



Technovation

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Decision Farming

Erik de Vries



Photo Credit: Dealer PROGRESS Magazine



Grid sampling guided by GPS gives more accurate soil test data.

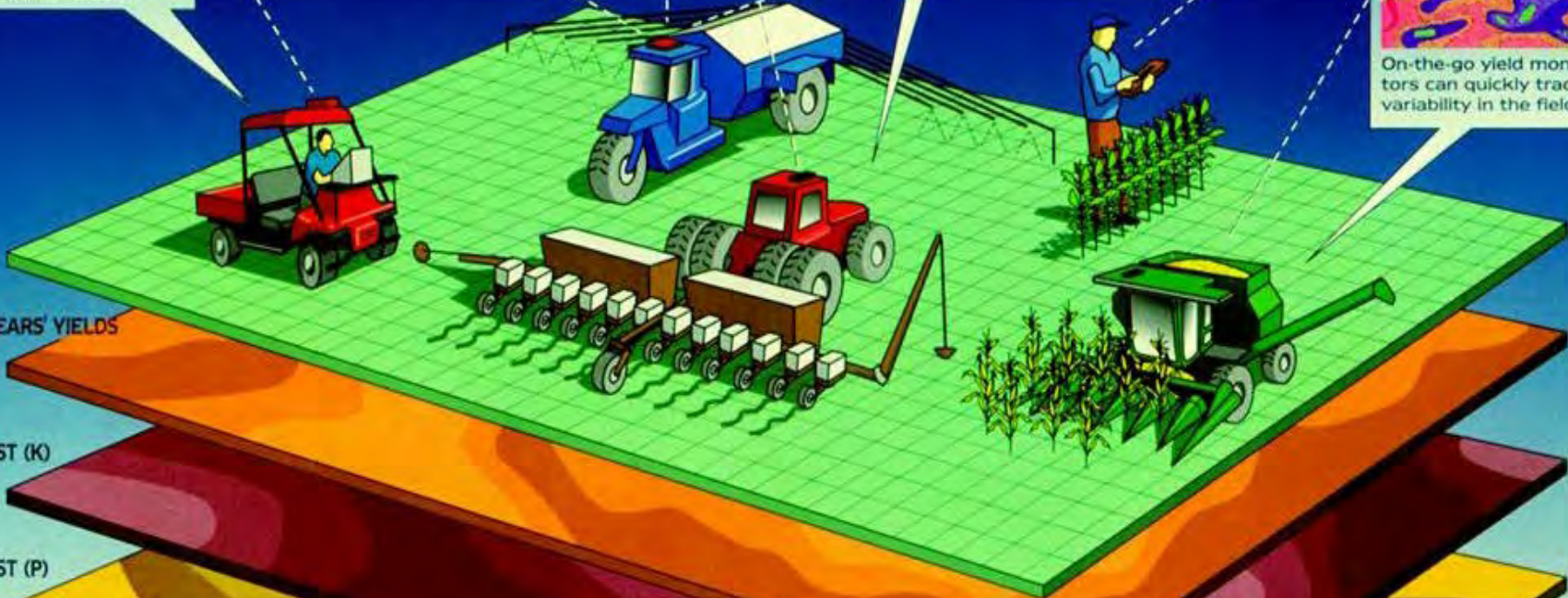
Variable rate fertilizer application can improve efficiency.

Variable rate seeding, variety changes and starter can adjust for soil properties and productivity.

Crop scouting with new technology improves field records.



On-the-go yield monitors can quickly track variability in the field.



