



Certificate

MPS-ECAS awards this certificate in accordance with the
certification scheme MPS-ABC version 16, to:

**Gartneriet Lundegaard ApS
Espestok 54Gl. Korup
5210 ODENSE
Denmark
MPS-number: 804454**

Applicable to environmental clusters:

POT PLANTS 2; POT PLANTS 5; HERBACEOUS PERENNIALS; POT PLANTS REMAINDER

Validity: **8-11-2021 valid up to and including 30-1-2022**

Total points: **60,0**

Qualification: **B**

Kind regards,
MPS-ECAS

Signature:

Ing. C. Maas

Date of issue:
14-10-2021

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: **804454/01**
Company name: Gartneriet Lundegaard ApS (total)

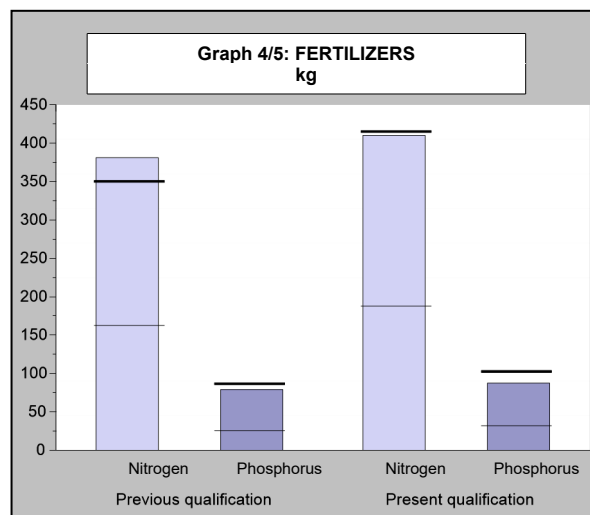
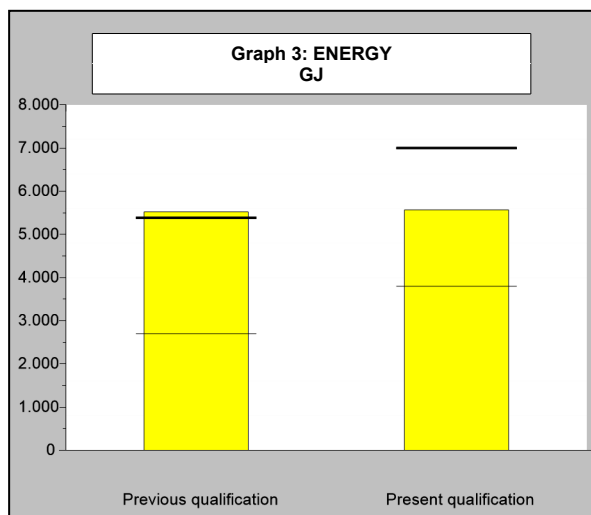
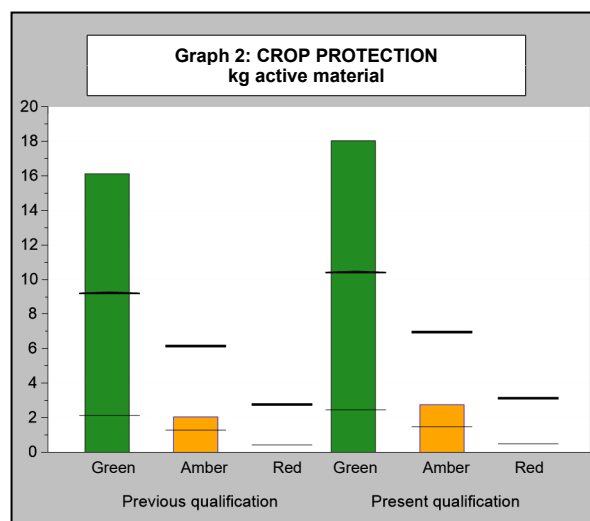
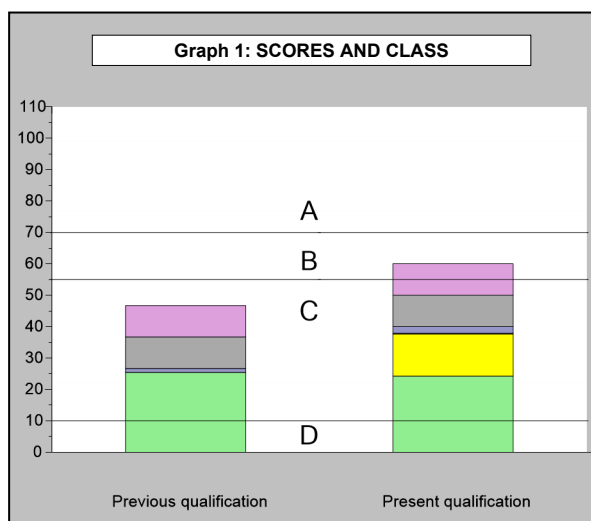
Valid: Period 11-2020 until Period 10-2021
Version: 14-10-2021

