
Polygrøn X	○	wetting/sticker agents other			
ReduClean	○	schermmiddel/-coating-remover			
Reduheat	○	shadingmaterial/ coating			
Redusol	○	shadingmaterial/ coating			
Signum WG	●	boscalid	0,307		
	●	pyraclostrobin		0,077	
Sluux	●	ferric phosphate	0,054		
Sodium Bicarbonate (Food Grade) No	○	sodium bicarbonate			
Steward	●	indoxacarb		0,109	
Teppeki	●	flonicamid	0,080		

MPS-Overview Composition of Qualification

MPS company number: **800519/01**
Company name: Gartneriet Broløkke (total)

Valid: Period 8-2022 until Period 7-2023
Version: 1-8-2023

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Annual company use of active substance			6,581	0,422	0,067

OVERVIEW RECORDED DATA

MPS company number: **800519/01**

Company name: Gartneriet Broløkke (total)

Valid: Period 8-2022 until Period 7-2023

Version: 1-8-2023

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
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FORM RECEIVED

yes yes yes yes yes yes yes

CROP PROTECTION AGENTS

3023	Alar 85 SG	grams			180		970	2200		3350	3740
3025	Bonzi	ml				5615				5615	5615
3794	BotaniGard WP	grams							500	500	5000
3352	Caryx	ml			180		970	1000	1100	3250	7880
3809	Dazide Enhance	grams						150		150	150
3305	Elasto G5	ml			750	11700	7850	5020	16000	41320	72320
3348	Fiba-Zorb	ml		4850	2400	5000	7400	2600	4900	27150	29700
3366	Gnatrol SC	ml							65000	65000	140000
3313	Kibrill Bladglans	ml									3000
3864	Mavrik Vita	ml									4700
3315	Movento SC 100	ml									500
3271	Pirouette	ml			920		5420	1500	2300	10140	11185
3126	Polygron	grams				6750				6750	11750
3204	Polygrøn X	ml					24500	5000		29500	29500
3301	ReduClean	ml									500000
3304	Reduheat	ml									2160000
3320	Redusol	ml							200000	200000	220000
3270	Signum WG	grams									1150
3328	Sluxx	grams									1800
3804	Sodium Bicarbonate (Food Grade)	grams									35000
	NovaCarb										
3312	Steward	grams									363
3293	Teppeki	grams									160

WATER

21	Total irrigation	m3									18408
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ENERGY

4	Electricity from the grid (Total)	kWh		44180	113127	220149	150915	71128	12710	612209	675764
6	Green electricity from the grid	kWh		27833	81451	101269	93567	44811	8643	357574	398331
7	Residual heat usage	GJ		619	630	1217	1098	860	68	4492	7946

LIGHTING

550026	HP-Na 1000W 400V EVSA	Hour	1	1	1	1	1	1			
		Number									
		kWatt	105120	211312	2111312	141258	60208	3012			

OVERVIEW RECORDED DATA (Continued)

MPS company number: **800519/01**

Company name: Gartneriet Broløkke (total)

Valid: Period 8-2022 until Period 7-2023

Version: 1-8-2023

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
FERTILIZERS											
1067	Acadian Oplosning af Tangekstrakt 0+0+4.2 (liquid)	litres					10	15		25	10025
513	Ammonium nitrate	kg				75	125	75	125	400	500
519	Calcium chloride 80%/85%	kg				25	50	50	50	175	175
545	Calcium nitrate (nitrate o	kg				50	250		100	400	695
1062	CC Farm 77% (Calcium Chloride agro grade flakes)	kg									75
316	Ferrous chelate DTPA 3%	litres				3	42	40	40	125	200
375	Ferrous chelate DTPA 6%	litres				1				1	1
526	Ferrous chelate DTPA 6%	kg					2	4		6	6
561	Ferrous chelate EDDHA 6%	kg									4
935	Kalisalpeter 13+0+38 Multi-K GG	kg				150	275	300	300	1025	1275
647	Kaliumsulfat (44% K2O)	kg				50	25	50	50	175	175
638	Kalk	kg		436,5	216	500	666	234	441	2493,5	2493,5
932	KobberSupport 20 Kobberchelat	litres				7,42	22	5	12	46,42	67,42
967	Lebosol-Calcium 16.7%	litres			750	4,25	15			769,25	777,2
1076	Ligoplex Ca	litres						24	20	44	50
516	Magnesium sulphate	kg					275	225	275	775	1025
903	Manganchelat 3	litres				15	30		20	65	81
666	Micromax (7.5%CaO+12%Fe+37.5% SO3)	kg		4,85	2,4	5	7,4	2,6	4,9	27,15	27,15
580	Mono-ammonium phosphate	kg				12,5	5	45	25	87,5	112
622	Mono-calcium phosphate	kg				12,5	25	25	258	320,5	345
942	Multicote 15+3+12+Mg+mikro	kg						1050		1050	1050
633	NPK 14+3+15	kg					210			210	210
444	NPK 14+7+15	kg		67,9	33,6	70	103,6	36,4	68,6	380,1	380,1
412	Phosporsyre 75%	litres					10	10	40	60	80
907	Pioner Basis Brun 14+2+23+Mg+Mikro	kg					200	650	250	1100	1750
539	Potassium sulphate	kg									25
414	Salpetersyre 62%	litres						1140	1250	2390	4131
939	Saltpoletter	kg				300	100			400	500
582	Sodium molybdenum	kg				0,7		1	2	3,7	4
941	Solubor DF 18	kg				20,4	5	3	20	48,4	50
933	ZinkSupport 20	litres					13	3	22	38	54