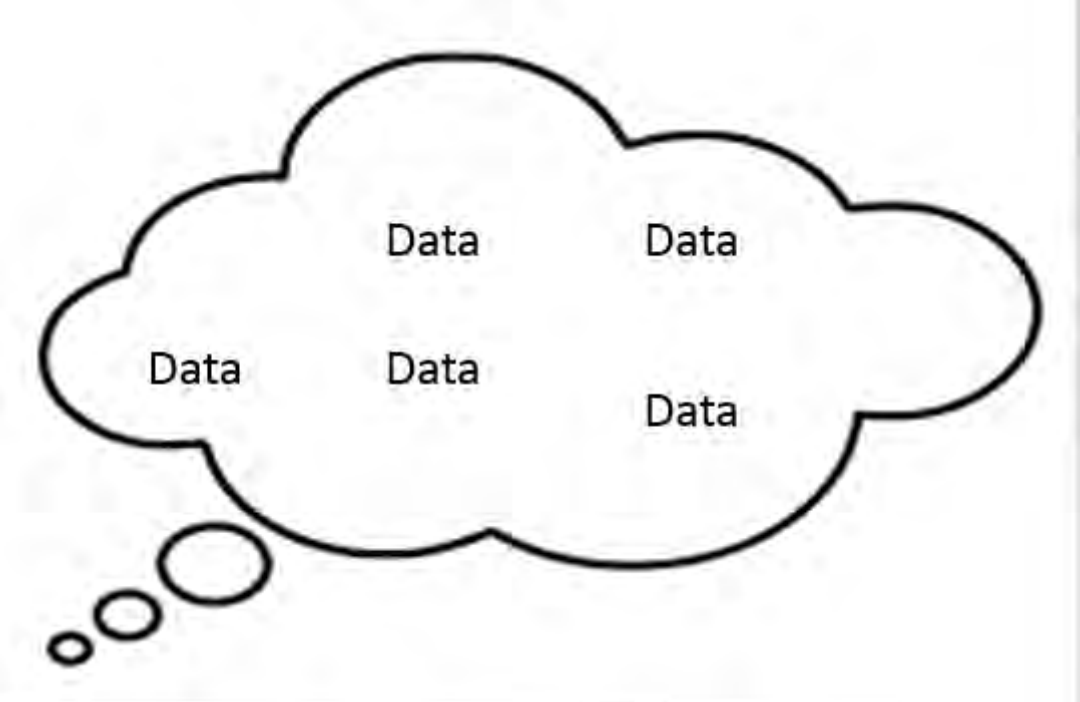
PAST YEARS' YIELDS

SOIL TEST (K)

SOIL TEST (P)

