

**MPS
ECAS**



Certificate

MPS-ECAS awards this certificate in accordance with the certification scheme MPS ABC version 15 080217, to:

**Luxaflor Roses
Manyewe North Farm, P.O. Box 1
CONCESSION
Zimbabwe
MPS-number: 792011**

Applicable to environmental clusters:
ROSE; ARBORICULTURE

Validity: **2-11-2020 until 31-1-2021**
Total points: **94,7**
Qualification: **A**

Kind regards,
MPS-ECAS

Signature:

Ing. C. Maas

Date of issue:
7-10-2020

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

QUALIFICATION AND PERIOD GRAPHS

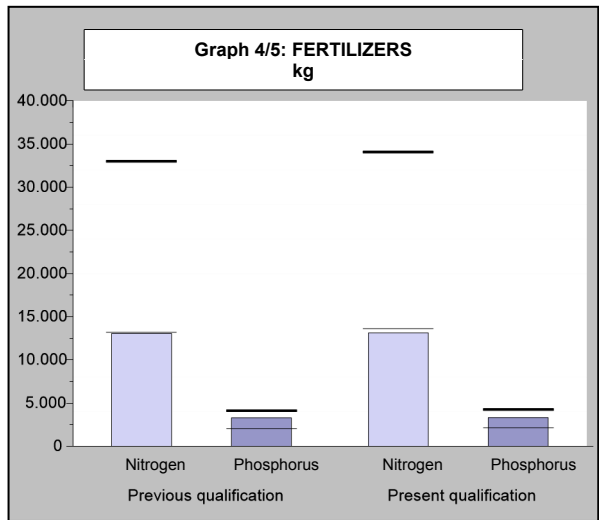
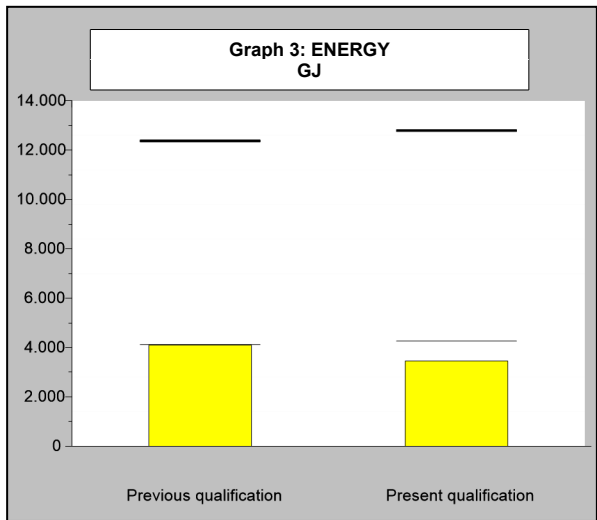
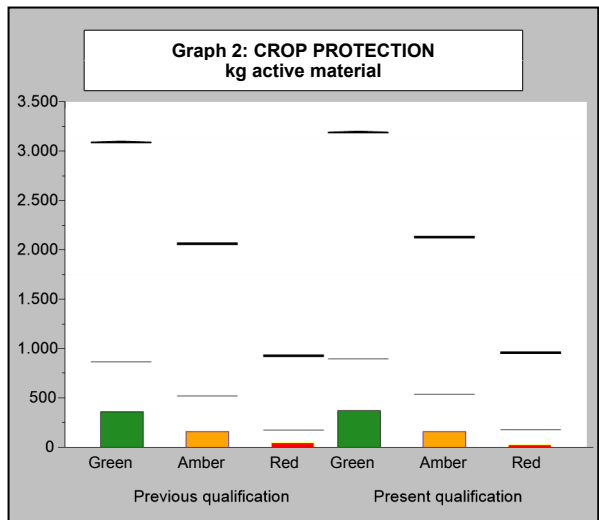
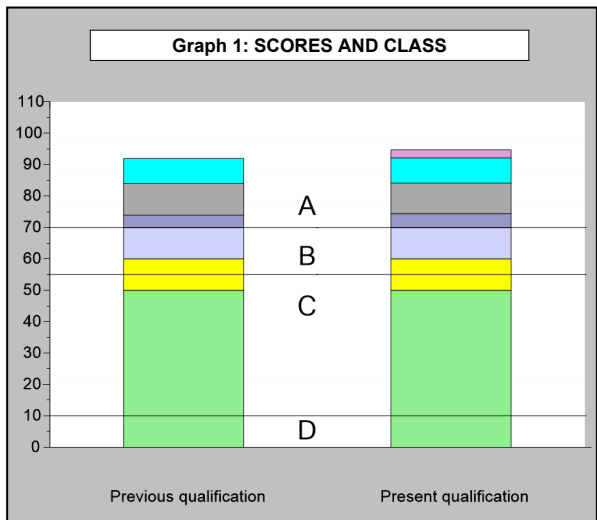
MPS company number: **792011/01**
 Company name: Luxaflor Roses (total)