Table 1: DATA QUALIFICATIONS

SUBJECT		Uw Company standard	Uw use	Uw points	max. points	A+ standard	A+ score	Obtained
		Lower- Upper limit						
Crop protection	Green	2.5-10,4 kg	18	0	12			
	Amber	1,5-7 kg	2,8	12,3	16			
	Red	0,5-3,1 kg	0	12	12			
total				24,3	40	85 %	60,6 %	no
Energy total		3799,3-6999,3 GJ	5568,1	13,4	30	75 %	44,7 %	no
Fertilizers	Nitrogen	187,7-415,3 kg	410,3	0,2	10			
	Phosphorus	32,1-102,6 kg	87,4	2,2	10			
total				2,4	20	75 %	11,8 %	no
Waste		0-130	130	10	10			
Water								
Certified parental material				10	10			
Total score (points)				60	110	90	60	no
COMPANY QUALIFICATION				B				

COMPANY USAGE PER 13 PERIODS

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

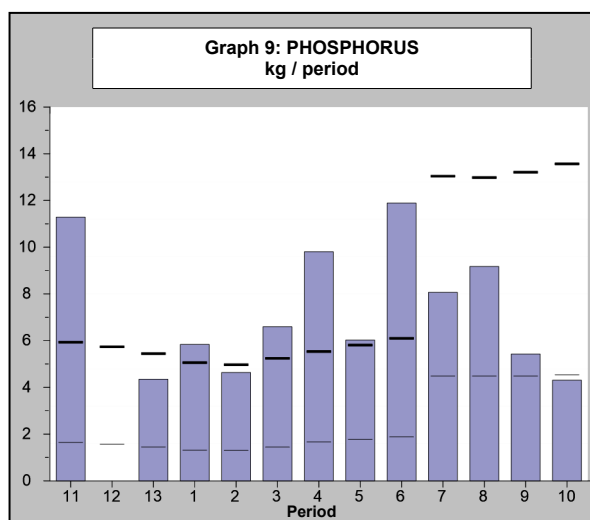
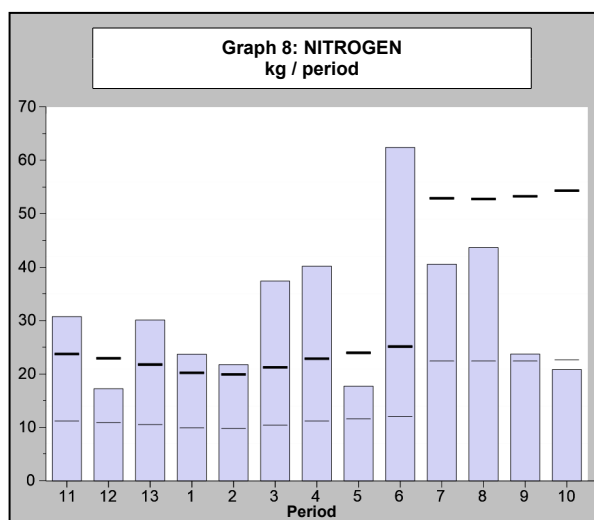
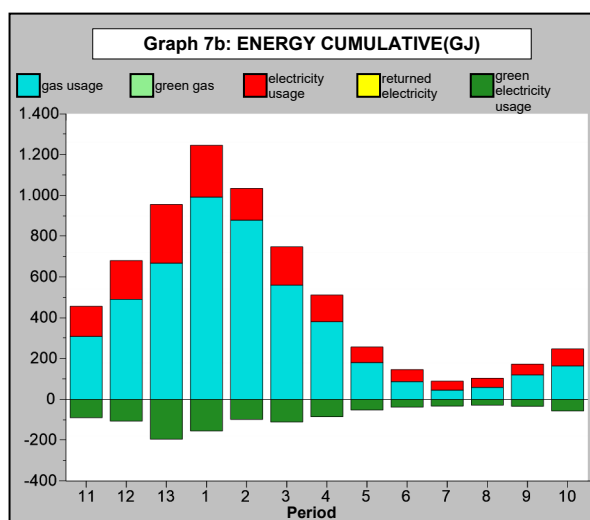
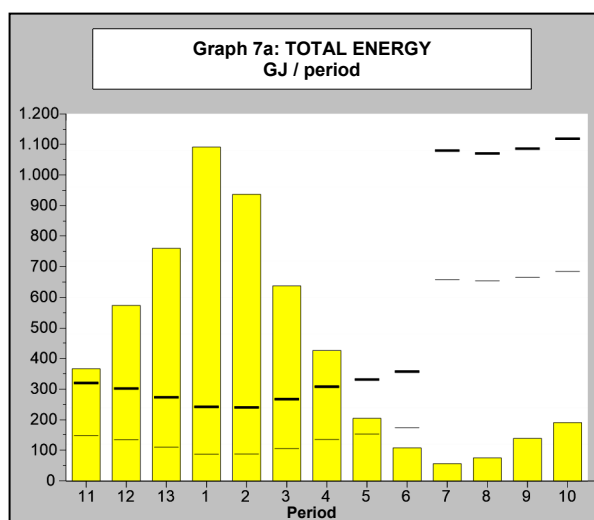
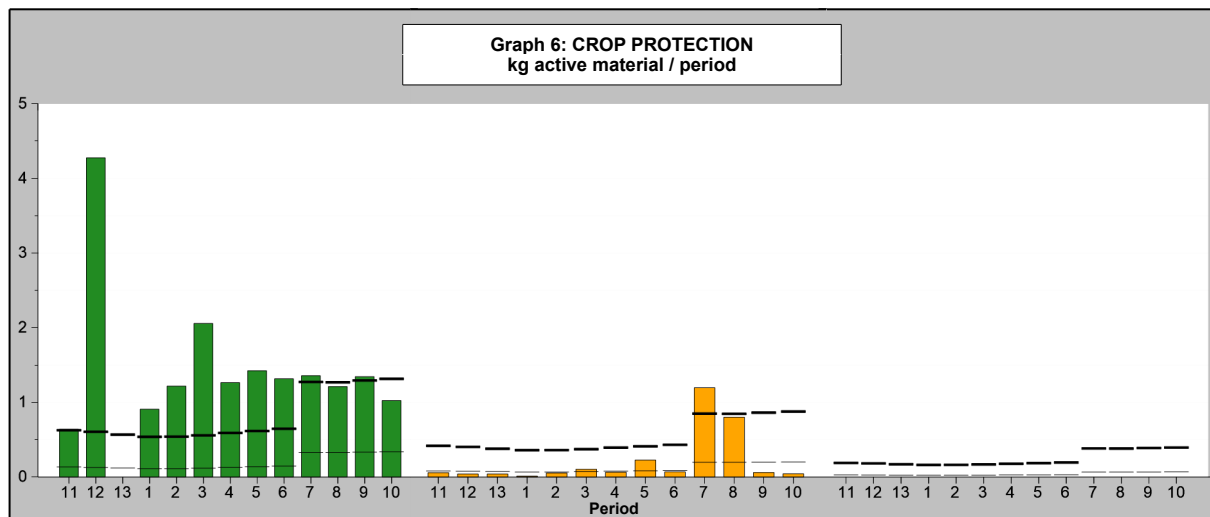