SOIL MAP

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1																				
2	BESTELLING GLUKOV								DATUM ONTVANG: 2015/06/12											
3																				
4	Lab No	Verwysings no	pH (KCl)	PBray1	K	Na	Ca	Mg	US(KCl)	%Ca	%Mg	%K	%Na	SUUR.V	Ca:Mg	Ca+Mg/K	Mg:K	S-Waarde	Na:K	CEC
5				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	cmol(+)/kg	%	%	%	%	%	1.5:4.5	10.0:20.0	3.0:4.0	cmol(+)/kg		
6	75995	AT-LK05649	5.68	3	230	37	705	195	0.00	60.05	27.18	10.01	2.76	0.00	2.21	8.72	2.72	5.87	0.28	5.87
7	75996	AT-LK05650	5.62	1	215	38	934	300	0.00	59.52	31.37	7.02	2.09	0.00	1.90	12.96	4.47	7.85	0.30	7.85
8	75997	AT-LK05651	5.75	8	221	41	957	297	0.00	60.09	30.58	7.11	2.22	0.00	1.96	12.75	4.30	7.96	0.31	7.96
9	75998	AT-LK05652	5.76	27	144	40	823	247	0.00	61.62	30.27	5.52	2.59	0.00	2.04	16.63	5.48	6.68	0.47	6.68
10	75999	AT-LK05653	5.56	14	191	42	1071	335	0.00	61.03	31.32	5.58	2.07	0.00	1.95	16.55	5.61	8.77	0.37	8.77
11	76000	AT-LK05654	6.20	1	288	48	1270	432	0.00	58.58	32.71	6.80	1.91	0.00	1.79	13.42	4.81	10.84	0.28	10.84
12	76001	AT-LK05655	5.46	6	337	48	1528	412	0.00	63.20	27.94	7.13	1.74	0.00	2.26	12.78	3.92	12.09	0.24	12.09
13	76002	AT-LK05656	5.60	1	308	52	1605	403	0.00	65.01	26.76	6.37	1.85	0.00	2.43	14.40	4.20	12.34	0.29	12.34
14	76003	AT-LK05657	5.49	2	239	54	1333	420	0.00	60.84	31.45	5.57	2.14	0.00	1.93	16.56	5.64	10.96	0.38	10.96
15	76004	AT-LK05658	5.73	2	206	54	1393	434	0.00	61.74	31.51	4.68	2.07	0.00	1.96	19.94	6.74	11.28	0.44	11.28
16	76005	AT-LK05659	5.48	1	190	55	1196	416	0.00	59.12	33.74	4.79	2.35	0.00	1.75	19.37	7.04	10.11	0.49	10.11
17	76006	AT-LK05660	4.83	26	231	45	1125	382	0.00	58.98	32.79	6.18	2.05	0.00	1.80	14.85	5.30	9.54	0.33	9.54
18	76007	AT-LK05661	5.61	1	219	45	1064	306	0.00	62.01	29.20	6.51	2.27	0.00	2.12	14.00	4.48	8.58	0.35	8.58
19	76008	AT-LK05662	5.63	12	205	38	906	232	0.00	63.63	26.68	7.37	2.32	0.00	2.39	12.26	3.62	7.12	0.31	7.12