Valid: Period 11-2019 until Period 10-2020
 Version: 7-10-2020

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	894,5	3194,8 kg	371,7	15	15			
	Amber	536,7	2129,8 kg	159,6	20	20			
	Red	178,9	958,4 kg	24,8	15	15			
total					50	50	85 %	100 %	yes
Energy total		4269,2	12796,2 GJ	3458,4	10	10	75 %	100 %	yes
Fertilizers	Nitrogen	13636,2	34080 kg	13133	10	10			
	Phosphorus	2132,5	4262,3 kg	3325	4,4	10			
total					14,4	20	75 %	72 %	no
Waste		0	130	127	9,8	10			
Water		0	130	104	8	10			
Certified parental material					2,6	10			
Total score (points)					94,7	110	90	94,7	yes
COMPANY QUALIFICATION					A				

COMPANY USAGE PER 13 PERIODS
 <-----> = Upper limit <.....> = Lower limit

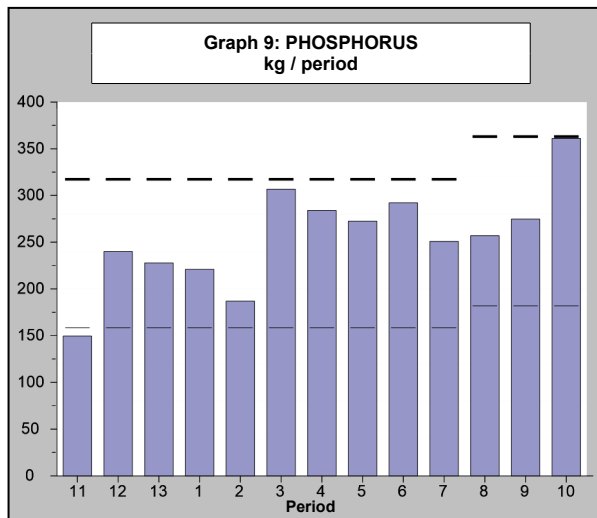
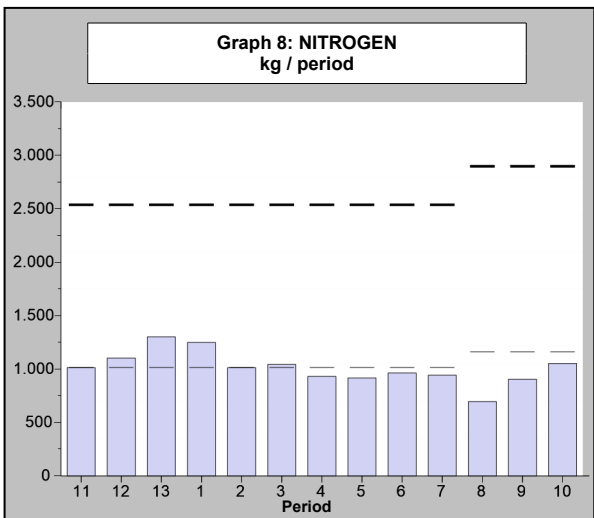
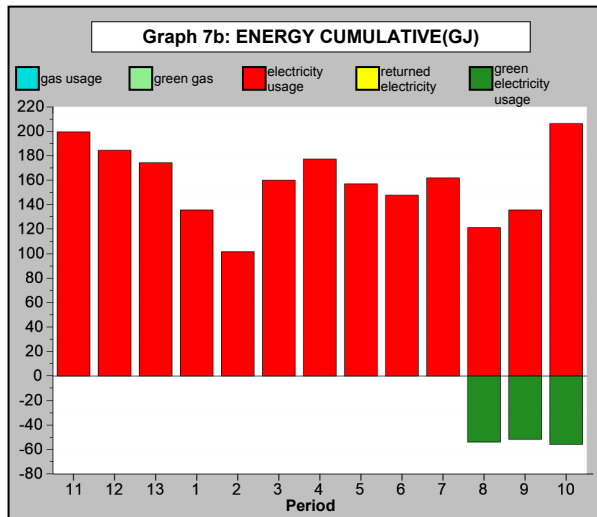