ENVIRONMENTAL CLUSTERS

OVERVIEW RECORDED DATA (Continued)

MPS company number: **800519/01**

Company name: Gartneriet Broløkke (total)

Valid: Period 8-2022 until Period 7-2023

Version: 1-8-2023

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
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ENVIRONMENTAL CLUSTERS

Indoor crops											
4000	UNCULTIVATED	m2									
4058	HERBACEOUS PERENNIALS	m2		186	1129	1200	1200	1200	1200		
4066	POT PLANTS 6	m2									
4070	POT PLANTS REMAINDER	m2	450	496	500	500	500	500	500		
4075	HERBS AS POTPLANT	m2	375	2264	5743	8373	9022	9022	9022		
5070	POT PLANTS REMAIN. par-mat	m2	100	100	100	18					
Subtotal			925	3046	7471	10091	10722	10722	10722		
Outdoor crops											
4044	POTPLANTS outdoors	m2						3214	5000		
4099	UNCULTIVATED	m2									
4114	HERB. PERENNIALS Container	m2	100	100	100	100	100	3250	5000		
Subtotal			100	100	100	100	100	6464	10000		
Certified parental material											
661	MPS-ABC certif.parental mat. indoor	m2	925	3046	7471	10091	10722	10722	10722		
663	MPS-ABC certif.parental mat. outdoor	m2	100	100	100	100	100	6464	10000		

GENERAL INFORMATION FORM

MPS-Mind

Surface water

3900 What is the minimum distance of this location to the nearest surface water? < 250 metres / < 820 feet

Cover

3910 Does the surface of protected cultivation exceed 95% of this location? no

3901 What is the percentage of protected cultivation for this location (protected surface/total recorded surface for location)? 0 - 25% covered crops

3909 When a plot used for outdoor crops is close to surface water, is the plot separated from the water by a wind-break or a crop free zone of at least three metres yes

Slope

3902 What is the maximum slope of a plot on this location? 3 - 10%

Leaching to groundwater

3903 Do you grow more than 95% of your crops in a closed (recirculation) system, with less than 3% loss of drainwater? No

3904 What is the minimum depth of the groundwater on all your plot(s)? 3 - 15 metres / 9,8 - 49,2 feet

OVERVIEW RECORDED DATA (Continued)

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GENERAL INFORMATION FORM

MPS-Mind

3905	What is the lowest percentage of organic material of your soil on all your plots of this location?	1,5 - 3%
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MPS-OEX

Sidescreens:

3950	Are sidescreens being used during lighting in the night?	Yes
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Topscreens:

3951	Are topscreens being used during lighting in the night?	Yes
3952	If yes, what is the percentage of light-reduction?	95% or more

CO2

3953	Do you apply CO2?	Yes
3954	If yes, on what percentage of your heated greenhouse area?	100
3955	If you apply CO2, do you have a closed greenhouse (without ventilation windows)?	Yes
3956	If yes, what percentage of the greenhouse with CO2 is a closed greenhouse?	100

Substrate

3957	Do you cultivate cut flowers on substrate?	No
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Diffuse light

3961	Do you have diffuse glass on your greenhouse?	No
3963	Do you have diffuse foil on your foil-greenhouse?	No
3965	Do you have diffuse screens on your greenhouse?	Yes
3966	If yes, on what percentage of your greenhouse area?	38
3967	Do you use a diffuse coating on your greenhouse?	No

Waste management

41	Do you process organic waste in a responsible way?	Yes
42	Do you process paper waste in a responsible way?	Yes
43	Do you process plastic waste in a responsible way?	Yes

