

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

Validity: **18-5-2020 until 9-8-2020**
Total points: **93,2**
Qualification: **A+**

Kind regards,
MPS-ECAS

Signature:

Date of issue:
20-4-2020



Ing. C. Maas

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

MPS-ECAS
Certification



QUALIFICATION AND PERIOD GRAPHS

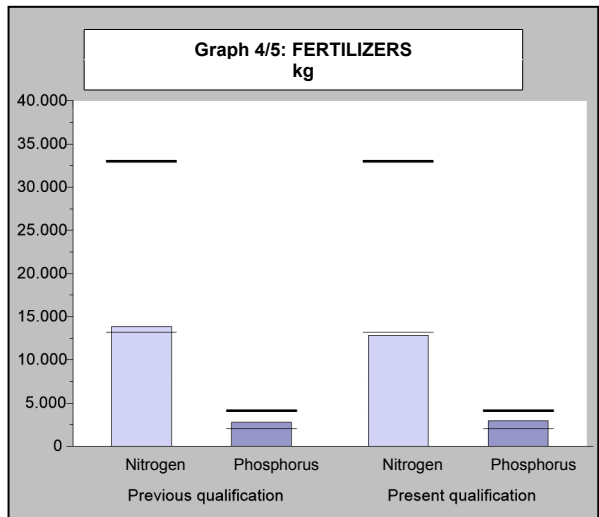
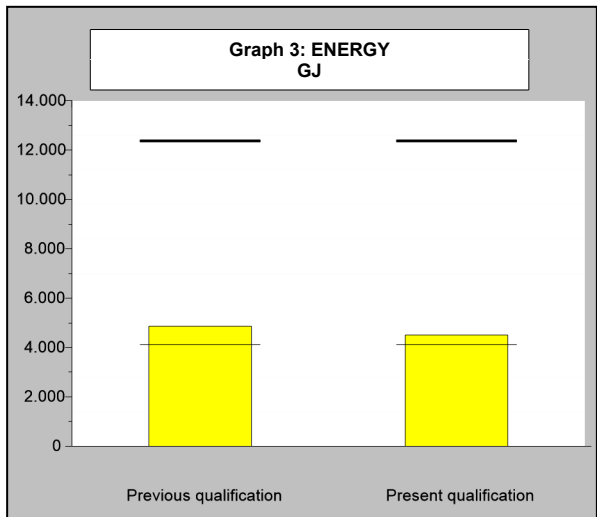
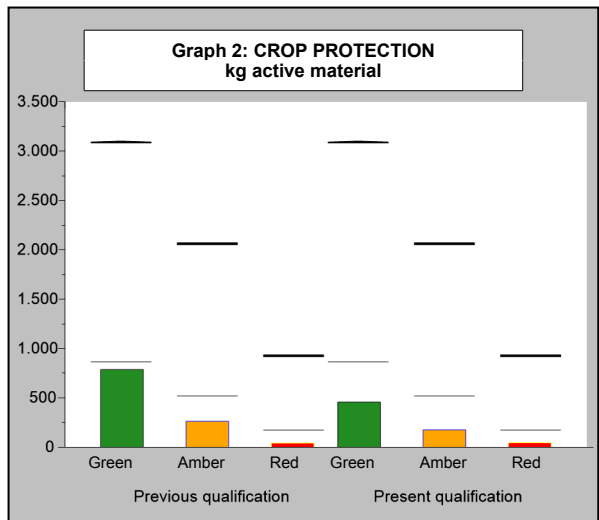
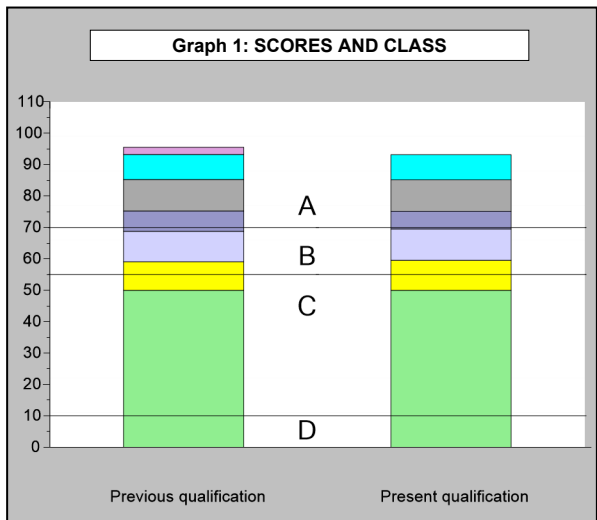
MPS company number: **792011/01**
 Company name: Luxaflor Roses (total)