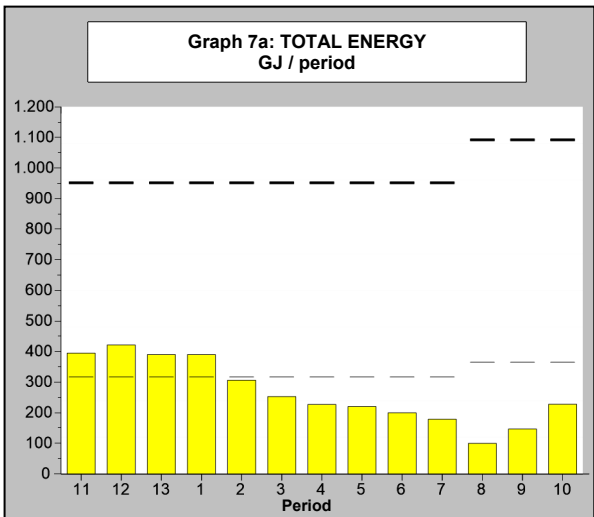
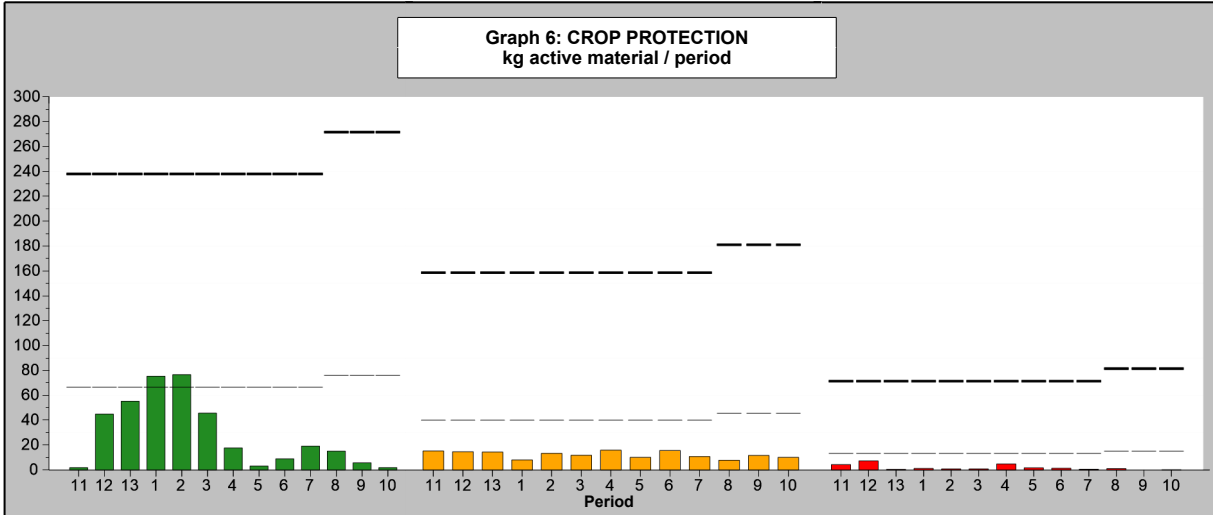


QUALIFICATION AND PERIOD GRAPHS

MPS company number: **792011/01**
 Company name: Luxaflor Roses (total)

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



MPS-Overview Composition of Qualification

MPS company number: **792011/01**
 Company name: Luxaflor Roses (total)

Valid: Period 11-2019 until Period 10-2020
 Version: 7-10-2020

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	170769,2 m2		
Area certified parental material MPS-ABC	43846,2 m2	2,6	10
Area certified parental material GLOBALGAP	0 m2	0	5
Total points for Certified parental material		2,6	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 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 1	Zone 1	Zone 1