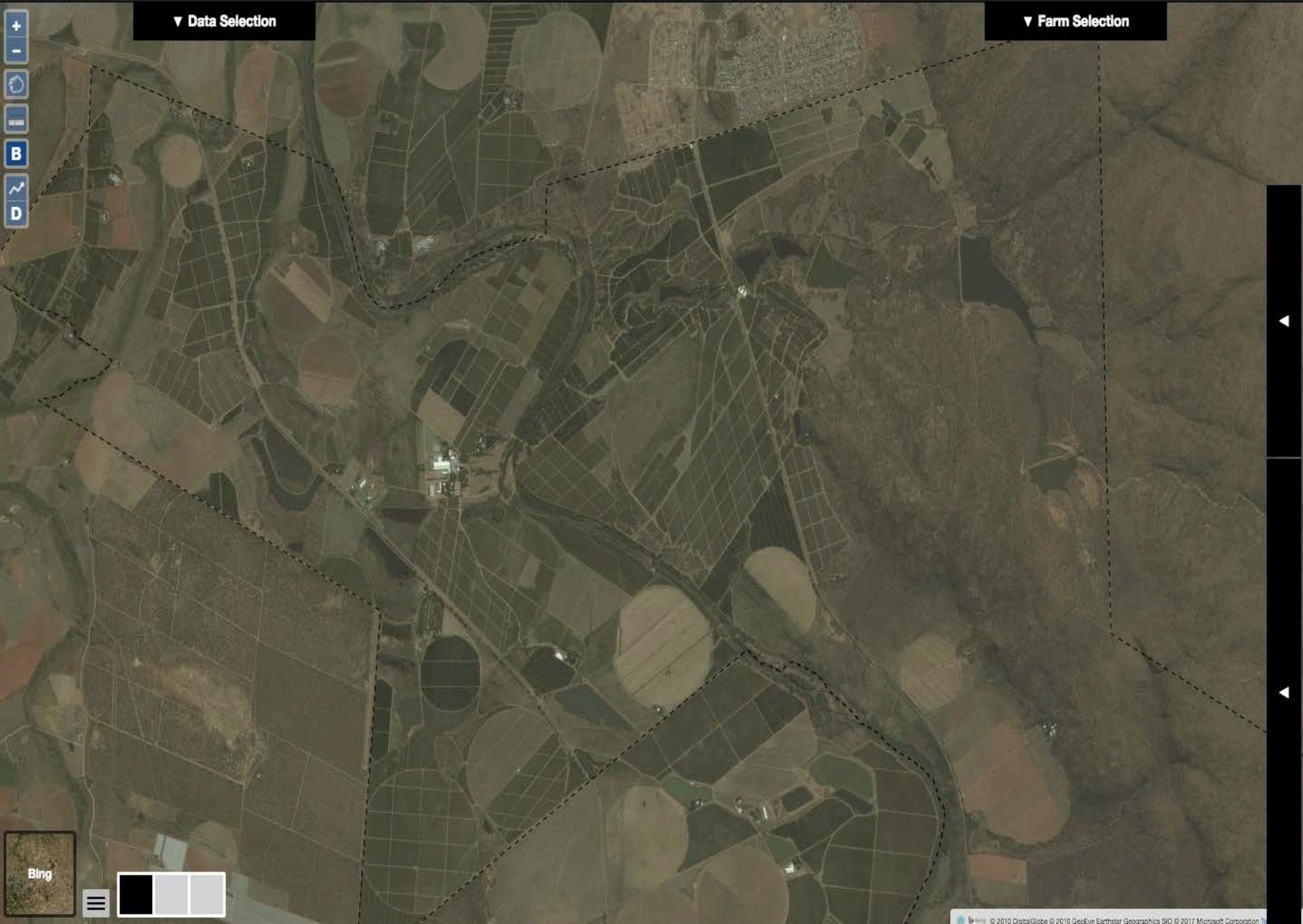




▼ Data Selection

▼ Farm Selection

- +
-
- 🔄
- 📄
- B
- 📈
- D



- ☰
- ▀
- ▁