Valid: Period 5-2019 until Period 4-2020
 Version: 20-4-2020

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	866,3-3093,7 kg	457,6	15	15			
	Amber	519,7-2062,5 kg	178	20	20			
	Red	173,3-928,1 kg	45,8	15	15			
total				50	50	85 %	100 %	yes
Energy total		4125-12375 GJ	4507,4	9,5	10	75 %	95,3 %	yes
Fertilizers	Nitrogen	13200-33000 kg	12851,4	10	10			
	Phosphorus	2062,5-4125 kg	2962,6	5,6	10			
total				15,6	20	75 %	78,1 %	yes
Waste		0-130	130	10	10			
Water		0-130	104	8	10			
Certified parental material				0	10			
Total score (points)				93,2	110	90	93,2	yes
COMPANY QUALIFICATION				A+				

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

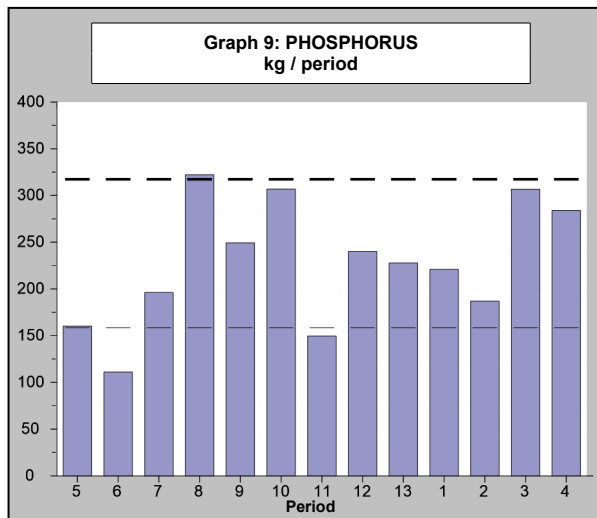
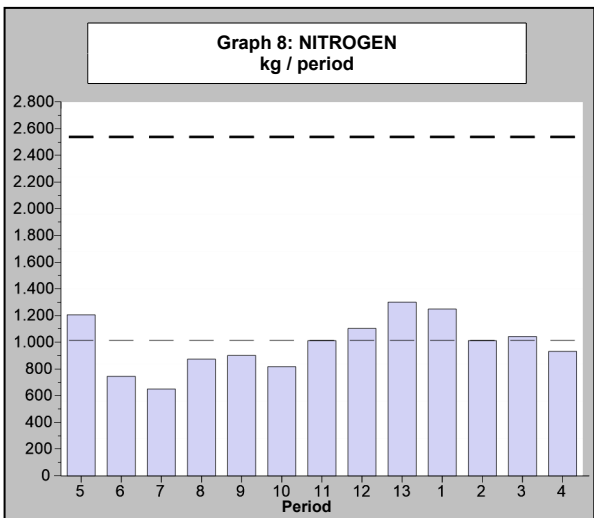
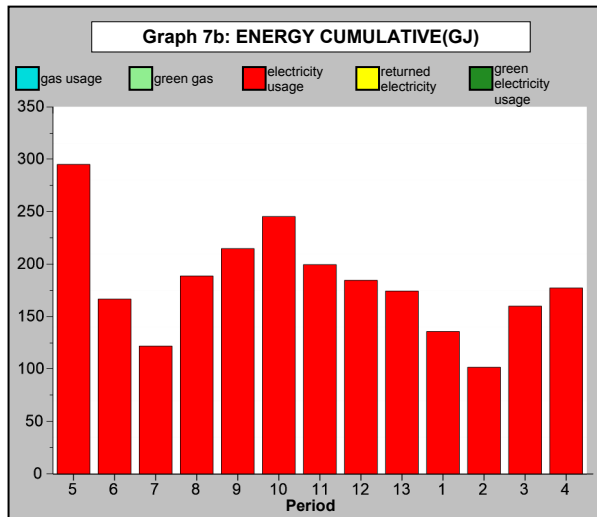
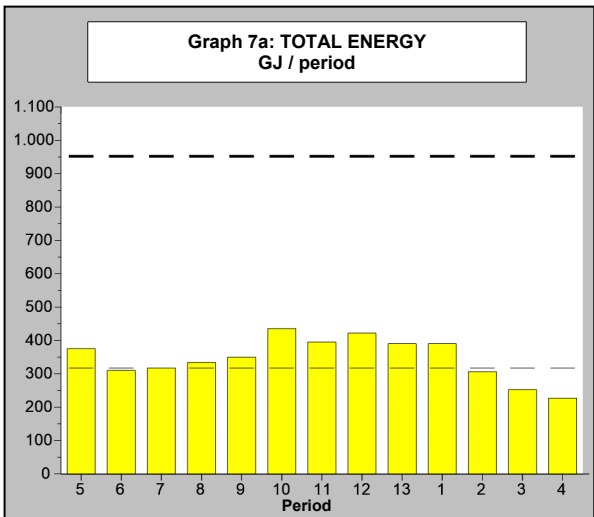
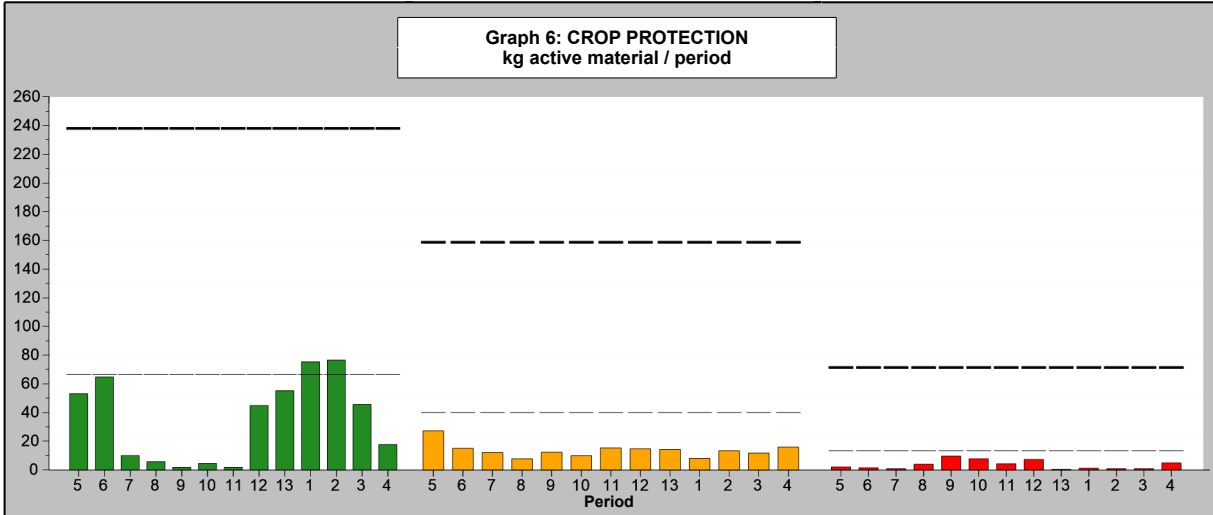


QUALIFICATION AND PERIOD GRAPHS

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

Valid: Period 5-2019 until Period 4-2020
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<-----> = Upperlimit <.....> = Lowerlimit