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Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
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FORM RECEIVED

yes yes yes yes yes yes

CROP PROTECTION AGENTS

3023	Alar 85 SG	grams	350				40		390
3025	Bonzi	ml							
3794	BotaniGard WP	grams	4000		500				4500
3352	Caryx	ml	4280		350				4630
3809	Dazide Enhance	grams							
3305	Elasto G5	ml	12700	800	7500		10000		31000
3348	Fiba-Zorb	ml	2550						2550
3366	Gnatrol SC	ml	5000		20000	5000	45000		75000
3313	Kibrill Bladglans	ml					3000		3000
3864	Mavrik Vita	ml	2800	1900					4700
3315	Movento SC 100	ml	100	400					500
3271	Pirouette	ml	500		445		100		1045
3126	Polygron	grams			5000				5000
3204	Polygrøn X	ml							
3301	ReduClean	ml				500000			500000
3304	Reduheat	ml	2160000						2160000
3320	Redusol	ml	20000						20000
3270	Signum WG	grams	1150						1150
3328	Sluxx	grams	1800						1800
3804	Sodium Bicarbonate (Food Grade)	grams	35000						35000
	NovaCarb								
3312	Steward	grams	243	120					363
3293	Teppeki	grams	64	48		48			160

WATER

21	Total irrigation	m3		14562				3846	18408
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ENERGY

4	Electricity from the grid (Total)	kWh	12137	12992	8624	8514	9225	12063	63555
6	Green electricity from the grid	kWh	7525	9354	4571	5704	6365	7238	40757
7	Residual heat usage	GJ	274	238	587	684	868	803	3454

LIGHTING

550026	HP-Na 1000W 400V EVSA	Hour	1	1	1	1	1	1	
		Number							
		kWatt	1	1157	144	181	2576	35504	

OVERVIEW RECORDED DATA (Continued)

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FERTILIZERS									
1067	Acadian Oplosning af Tangekstrakt 0+0+4.2 (liquid)	litres			10000				10000
513	Ammonium nitrate	kg		25		75			100
519	Calcium chloride 80%/85%	kg							
545	Calcium nitrate (nitrate o	kg		50		245			295
1062	CC Farm 77% (Calcium Chloride agro grade flakes)	kg		25		50			75
316	Ferrous chelate DTPA 3%	litres		25		50			75
375	Ferrous chelate DTPA 6%	litres							
526	Ferrous chelate DTPA 6%	kg							
561	Ferrous chelate EDDHA 6%	kg				4			4
935	Kalisalpeter 13+0+38 Multi-K GG	kg		150		100			250
647	Kaliumsulfat (44% K2O)	kg							
638	Kalk	kg							
932	KobberSupport 20 Kobberchelat	litres		5		16			21
967	Lebosol-Calcium 16.7%	litres			0,75		7,2		7,95
1076	Ligoplex Ca	litres		1	5				6
516	Magnesium sulphate	kg		125		125			250
903	Manganchelat 3	litres				16			16
666	Micromax (7.5%CaO+12%Fe+37.5% SO3)	kg							
580	Mono-ammonium phosphate	kg		12		12,5			24,5
622	Mono-calcium phosphate	kg		12		12,5			24,5
942	Multicote 15+3+12+Mg+mikro	kg							
633	NPK 14+3+15	kg							
444	NPK 14+7+15	kg							
412	Phosporsyre 75%	litres		10		10			20
907	Pioner Basis Brun 14+2+23+Mg+Mikro	kg		600		50			650
539	Potassium sulphate	kg				25			25
414	Salpetersyre 62%	litres		926		815			1741
939	Saltpoletter	kg				100			100
582	Sodium molybdenum	kg				0,3			0,3
941	Solubor DF 18	kg				1,6			1,6
933	ZinkSupport 20	litres		6		10			16

ENVIRONMENTAL CLUSTERS

OVERVIEW RECORDED DATA (Continued)

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Version: 1-8-2023

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
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ENVIRONMENTAL CLUSTERS

Indoor crops

4000 UNCULTIVATED	m2	7672	6904	5886	4443	4819		
4058 HERBACEOUS PERENNIALS	m2	2100	1411	371	79			
4066 POT PLANTS 6	m2	950	2407	4143	5200	3914	2700	
4070 POT PLANTS REMAINDER	m2			321	1000	1000	961	
4075 HERBS AS POTPLANT	m2							
5070 POT PLANTS REMAIN. par-mat	m2						64	
Subtotal		10722	10722	10722	10722	9733	3725	

Outdoor crops

4044 POTPLANTS outdoors	m2	31800	25346	13821	4143	857		
4099 UNCULTIVATED	m2	18700	25743	38468	48757	51900	50046	
4114 HERB. PERENNIALS Container	m2	2500	1911	711	100	100	100	
Subtotal		53000	53000	53000	53000	52857	50146	

Certified parental material

661 MPS-ABC certif.parental mat. indoor	m2	7211	6459	10722	9517	4914	3725	
663 MPS-ABC certif.parental mat. outdoor	m2	53000	39643	14532	4243	957	100	