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Abamectine	●	abamectin		0,543	
Acetamark 20 SP	●	acetamiprid	0,436		
Agil 100 EC	●	propaquizafop	0,650		
Aketchi 260 SL	●	emamectin benzoate		0,044	
	○	plant extract			
Aluminium sulphate	○	aluminium sulphate			
Alvarion 50 WDG	●	boscalid	7,837		
Applegreen EP599	○	acid blue			
Barco 532 (General Purpose Deterge	○	washing soap			
Barco 541 Liquid Bleach (Sodium Hy	○	sodium hypochlorite			
Barco 564 (Superior Liquid Detergent	○	washing soap			
Belt	●	flubendiamide	2,226		
Benevia 100 OD	●	cyantraniliprole	0,288		
Blast Super	●	acetamiprid	2,032		
	●	emamectin benzoate		0,813	
Bravo 500 (80-B-7-3)	●	chlorothalonil	10,985		
Chess 50 WG	●	pymetrozine		1,295	
Confidor 500SC (95-D-142-3)	●	imidacloprid			1,854
Delegate 250 WG	●	spinetoram	0,100		
Dipel DF	○	bacillus thuringiensis			
Evito T	●	fluoxastrobin	0,369		
	●	tebuconazole		0,511	
Glyfosate 360	●	glyphosate-isopropyl ammonium	15,580		
HTH	○	sodium hypochlorite			
Hurricane 500 WDG	●	emamectin benzoate		2,380	
	●	lufenuron			9,520
Hydrogen Peroxide 40%	○	hydrogen peroxide			
Karate (86-D-136-1)	●	lambda-cyhalothrin		1,995	
Kobe 1.2 SC	○	plant extract			
Kumulus D.F. (96-B-3-14)	○	sulfur/sulphur			
Levo 2.4 SL	●	oxymatrine		0,683	
Lime sulphur (72-B-3-3)	○	sulfur/sulphur			
	○	sulfur/sulphur			
Match 050 EC	●	lufenuron			1,470
Melody Duo 69 WG	●	iprovalicarb	1,391		
	●	propineb	9,270		
Nimrod 25EC (92-B-64-1)	●	bupirimate		0,035	

MPS-Overview Composition of Qualification

MPS company number: **792011/01**
 Company name: Luxaflor Roses (total)

Valid: Period 11-2019 until Period 10-2020
 Version: 7-10-2020

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Oberon	●	spiromesifen	1,680		
Okida SC	●	azoxystrobin		0,318	
	○	plant extract			
Orizon	●	abamectin		1,547	
	●	acetamiprid	7,735		
Ortiva	●	azoxystrobin		5,299	
Othello Top	● until period 10	azoxystrobin		2,553	
	● from period 11	azoxystrobin	0,100		
	●	difenoconazole			1,658
Phosguard 400 SL	●	potassium phosphite	267,464		
Previcur N 72EC (L339N)	●	propamocarb hydrochloride	19,062		
Pride	●	fenazaquin		8,000	
Prosper	●	spiroxamine		121,385	
Prove 1.92 EC	●	emamectin benzoate		2,359	
RO 208	○	heptamethyltrisiloxane			
Rovral 250EC FL (88-B-36-2)	●	iprodione			7,983
Seradix B No.2 (81-G-6-3)	●	indolylbutyric acid	0,024		
Shavit	●	triadimenol		8,750	
Silwet Gold	○	heptamethyltrisiloxane			
Silwet L 77	○	heptamethyltrisiloxane			
Smite	●	etoxazole	6,162		
Steward 150 EC	● until period 10	indoxacarb	0,208		
	● from period 11	indoxacarb		0,011	
Super Dash	●	acetamiprid	0,008		
	●	emamectin benzoate		0,019	
Thunder	●	beta-cyfluthrin		1,045	
	●	imidacloprid			2,323
Twist 500 SC	●	trifloxistrobin	17,695		
Victory 72 WP	●	mancozeb	0,384		
	●	metalaxyl		0,048	
Annual company use of active substance			371,683	159,631	24,806

OVERVIEW RECORDED DATA

MPS company number: **792011/01**

Company name: Luxaflor Roses (total)