QUALIFICATION AND PERIOD GRAPHS

MPS company number: **804454/01**
 Company name: Gartneriet Lundegaard ApS (total)

Valid: Period 11-2020 until Period 10-2021
 Version: 14-10-2021

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



MPS-Overview Composition of Qualification

MPS company number: **804454/01**
 Company name: Gartneriet Lundegaard ApS (total)

Valid: Period 11-2020 until Period 10-2021
 Version: 14-10-2021

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

THEMA		Basic standard		% OEX	Company standard	
		lower-limit	upper-limit		lower-limit	upper-limit
Crop protection	Green				2,5-10,4 kg	18 kg
	Amber				1,5-7 kg	2,8 kg
	Red				0,5-3,1 kg	
Energy		3765,8-6923,8 GJ		1,1 %	3799,3-6999,3 GJ	5568,1 GJ
Nitrogen (N)		185,1-409,7 kg		1,4 %	187,7-415,3 kg	410,3 kg
Phosphorus (P)		31,7-101,3 kg		1,4 %	32,1-102,6 kg	87,4 kg

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	5837 m2		
Area certified parental material MPS-ABC	5836,9 m2	10	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	11	12	13	1	2	3	4	5	6	7	8	9	10
Environmental	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Alar 85 SG	●	daminozide	12,465		
ATR Sneglekorn (Snail Grains)	●	ferric phosphate	0,024		
Azatin EC	●	azadirachtin	0,099		
Conserve	●	spinosad	0,249		
DiPel DF	○	bacillus thuringiensis			
Fiba-Zorb	○	wetting/sticker agents other			
Gnatrol SC	○	bacillus thuringiensis			
Metaxon	●	mcpa		1,133	
Per aqua	○	hydrogen peroxide			
	○	peroxyacetic acid			
Pirouette	●	paclobutrazol		0,711	
Pistol	●	diflufenican		0,120	
	●	glyphosate		0,750	
Proplant	●	propamocarb	3,346		
Signum WG	●	boscalid	1,398		
	●	pyraclostrobin	0,351		
Teppeki	●	flonicamid	0,108		
Vertimec	●	abamectin		0,046	
Annual company use of active substance			18,040	2,759	

OVERVIEW RECORDED DATA

MPS company number: **804454/01**
 Company name: Gartneriet Lundegaard ApS (total)

Valid: Period 11-2020 until Period 10-2021
 Version: 14-10-2021

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal	Year total
FORM RECEIVED			yes	yes	yes	yes	yes	yes		
CROP PROTECTION AGENTS										
3023	Alar 85 SG	grams	1060	960	1100	800	1300	600	5820	14665
990395	Amblyseius / Neoseiulus cucumeris	number	250000	350000	400000	900000	550000	400000	2850000	4075000
990424	Aphidius colemani	number	12000	12000	12000	12000	12000	12000	72000	156000
3868	ATR Sneglekorn (Snail Grains)	grams						1000	1000	1000
3847	Azatin EC	ml	500		300				800	3670
3205	Conserve	ml	180			134	340	250	904	2074
3826	DiPel DF	grams				200			200	200
3348	Fiba-Zorb	ml	2484	2819	1569	1877	4348	1881	14978	21027
3366	Gnatrol SC	ml	9470	5360	5720	6410	13350	5849	46159	87780
990675	Hypoaspis miles / Stratiolaelaps Scimitus	number	1000000	1125000	1000000	1000000	1500000	500000	6125000	11125000
3195	Metaxon	ml	10		900	600			1510	1510
3307	Per aqua	ml	132900	198000	110000	155000	220000		815900	1524700
3271	Pirouette	ml	18430	16930	21280	15100	11890	6525	90155	177698
3303	Pistol	ml	500		1500	1000			3000	3000
3248	Proplant	ml	447	525	360	480		390	2202	5228
3270	Signum WG	grams	498	490	528	524	596	572	3208	5236
3355	Skolelim	ml								54000
990706	Steinernema carpocapsae	number								569000000
990515	Steinernema feltiae	number	1390000000	489000000	404000000	360000000	878000000	1477000000	4998000000	6469000000
3293	Teppeki	grams	70		15	63		40	188	215
3251	Vertimec	ml					660	920	1580	2580
WATER										
21	Total irrigation	m3	149	183	239	240	81	118	1010	1934
ENERGY										
1	Gas consumption	m3	5157	2492	1300	1686	3420	4678	18733	140707
2	Conversion factor		1	1	1	1	1	1		
3	Caloric value		1	1	1	1	1	1		
4	Electricity usage (Total)	kWh	13788	10697	7985	8060	9673	15103	65306	311183
6	Green Electricity Usage	kWh	9514	6953	5989	5158	6191	10270	44075	196814
LIGHTING										
550012	HP-Na 600W 230V Conv.	Hour	1	1				1		
		Number								