MPS-Overview Composition of Qualification

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

Valid: Period 5-2019 until Period 4-2020
 Version: 20-4-2020

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	165000 m2		
Area certified parental material MPS-ABC	0 m2	0	10
Area certified parental material GLOBALGAP	0 m2	0	5
Total points for Certified parental material		0	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	5	6	7	8	9	10	11	12	13	1	2	3	4
Environmental	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Abamectine	●	abamectin		0,003	
Acetamark 20 SP	●	acetamiprid	1,386		
Agil 100 EC	●	propaquizafop	0,600		
Aketchi 260 SL	●	emamectin benzoate		0,040	
	○	plant extract			
Aluminium sulphate	○	aluminium sulphate			
Alvarion 50 WDG	●	boscalid	1,931		
Apollo 50SC (85-D-129-2)	●	clofentezin		6,700	
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	2,442		
Benevia 100 OD	●	cyantranilprole	0,188		
Blast Super	●	acetamiprid	3,191		
	●	emamectin benzoate		1,276	
Bravo 500 (80-B-7-3)	●	chlorothalonil	13,385		
Cascade (92-D-146-1)	●	flufenoxuron	4,225		
Chess 50 WG	●	pymetrozine		0,425	
Confidor 500SC (95-D-142-3)	●	imidacloprid			3,971
Delegate 250 WG	●	spinetoram	0,500		
Dipel DF	○	bacillus thuringiensis			
Evito T	●	fluoxastrobin	1,108		
	●	tebuconazole		1,534	
Glyfosate 360	●	glyphosate-isopropyl ammonium	19,885		
HTH	○	sodium hypochlorite			
Hurricane 500 WDG	●	emamectin benzoate		2,940	
	●	lufenuron			11,760
Hydrogen Peroxide 40%	○	hydrogen peroxide			
Karate (86-D-136-1)	●	lambda-cyhalothrin		3,783	
Kobe 1.2 SC	○	plant extract			
Levo 2.4 SL	●	oxymatrine		0,198	
Lime sulphur (72-B-3-3)	○	sulfur/sulphur			
Match 050 EC	●	lufenuron			2,130
Melody Duo 69 WG	●	iprovalicarb	3,841		
	●	propineb	25,608		
Nimrod 25EC (92-B-64-1)	●	bupirimate		7,575	

MPS-Overview Composition of Qualification

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

Valid: Period 5-2019 until Period 4-2020
 Version: 20-4-2020

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		2,341	
	●	acetamiprid	11,704		
Ortiva	●	azoxystrobin		2,461	
Othello Top	●	azoxystrobin		2,400	
	●	difenoconazole			1,500
Phosguard 400 SL	●	potassium phosphite	319,298		
Previcur N 72EC (L339N)	●	propamocarb hydrochloride	15,356		
Pride	●	fenazaquin		8,000	
Prosper	●	spiroxamine		116,695	
Prove 1.92 EC	●	emamectin benzoate		2,273	
RO 208	○	heptamethyltrisiloxane			
Rovral 250EC FL (88-B-36-2)	●	iprodione			24,150
Seradix B No.2 (81-G-6-3)	●	indolybutyric acid	0,020		
Shavit	●	triadimenol		16,988	
Silwet Gold	○	heptamethyltrisiloxane			
Smite	●	etoxazole	11,038		
Steward 150 EC	●	indoxacarb	0,258		
Super Dash	●	acetamiprid	0,017		
	●	emamectin benzoate		0,042	
Terminator	●	didecyldimethylammonium chlori	0,250		
Thunder	●	beta-cyfluthrin		1,045	
	●	imidacloprid			2,323
Twist 500 SC	●	trifloxistrobin	12,077		
Victory 72 WP	●	mancozeb	7,584		
	●	metalaxyl		0,948	
Annual company use of active substance			457,570	177,984	45,833

OVERVIEW RECORDED DATA

MPS company number: **792011/01**

Company name: Luxaflor Roses (total)