Valid: Period 11-2019 until Period 10-2020

Version: 7-10-2020

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										
3231	Abamectine	ml	23850				1200	5100	30150	30150
3329	Acetamark 20 SP	gram								2182
3266	Agil 100 EC	ml					1000		1000	6500
3497	Aketchi 260 SL	ml						413	413	4413
3191	Aluminium sulphate	gram	220000	168000	142000	254000	142000	190000	1116000	2930000
3495	Alvarion 50 WDG	gram		13440	80		600		14120	15674
3479	Applegreen EP599	gram	100	200	200	850			1350	2550
3477	Barco 532 (General Purpose Detergent Powder)	gram	25000	29800	23400	39000	32200	35400	184800	415000
3478	Barco 541 Liquid Bleach (Sodium Hypochlorite 5%)	ml	10000	25000	7000	14700	2000	15300	74000	233500
3476	Barco 564 (Superior Liquid Detergent)	ml	51000	59000	47000	48000	40500	50000	295500	811000
3330	Belt	ml								4638
3499	Benevia 100 OD	ml		750				250	1000	2875
3494	Blast Super	ml	4500						4500	40631
3164	Bravo 500 (80-B-7-3)	ml								21969
3429	Chess 50 WG	gram	200	200			1340		1740	2590
3094	Confidor 500SC (95-D-142-3)	ml		750					750	9270
3419	Delegate 250 WG	gram								400
3344	Dipel DF	gram	2725						2725	13475
3491	Evito T	ml								1846
3403	Glyphosate 360	ml								38000
3230	HTH	gram	20250	10000	13250	9500	5500	12000	70500	261000
3481	Hurricane 500 WDG	gram	3900						3900	23800
3424	Hydrogen Peroxide 40%	ml			2500	15450	5500		23450	131500
3091	Karate (86-D-136-1)	ml	1050	5900	3000	3500	5325	7125	25900	39890
3467	Kobe 1.2 SC	ml								14350
3021	Kumulus D.F. (96-B-3-14)	gram					60000	71000	131000	131000
3359	Levo 2.4 SL	ml	19408	805					20213	28452
3044	Lime sulphur (72-B-3-3)	ml	17000	7500				250	24750	49750
3270	Match 050 EC	ml								29405
3337	Melody Duo 69 WG	gram	200						200	15450
3178	Nimrod 25EC (92-B-64-1)	ml								140
3339	Oberon	ml								7000
3498	Okida SC	ml								2446
3492	Orizon	ml								77346
3271	Ortiva	ml	11020	3980					15000	21194
3447	Othello Top	ml		8200	3750	500			12450	13266

OVERVIEW RECORDED DATA (Continued)

MPS company number: 792011/01

Valid: Period 11-2019 until Period 10-2020

Company name: Luxaflor Roses (total)

Version: 7-10-2020

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal	Year total
CROP PROTECTION AGENTS (Continued)										
3291	Phosguard 400 SL	ml			24900	22000	6000		52900	477615
3038	Previcur N 72EC (L339N)	ml	3018	3000	5854				11872	26475
3315	Pride	ml								40000
3311	Prosper	ml	11575	24520	19655	14575	20555	18605	109485	242769
3380	Prove 1.92 EC	ml	2000	18100	1900	18425	22158	16869	79452	122860
3493	RO 208	ml	28900	580	149200	750			179430	476035
3092	Rovral 250EC FL (88-B-36-2)	ml	600	800	400	4200		800	6800	31930
3199	Seradix B No.2 (81-G-6-3)	gram	2000	1800	1800				5600	8000
3261	Shavit	gram								35000
3332	Silwet Gold	ml	500	100000			100560	145100	346160	876440
3342	Silwet L 77	ml				100040			100040	100040
3316	Smite	ml			1940	1813	3825	19040	26618	61618
3451	Steward 150 EC	ml			375			73	448	1458
3496	Super Dash	ml								381
3361	Thunder	ml								23225
3353	Twist 500 SC	ml	1235		1513	5145	3343		11236	35389
3469	Victory 72 WP	gram								600
WATER										
21	Total irrigation	m3	2145	2013	1708	1648	2008	2045	11567	107184
ENERGY										
4	Electricity usage (Total)	kWh	17456	16424	17992	13480	15080	22936	103368	229293
54	Diesel oil/fuel	litre	1787	1470	480	915	1775	2175	8602	43847
6	Green Electricity Usage	kWh				6000	5750	6200	17950	17950
FERTILIZERS										
513	Ammonium Nitrate	kg	1210,5	1289,26	1452,57	779,03	1205,52	1483,18	7420,06	14220,58
545	Calcium Nitrate	kg	1032,6	1093,1	909,46	792,9	935,96	1052,69	5816,71	9952,88
633	Compound C 6+17+15	kg				100			100	300
634	Compound D 8+14+7	kg	5		10	49			64	121
635	Compound J 15+5+20	kg						17	17	187
733	Elfer Micromax	kg	10,25	11,2	9,3	7,56	4,68	3,72	46,71	64,21
752	Fe EDTA 13%	kg	117,32	124,96	106,88	100,72	120,2	162,5	732,58	1721,94
744	Hidrospoor	kg				154,428	147,15	208,16	509,738	509,738
575	Manganese Sulphate	kg	69,7	69,25	53,76	48,68	68,11	95,37	404,87	659,37
580	Mono-Ammonium Phosphate 12+61+0	kg	1023,78	1098,52	941,12	927,54	1032,93	1356,2	6380,09	10461,21