OVERVIEW RECORDED DATA (Continued)

MPS company number: **804454/01**
 Company name: Gartneriet Lundegaard ApS (total)

Valid: Period 11-2020 until Period 10-2021
 Version: 14-10-2021

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal	Year total
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LIGHTING (Continued)

kWatt	6415	2686						6748		
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FERTILIZERS

513 Ammonium nitrate	kg	0,3	0,9	0,3	0,3	0,3			2,1	2,7
545 Calcium nitrate (nitrate o	kg		144	94	94	48	46		426	835
635 Fosmagnit	litres	0,8	2,4	2,8	0,8	0,8			7,6	11,6
935 Kalisalpetet 13+0+38 Multi-K GG	kg	53,2	159,6	103,2	103,2	53,2	50		522,4	950,6
647 Kaliumsulfat (44% K2O)	kg	25	75	50	50	25	25		250	450
638 Kalk	kg	99,11	111,5	65,25	76,65	168,08	76,8		597,39	1797,14
572 Magnesium nitrate	kg	20,9	62,7	40,9	40,9	20,9	20		206,3	382,2
516 Magnesium sulphate	kg	18	54	36	36	18	18		180	320
666 Micromax (7.5%CaO+12%Fe+37.5% SO3)	kg	1,467	1,635	1,01	1,16	2,4	1,165		8,837	20,348
581 Mono-potassium phosphate	kg	9	27	18	18	9	9		90	160
420 NPK 12+6+20	kg	19,36	21,58	13,33	15,36	31,67	15,38		116,68	268,633
633 NPK 14+3+15	kg									105
412 Phospor syre 75%	litres	12	18	12	18	6	6		72	133
457 Pioner Mikro Plus med Jern (1.92%)	litres	18,1	54,3	36,1	36,1	18,1	18		180,7	288,9
414 Salpeter syre 62%	litres	56	84	56	84	28	28		336	600

ENVIRONMENTAL CLUSTERS

Indoor crops										
4058 HERBACEOUS PERENNIALS	m2	4742	4528							
4062 POT PLANTS 2	m2	548	753	887	1045	1117	999			
4065 POT PLANTS 5	m2	547	556	556	633	339	52			
4070 POT PLANTS REMAINDER	m2			4394	4159	4381	4786			
Subtotal		5837	5837	5837	5837	5837	5837			
Certified parental material										
661 MPS-ABC certif.parental mat. indoor	m2	5837	5837	5837	5837	5837	5836			

OVERVIEW RECORDED DATA (Continued)

MPS company number: **804454/01**
Company name: Gartneriet Lundegaard ApS (total)

Valid: Period 11-2020 until Period 10-2021
Version: 14-10-2021

GENERAL INFORMATION FORM

MPS-Mind

Surface water

3900 What is the minimum distance of this location to the nearest surface water? 250 - 2500 metres / 820 - 8200 feet

Cover

3910 Does the surface of protected cultivation exceed 95% of this location? Yes

Slope

3902 What is the maximum slope of a plot on this location? flat

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? Yes

MPS-OEX

Sidescreens:

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

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? No

Substrate

3957 Do you cultivate cut flowers on substrate? No

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? No

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

OVERVIEW RECORDED DATA

MPS company number: **804454/01**
 Company name: Gartneriet Lundegaard ApS (total)

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 Version: 14-10-2021

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal
FORM RECEIVED			yes	yes	yes	yes	yes	yes	yes	
CROP PROTECTION AGENTS										
3023	Alar 85 SG	grams		5000		680	695	1550	920	8845
990395	Amblyseius / Neoseiulus cucumeris	number	262500		62500	200000	200000	200000	300000	1225000
990424	Aphidius colemani	number	12000	12000	12000	12000	12000	12000	12000	84000
3868	ATR Sneglekorn (Snail Grains)	grams								
3847	Azatin EC	ml		1000			770	600	500	2870
3205	Conserve	ml				300	160	410	300	1170
3826	DiPel DF	grams								
3348	Fiba-Zorb	ml			11	2	2	2479	3555	6049
3366	Gnatrol SC	ml			10000	5280	8611	11170	6560	41621
990675	Hypoaspis miles / Stratiolaelaps Scimitus	number	250000	250000	250000	1125000	875000	1000000	1250000	5000000
3195	Metaxon	ml								
3307	Per aqua	ml			310100	22150	66450	177200	132900	708800
3271	Pirouette	ml	10000	10000	10000	2999	12984	25640	15920	87543
3303	Pistol	ml								
3248	Proplant	ml	1000			330	480	780	436	3026
3270	Signum WG	grams				248	838	524	418	2028
3355	Skolelim	ml	54000							54000
990706	Steinernema carpocapsae	number							569000000	569000000
990515	Steinernema feltiae	number				444000000	460000000	567000000		1471000000
3293	Teppeki	grams							27	27
3251	Vertimec	ml	1000							1000
WATER										
21	Total irrigation	m3	106	93	85	123	199	90	228	924
ENERGY										
1	Gas consumption	m3	8809	13963	19045	28273	25049	15978	10857	121974
2	Conversion factor		1	1	1	1	1	1	1	
3	Caloric value		1	1	1	1	1	1	1	
4	Electricity usage (Total)	kWh	26841	34618	52210	46139	28291	34094	23684	245877
6	Green Electricity Usage	kWh	16373	19386	35503	28144	17823	20115	15395	152739
LIGHTING										
550012	HP-Na 600W 230V Conv.	Hour	1	1	1	1	1	1	1	
		Number								

OVERVIEW RECORDED DATA (Continued)

MPS company number: **804454/01**
 Company name: Gartneriet Lundegaard ApS (total)

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Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal
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LIGHTING (Continued)

kWatt	17696	21733	36437	29980	13746	20879	12523
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FERTILIZERS

513 Ammonium nitrate	kg						0,3		0,3	0,6
545 Calcium nitrate (nitrate o	kg	75	50	50	46	48		92	48	409
635 Fosmagnit	litres					2			2	4
935 Kalisalpetet 13+0+38 Multi-K GG	kg	75	50	50	50	53,2		100	50	428,2
647 Kaliumsulfat (44% K2O)	kg	25	25	25	25	25		50	25	200
638 Kalk	kg			447,7	94,59	74,8		98,92	483,74	1199,75
572 Magnesium nitrate	kg	25	25	25	20	20,9		40	20	175,9
516 Magnesium sulphate	kg	25	25		18	18		36	18	140
666 Micromax (7.5%CaO+12%Fe+37.5% SO3)	kg			5,5	1,41	1,138		1,46	2,003	11,511
581 Mono-potassium phosphate	kg	25			9	9		18	9	70
420 NPK 12+6+20	kg			72,6	18,56	15,03		19,33	26,433	151,953
633 NPK 14+3+15	kg								105	105
412 Phospor syre 75%	litres	25			12	6		6	12	61
457 Pioneer Mikro Plus med Jern (1.92%)	litres			18	18	18,1		36	18,1	108,2
414 Salpeter syre 62%	litres	60		40	52	28		28	56	264