Valid: Period 5-2019 until Period 4-2020

Version: 20-4-2020

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal	Year total
FORM RECEIVED			yes	yes	yes	yes	yes	yes	yes		
CROP PROTECTION AGENTS											
3231	Abamectine	ml									155
3329	Acetamark 20 SP	gram	1467	600	100		15			2182	6932
3266	Agil 100 EC	ml			2000	1000	1000	1500		5500	6000
3497	Aketchi 260 SL	ml					300	1410	2290	4000	4000
3191	Aluminium sulphate	gram	274000	290000	410000	128000	256000	178000	278000	1814000	3042000
3495	Alvarion 50 WDG	gram	385	385	385			400		1555	3862
3157	Apollo 50SC (85-D-129-2)	ml									13400
3479	Applegreen EP599	gram	350	650	200					1200	4780
3477	Barco 532 (General Purpose Detergent Powder)	gram	31800	40000	21400	32800	33000	46400	24800	230200	433200
3478	Barco 541 Liquid Bleach (Sodium Hypochlorite 5%)	ml	11500	30000	10500	31500	11500	30500	34000	159500	254000
3476	Barco 564 (Superior Liquid Detergent)	ml	55000	80500	68500	118500	61000	79500	52500	515500	790900
3330	Belt	ml	450	500			1125	2563		4638	5088
3499	Benevia 100 OD	ml					625		1250	1875	1875
3494	Blast Super	ml	4615	4615	4615			9660	12625	36130	63823
3164	Bravo 500 (80-B-7-3)	ml			100			21869		21969	26769
3105	Cascade (92-D-146-1)	ml									84500
3429	Chess 50 WG	gram		100				400	350	850	850
3094	Confidor 500SC (95-D-142-3)	ml	2291	4229		375	400	600	625	8520	19855
3419	Delegate 250 WG	gram					400			400	2000
3344	Dipel DF	gram	1500				2000	3500	3750	10750	12000
3491	Evito T	ml	615	615	615					1845	5538
3403	Glyfosate 360	ml			16000	16000		6000		38000	48500
3230	HTH	gram	23000	15000	21000	30000	16000	39250	46250	190500	270500
3481	Hurricane 500 WDG	gram	800	6800		900		600	10800	19900	29400
3424	Hydrogen Peroxide 40%	ml			10875	43250	32400	16650	4875	108050	227545
3091	Karate (86-D-136-1)	ml	13990							13990	75665
3467	Kobe 1.2 SC	ml	1600		90	1725	185	10750		14350	14750
3359	Levo 2.4 SL	ml	438	1888			2000	2163	1750	8239	8239
3044	Lime sulphur (72-B-3-3)	ml					4500	20500		25000	317000
3270	Match 050 EC	ml	4500	11125	1125	1375	5000		6280	29405	42600
3337	Melody Duo 69 WG	gram					3150	11600	500	15250	42680
3178	Nimrod 25EC (92-B-64-1)	ml	140							140	30300
3339	Oberon	ml						500	6500	7000	7000
3498	Okida SC	ml						1951	495	2446	2446
3492	Orizon	ml	6615	6615	6615		41250	16250		77345	117038
3271	Ortiva	ml		730			840	4624		6194	9846

OVERVIEW RECORDED DATA (Continued)

MPS company number: 792011/01

Valid: Period 5-2019 until Period 4-2020

Company name: Luxaflor Roses (total)

Version: 20-4-2020

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal	Year total
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CROP PROTECTION AGENTS (Continued)

3447	Othello Top	ml	816							816	12001
3291	Phosguard 400 SL	ml		74065	80000	118000	111800	30200	10650	424715	570175
3038	Previcur N 72EC (L339N)	ml			400	1043	7360	3400	2400	14603	21328
3315	Pride	ml	28275	11575				150		40000	40000
3311	Prosper	ml	11500	17825	24515	15585	20624	15040	28195	133284	233389
3380	Prove 1.92 EC	ml	8700	18150	4045	1118		1200	10195	43408	118396
3493	RO 208	ml	35462	35462	35462		39700	57600	92920	296606	509374
3092	Rovral 250EC FL (88-B-36-2)	ml	11390	9740	400	1400	600	1200	400	25130	96600
3199	Seradix B No.2 (81-G-6-3)	gram	600	1200					600	2400	6600
3261	Shavit	gram	8925	5575	6125	125	7000	7250		35000	67950
3332	Silwet Gold	ml	107680	119125	105650	99925	47400	50000	500	530280	1127560
3316	Smite	ml		18000	17000					35000	110376
3451	Steward 150 EC	ml	1010							1010	1720
3496	Super Dash	ml	77	77	77			150		381	842
3454	Terminator	ml									1000
3361	Thunder	ml	3450	7850	2770	3230	3675	2250		23225	23225
3353	Twist 500 SC	ml		150	788	3320	2980	2190	14725	24153	24153
3469	Victory 72 WP	gram				400	200			600	11850

WATER

21	Total irrigation	m3	25740	23760	17325	22275	1968	2341	2210	95619	220958
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ENERGY