OVERVIEW RECORDED DATA (Continued)

MPS company number: **792011/01**

Valid: Period 11-2019 until Period 10-2020

Company name: Luxaflor Roses (total)

Version: 7-10-2020

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

691	Muriate of Potash	kg	1516,68	1599,32	1422,9	1283,52	1553,43	1799,71	9175,56	16140,67
656	Nitric Acid 55%	litre	528	489,28	453,696	456,088	532,856	878,93	3338,85	20058,69
754	Omnispor	litre	168,42	185,38	155,45				509,25	1737,092
333	Phosphoric Acid 59%	litre								2278,494
710	Potassium Nitrate (Multi-K) 13.5+0+46	kg	1095,3	1155,05	980,6	891,89	1116,66	690,94	5930,44	18177,06
539	Potassium Sulphate	kg				822,49			822,49	7465,8
766	Sulphuric Acid 98%	kg	750,24	684,91	576,2	569,02	624,38	1016,48	4221,23	11254,59
897	Veni Biosulfur	litre			119,4			7400	7519,4	7549,4
604	Zincsulphate	kg	18,48	19,804	16,761	14,25	17,712	35,259	122,266	210,035

ENVIRONMENTAL CLUSTERS

Indoor crops										
2014	ROSE	m2	165000	165000	165000	188000	188000	188000		
2130	ARBORICULTURE	m2				2000	2000	2000		
Subtotal			165000	165000	165000	190000	190000	190000		
Certified parental material										
661	MPS-ABC certif.parental mat.indoor	m2				190000	190000	190000		

GENERAL INFORMATION FORM

MPS-Mind

Surface water

3900 What is the minimum distance of these fields to the nearest surface water? > 2500 metres / > 8200 feet

Cover

3910 Does the surface of covered crops exceed 95% of this location? Yes

Slope

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

Leaching to groundwater

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

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

3905 What is the lowest percentage of organic matter of your soil on all your fields of this location? 1,5 - 3%

OVERVIEW RECORDED DATA (Continued)

MPS company number: 792011/01

Company name: Luxaflor Roses (total)

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GENERAL INFORMATION FORM

MPS-Mind

3906	What is the average annual rainfall? (if not known, enter nothing)	600 - 1500 mm annually / 23 - 59 inch
3907	How many months per year may be regarded as exceptionally dry (less than 2% of the annual precipitation)?	2 - 6 months
3908	What is the average day and night temperature over a whole year? (if not known, enter nothing)	> 20 degrees C / 68 degrees F on aver

Water management

45	Do you collect rainwater?	No
47	Do you collect leaking water while working with chemicals?	Yes
49	Do you record water use?	Yes
50	Do you use drip irrigation or recirculation?	Yes

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
44	Do you process chemical waste in a responsible way?	Yes