ENVIRONMENTAL CLUSTERS

Indoor crops										
4058 HERBACEOUS PERENNIALS	m2	4997	5145	5401	5610	5573		5353	4920	
4062 POT PLANTS 2	m2	838	692	436	227	230		286	365	
4065 POT PLANTS 5	m2	2				34		198	552	
4070 POT PLANTS REMAINDER	m2									
Subtotal		5837	5837	5837	5837	5837		5837	5837	
Certified parental material										
661 MPS-ABC certif.parental mat. indoor	m2	5837	5837	5837	5837	5837		5837	5837	

CO2 Indicator

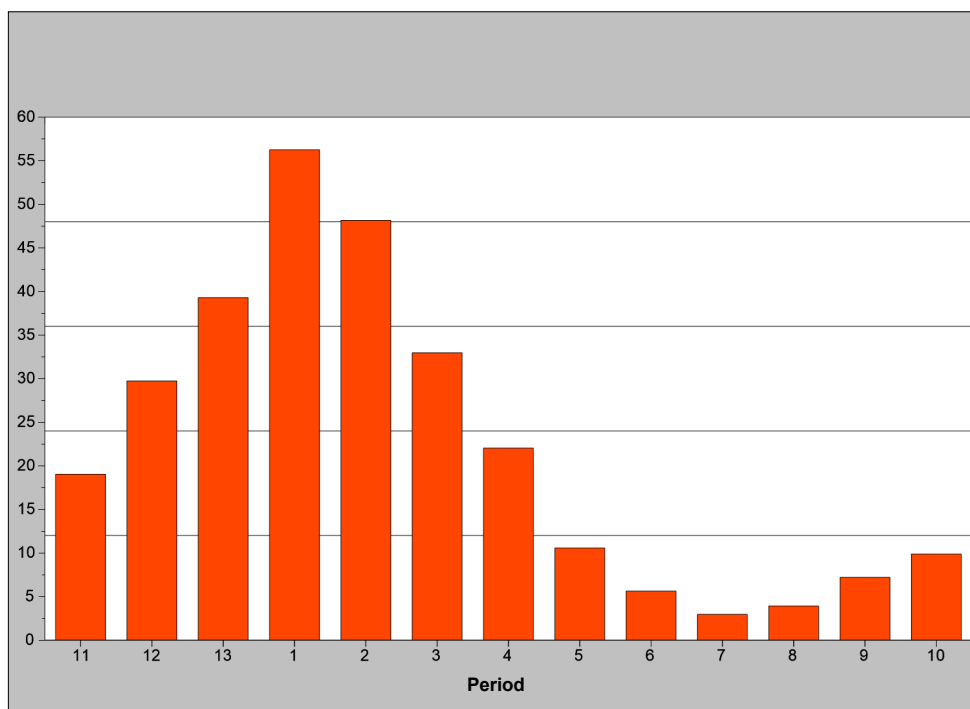
MPS company number: **804454/01**
Company name: Gartneriet Lundegaard ApS

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Review CO2-emission per energy source per year (x 1000 kg)

Code		CO2 production (x 1000)
1	Gas consumption	252
4	Electricity usage (Total)	96
6	Green Electricity Usage	-61
Total		287

Review CO2-emission per period (x 1000 kg)



Disclaimer: the purpose of the above mentioned table and graphics is to give an insight in the CO2-emission on company level. The CO2 emission has been based on the energy consumption in GJ and the internationally accepted arithmetic rules. The calculation of the quantity in GJ is based on the calculation system of MPS for the fuel used by the company and the electricity and heating that has been bought and sold. The review serves only as a management tool. No rights can be derived. It is not allowed to use this review for other purposes. In cooperation with (inter)national stakeholders and research organizations MPS is working on further developments concerning CO2. We mainly focus on CO2 emission in the transport chain and the CO2 emission per physical production.