Effective root depth



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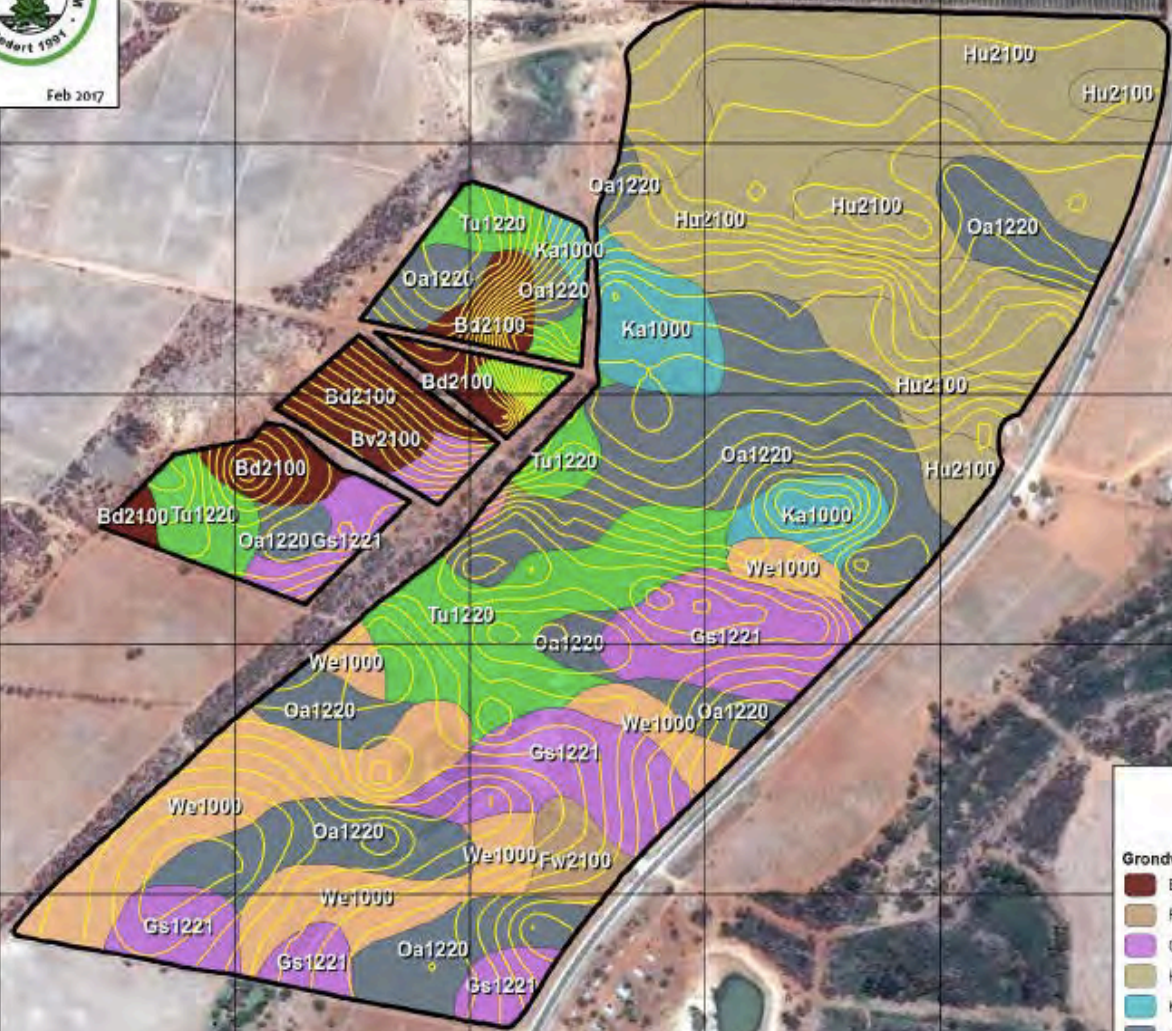
Soil Type