4	Electricity usage (Total)	kWh	22169	20505	19378	15088	11300	17780	19704	125924	262893
54	Diesel oil/fuel	litre	5510	6684	6082	7170	5770	2620	1409	35245	60325

FERTILIZERS

513	Ammonium Nitrate	kg		10	1543,52	1450,64	1146,15	1376,95	1273,26	6800,52	9687,36
545	Calcium Nitrate	kg	436,8	378,6	287,76	503,88	454,91	1113,17	961,05	4136,17	6859,36
633	Compound C 6+17+15	kg	150			50				200	500
634	Compound D 8+14+7	kg		42	5		5	5		57	1136
635	Compound J 15+5+20	kg	25		25	27	35	58		170	240
733	Elfer Micromax	kg							17,5	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	1577,18
575	Manganese Sulphate	kg			29,52	64,48	15,2	77,44	67,86	254,5	336,5
580	Mono-Ammonium Phosphate 12+61+0	kg			351,45	814,66	699,26	1147,86	1067,89	4081,12	5031,12

OVERVIEW RECORDED DATA (Continued)

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

581	Mono-Potassium Phosphate 0+51.5+34	kg									153
691	Muriate of Potash	kg			630	1666,35	1396,3	1694,35	1578,11	6965,11	11096,26
656	Nitric Acid 55%	litre	3768,6	3853,04	2894,3	2875,2	2252,06	553,92	522,72	16719,84	28846,88
754	Omnispor	litre	311,5	216,43	122,24	135,3	78,41	189,807	174,155	1227,842	2011,092
333	Phosphoric Acid 59%	litre	617,391	1063,349	597,754					2278,494	6618
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	25033,55
539	Potassium Sulphate	kg	3276,6	2368,2	998,51					6643,31	16266,71
766	Sulphuric Acid 98%	kg		162	936,1	2631,2	1908,8	689,7	705,56	7033,36	11082,36
897	Veni Biosulfur	litre	10	10	10					30	90
604	Zincsulphate	kg		2,5	9,965	21,22	17,864	19,51	16,71	87,769	120,164

ENVIRONMENTAL CLUSTERS

		Indoor crops							
2014	ROSE	m2	165000	165000	165000	165000	165000	165000	165000
		Subtotal	165000	165000	165000	165000	165000	165000	165000

GENERAL INFORMATION FORM

MPS-Mind

Surface water

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

Cover

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

Slope

3902 What is the maximum slope of a field in this part registration? 3 - 10%

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, taken over all your fields? 3 - 15 metres / 9,8 - 49,2 feet

3905 What is the lowest percentage of organic matter of your soil, taken over all your fields of this part registration? > 6%

3906 What is the average precipitation per annum? (if unknown, please leave blank) 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 unknown, please leave blank) < 20 degrees C / 68 degrees F

OVERVIEW RECORDED DATA (Continued)

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

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GENERAL INFORMATION FORM

Water management

45	Is rainwater being collected?	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	Is organic waste being processed in a responsible way?	Yes
42	Is paper being processed in a responsible way?	Yes
43	Is plastic being processed in a responsible way?	Yes
44	Is chemical waste being processed in a responsible way?	Yes

OVERVIEW RECORDED DATA

MPS company number: **792011/01**

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Valid: Period 5-2019 until Period 4-2020