OVERVIEW RECORDED DATA

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FORM RECEIVED			yes	yes	yes	yes	yes	yes	yes	
CROP PROTECTION AGENTS										
3231	Abamectine	ml								
3329	Acetamark 20 SP	gram	1467	600	100		15			2182
3266	Agil 100 EC	ml			2000	1000	1000	1500		5500
3497	Aketchi 260 SL	ml					300	1410	2290	4000
3191	Aluminium sulphate	gram	274000	290000	410000	128000	256000	178000	278000	1814000
3495	Alvarion 50 WDG	gram	385	385	385			400		1555
3479	Applegreen EP599	gram	350	650	200					1200
3477	Barco 532 (General Purpose Detergent Powder)	gram	31800	40000	21400	32800	33000	46400	24800	230200
3478	Barco 541 Liquid Bleach (Sodium Hypochlorite 5%)	ml	11500	30000	10500	31500	11500	30500	34000	159500
3476	Barco 564 (Superior Liquid Detergent)	ml	55000	80500	68500	118500	61000	79500	52500	515500
3330	Belt	ml	450	500			1125	2563		4638
3499	Benevia 100 OD	ml					625		1250	1875
3494	Blast Super	ml	4615	4615	4615			9660	12625	36130
3164	Bravo 500 (80-B-7-3)	ml			100			21869		21969
3429	Chess 50 WG	gram		100				400	350	850
3094	Confidor 500SC (95-D-142-3)	ml	2291	4229		375	400	600	625	8520
3419	Delegate 250 WG	gram					400			400
3344	Dipel DF	gram	1500				2000	3500	3750	10750
3491	Evito T	ml	615	615	615					1845
3403	Glyphosate 360	ml			16000	16000		6000		38000
3230	HTH	gram	23000	15000	21000	30000	16000	39250	46250	190500
3481	Hurricane 500 WDG	gram	800	6800		900		600	10800	19900
3424	Hydrogen Peroxide 40%	ml			10875	43250	32400	16650	4875	108050
3091	Karate (86-D-136-1)	ml	13990							13990
3467	Kobe 1.2 SC	ml	1600		90	1725	185	10750		14350
3021	Kumulus D.F. (96-B-3-14)	gram								
3359	Levo 2.4 SL	ml	438	1888			2000	2163	1750	8239
3044	Lime sulphur (72-B-3-3)	ml					4500	20500		25000
3270	Match 050 EC	ml	4500	11125	1125	1375	5000		6280	29405
3337	Melody Duo 69 WG	gram					3150	11600	500	15250
3178	Nimrod 25EC (92-B-64-1)	ml	140							140
3339	Oberon	ml						500	6500	7000
3498	Okida SC	ml						1951	495	2446
3492	Orizon	ml	6615	6615	6615		41250	16250		77345
3271	Ortiva	ml		730			840	4624		6194
3447	Othello Top	ml	816							816

OVERVIEW RECORDED DATA (Continued)

MPS company number: **792011/01**

Valid: Period 11-2019 until Period 10-2020

Company name: Luxaflor Roses (total)

Version: 7-10-2020

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal
CROP PROTECTION AGENTS (Continued)										
3291	Phosguard 400 SL	ml		74065	80000	118000	111800	30200	10650	424715
3038	Previcur N 72EC (L339N)	ml			400	1043	7360	3400	2400	14603
3315	Pride	ml	28275	11575				150		40000
3311	Prosper	ml	11500	17825	24515	15585	20624	15040	28195	133284
3380	Prove 1.92 EC	ml	8700	18150	4045	1118		1200	10195	43408
3493	RO 208	ml	35462	35462	35462		39700	57600	92920	296606
3092	Rovral 250EC FL (88-B-36-2)	ml	11390	9740	400	1400	600	1200	400	25130
3199	Seradix B No.2 (81-G-6-3)	gram	600	1200					600	2400
3261	Shavit	gram	8925	5575	6125	125	7000	7250		35000
3332	Silwet Gold	ml	107680	119125	105650	99925	47400	50000	500	530280
3342	Silwet L 77	ml								
3316	Smite	ml		18000	17000					35000
3451	Steward 150 EC	ml	1010							1010
3496	Super Dash	ml	77	77	77			150		381
3361	Thunder	ml	3450	7850	2770	3230	3675	2250		23225
3353	Twist 500 SC	ml		150	788	3320	2980	2190	14725	24153
3469	Victory 72 WP	gram				400	200			600
WATER										
21	Total irrigation	m3	25740	23760	17325	22275	1968	2341	2210	95619
ENERGY										
4	Electricity usage (Total)	kWh	22169	20505	19378	15088	11300	17780	19704	125924
54	Diesel oil/fuel	litre	5510	6684	6082	7170	5770	2620	1409	35245
6	Green Electricity Usage	kWh								
FERTILIZERS										
513	Ammonium Nitrate	kg		10	1543,52	1450,64	1146,15	1376,95	1273,26	6800,52
545	Calcium Nitrate	kg	436,8	378,6	287,76	503,88	454,91	1113,17	961,05	4136,17
633	Compound C 6+17+15	kg	150			50				200
634	Compound D 8+14+7	kg		42	5		5	5		57
635	Compound J 15+5+20	kg	25		25	27	35	58		170
733	Elfer Micromax	kg							17,5	17,5
752	Fe EDTA 13%	kg	134,6	160,1	137,34	177,3	123,38	136,58	120,06	989,36
744	Hidrospoor	kg								
575	Manganese Sulphate	kg			29,52	64,48	15,2	77,44	67,86	254,5
580	Mono-Ammonium Phosphate 12+61+0	kg			351,45	814,66	699,26	1147,86	1067,89	4081,12