Version: 20-4-2020

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal
FORM RECEIVED			yes	yes	yes	yes	yes	yes	
CROP PROTECTION AGENTS									
3231	Abamectine	ml				155			155
3329	Acetamark 20 SP	gram	650	1312	1688	985	50	65	4750
3266	Agil 100 EC	ml		500					500
3497	Aketchi 260 SL	ml							
3191	Aluminium sulphate	gram	264000	228000	126000	222000	174000	214000	1228000
3495	Alvarion 50 WDG	gram	385	385	385	385	385	385	2310
3157	Apollo 50SC (85-D-129-2)	ml	13200			200			13400
3479	Applegreen EP599	gram	1380		200	400	800	800	3580
3477	Barco 532 (General Purpose Detergent Powder)	gram	45600	32800	34200	33000	32000	25400	203000
3478	Barco 541 Liquid Bleach (Sodium Hypochlorite 5%)	ml	13500	8500	10000	41000	9500	12000	94500
3476	Barco 564 (Superior Liquid Detergent)	ml	50900	28500	33000	43000	84500	35500	275400
3330	Belt	ml	450						450
3499	Benevia 100 OD	ml							
3494	Blast Super	ml	4615	4615	4615	4615	4615	4615	27690
3164	Bravo 500 (80-B-7-3)	ml	900		2100	1200	600		4800
3105	Cascade (92-D-146-1)	ml	29200	41400	13900				84500
3429	Chess 50 WG	gram							
3094	Confidor 500SC (95-D-142-3)	ml					3600	7735	11335
3419	Delegate 250 WG	gram			137			1463	1600
3344	Dipel DF	gram		750		500			1250
3491	Evito T	ml	615	615	615	615	615	615	3690
3403	Glyfosate 360	ml		6000		4500			10500
3230	HTH	gram		13000	33000	13000	6000	15000	80000
3481	Hurricane 500 WDG	gram	300		1200	1800	800	5400	9500
3424	Hydrogen Peroxide 40%	ml	18375	23875	44245	13625	19375		119495
3091	Karate (86-D-136-1)	ml	9570	2750	6375	11125	14500	17355	61675
3467	Kobe 1.2 SC	ml						400	400
3359	Levo 2.4 SL	ml							
3044	Lime sulphur (72-B-3-3)	ml	24500	42500	71500	69700	62800	21000	292000
3270	Match 050 EC	ml	70	250		1750	4250	6875	13195
3337	Melody Duo 69 WG	gram	23700	3230			500		27430
3178	Nimrod 25EC (92-B-64-1)	ml					30020	140	30160
3339	Oberon	ml							
3498	Okida SC	ml							
3492	Orizon	ml	6615	6615	6615	6615	6615	6615	39690
3271	Ortiva	ml	406	1623		811		811	3651

OVERVIEW RECORDED DATA (Continued)

MPS company number: 792011/01

Valid: Period 5-2019 until Period 4-2020

Company name: Luxaflor Roses (total)

Version: 20-4-2020

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal
CROP PROTECTION AGENTS (Continued)									
3447	Othello Top	ml	1750	3875	2750	2750		60	11185
3291	Phosguard 400 SL	ml	42000	94960	8500				145460
3038	Previcur N 72EC (L339N)	ml	2100	4625					6725
3315	Pride	ml							
3311	Prosper	ml	32405	23855	17080	10330	6435	10000	100105
3380	Prove 1.92 EC	ml	3550	13125	10650	9775	14550	23338	74988
3493	RO 208	ml	35462	35462	35462	35462	35462	35462	212772
3092	Rovral 250EC FL (88-B-36-2)	ml	7000	4000	100	11500	33850	15020	71470
3199	Seradix B No.2 (81-G-6-3)	gram	1800	600	600	600		600	4200
3261	Shavit	gram	8350	4625	7950	1525	750	9750	32950
3332	Silwet Gold	ml	147900	60800	78425	83275	120840	106040	597280
3316	Smite	ml	10375		16313	18688		30000	75376
3451	Steward 150 EC	ml	625	85					710
3496	Super Dash	ml	77	77	77	77	77	77	462
3454	Terminator	ml			1000				1000
3361	Thunder	ml							
3353	Twist 500 SC	ml							
3469	Victory 72 WP	gram	11250						11250
WATER									
21	Total irrigation	m3	18814	15840	17010	19600	22575	31500	125339
ENERGY									
4	Electricity usage (Total)	kWh	32787	18532	13540	20970	23867	27273	136969
54	Diesel oil/fuel	litre	2259	4035	5514	4104	3807	5361	25080
FERTILIZERS									
513	Ammonium Nitrate	kg	1656,32	1106,8	75	22,72		26	2886,84
545	Calcium Nitrate	kg	1006,7	355,39	265,52	293,26	350	452,32	2723,19
633	Compound C 6+17+15	kg			154	146			300
634	Compound D 8+14+7	kg	200		150	150	554	25	1079
635	Compound J 15+5+20	kg	20			50			70
733	Elfer Micromax	kg							
752	Fe EDTA 13%	kg	126,07	59,77	66,49	84,39	109,44	141,66	587,82
575	Manganese Sulphate	kg	67,7	14,3					82
580	Mono-Ammonium Phosphate 12+61+0	kg	555,2	394,8					950