OVERVIEW RECORDED DATA (Continued)

MPS company number: **792011/01**

Valid: Period 11-2019 until Period 10-2020

Company name: Luxaflor Roses (total)

Version: 7-10-2020

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

691	Muriate of Potash	kg			630	1666,35	1396,3	1694,35	1578,11	6965,11
656	Nitric Acid 55%	litre	3768,6	3853,04	2894,3	2875,2	2252,06	553,92	522,72	16719,84
754	Omnispor	litre	311,5	216,43	122,24	135,3	78,41	189,807	174,155	1227,842
333	Phosphoric Acid 59%	litre	617,391	1063,349	597,754					2278,494
710	Potassium Nitrate (Multi-K) 13.5+0+46	kg	2649	3336,9	1863,37	1048,83	929,86	1321,79	1096,87	12246,62
539	Potassium Sulphate	kg	3276,6	2368,2	998,51					6643,31
766	Sulphuric Acid 98%	kg		162	936,1	2631,2	1908,8	689,7	705,56	7033,36
897	Veni Biosulfur	litre	10	10	10					30
604	Zincsulphate	kg		2,5	9,965	21,22	17,864	19,51	16,71	87,769

ENVIRONMENTAL CLUSTERS

Indoor crops										
2014	ROSE	m2	165000	165000	165000	165000	165000	165000	165000	
2130	ARBORICULTURE	m2								
	Subtotal		165000	165000	165000	165000	165000	165000	165000	
Certified parental material										
661	MPS-ABC certif.parental mat.indoor	m2								

CO2 Indicator

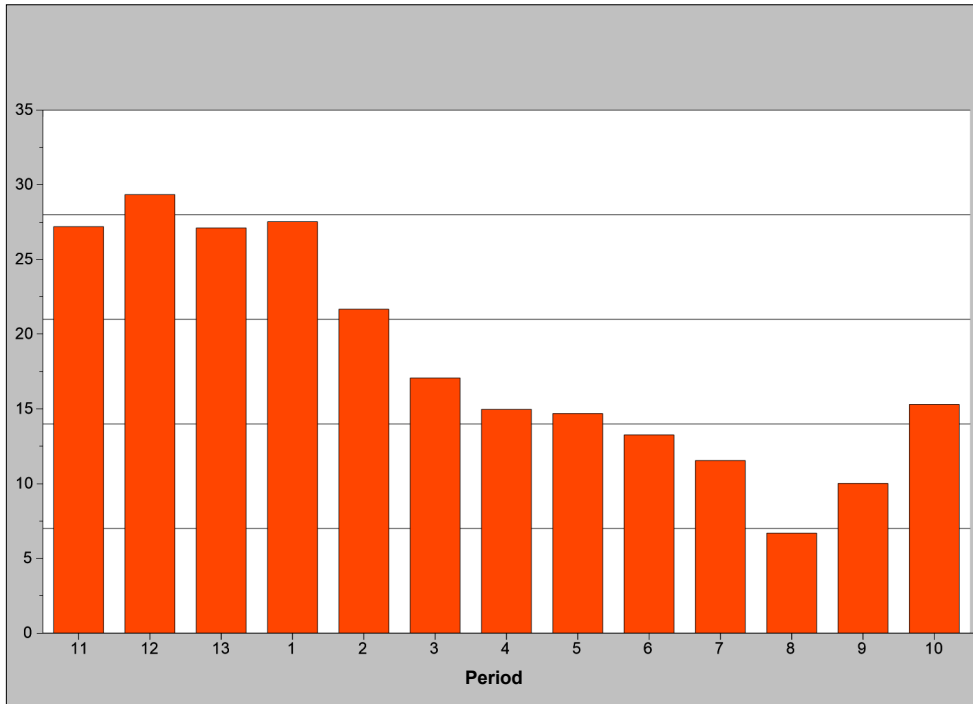
MPS company number: **792011/01**
 Company name: Luxaflor Roses

Valid: Period 11-2019 until Period 10-2020
 Version: 7-10-2020

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

Code		CO2 production (x 1000)
4	Electricity usage (Total)	131
54	Diesel oil/fuel	116
6	Green Electricity Usage	-10
Total		237

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.