OVERVIEW RECORDED DATA (Continued)

MPS company number: **792011/01**

Valid: Period 5-2019 until Period 4-2020

Company name: Luxaflor Roses (total)

Version: 20-4-2020

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal
FERTILIZERS (Continued)									
581	Mono-Potassium Phosphate 0+51.5+34	kg			3	150			153
691	Muriate of Potash	kg	2290,5	1840,65					4131,15
656	Nitric Acid 55%	litre	1449,6	738,24	2573	2482,2	2587,2	2296,8	12127,04
754	Omnispoor	litre	225,4	149,1	66,52	91,34	109,44	141,45	783,25
333	Phosphoric Acid 59%	litre		27,44	783,242	1197,019	965,034	1366,772	4339,507
710	Potassium Nitrate (Multi-K) 13.5+0+46	kg	1396,94	1184,24	1257,15	3065,6	3025	2858	12786,93
539	Potassium Sulphate	kg		50,4	1356,9	2198,7	2625	3392,4	9623,4
766	Sulphuric Acid 98%	kg	2774,55	1274,45					4049
897	Veni Biosulfur	litre	10	10	10	10	10	10	60
604	Zincsulphate	kg	18,01	14,385					32,395

ENVIRONMENTAL CLUSTERS

2014 ROSE	Indoor crops								
	m2	165000	165000	165000	165000	165000	165000	165000	
	Subtotal	165000	165000	165000	165000	165000	165000	165000	

CO2 Indicator

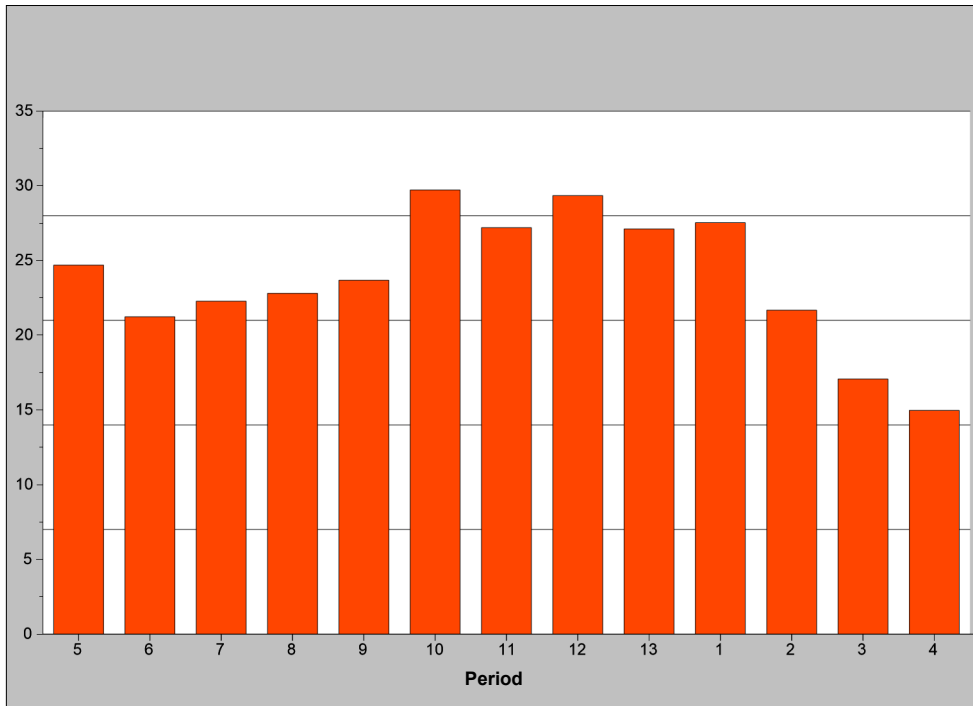
MPS company number: **792011/01**
 Company name: Luxaflor Roses

Valid: Period 5-2019 until Period 4-2020
 Version: 20-4-2020

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

Code		CO2 production (x 1000)
54	Diesel oil/fuel	159
4	Electricity usage (Total)	150
Total		309

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.