8 12:06 AM



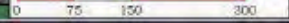
Feb 2017



	Plaasgrens (86.7ha)
	Kontoere (1m interval)
Grondvorm	
	Bloedal (5.2 ha - 6.0%)
	Fernwood (1.1 ha - 1.3%)
	Glanrosa (11.8 ha - 13.6%)
	Hutton (24.0 ha - 27.7%)
	Katspruit (4.0 ha - 4.7%)
	Oakleaf (20.9 ha - 24.1%)
	Tukulu (9.5 ha - 11.0%)
	Westleigh (10.1 ha - 11.7%)

Scale 1:6 000 when printed on A3 media (297mm wide x 420mm tall)

Datum: WGS84
Projection: Geographic
Meters



Map layout by: Christian de Kock
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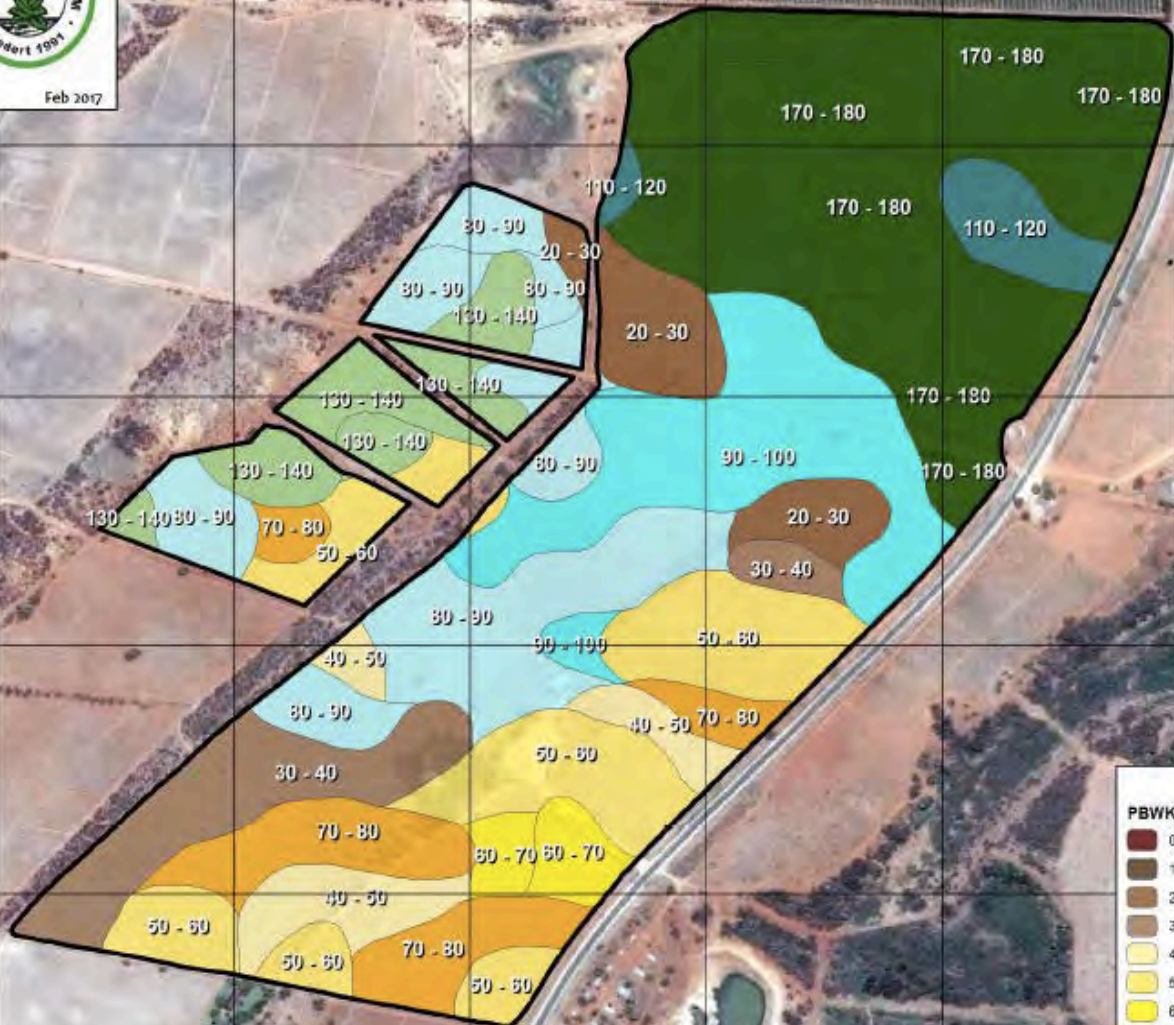
2017/02/15 10:51:05

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Plaas -
PBWK Effektiewe Diepte mm/m



Feb 2017



PBWK Effektiewe Diepte mm/m

0 - 10mm/m (0.0 ha - 0.0%)	100 - 110mm/m (0.0 ha - 0.0%)
10 - 20mm/m (0.0 ha - 0.0%)	110 - 120mm/m (2.3 ha - 2.7%)
20 - 30mm/m (4.0 ha - 4.7%)	120 - 130mm/m (0.0 ha - 0.0%)
30 - 40mm/m (5.8 ha - 6.7%)	130 - 140mm/m (5.2 ha - 6.0%)
40 - 50mm/m (3.6 ha - 4.1%)	140 - 150mm/m (0.0 ha - 0.0%)
50 - 60mm/m (11.8 ha - 13.6%)	150 - 160mm/m (0.0 ha - 0.0%)
60 - 70mm/m (1.9 ha - 2.2%)	160 - 170mm/m (0.0 ha - 0.0%)
70 - 80mm/m (6.4 ha - 7.4%)	170 - 180mm/m (24.0 ha - 27.7%)
80 - 90mm/m (12.0 ha - 13.9%)	180 - 190mm/m (0.0 ha - 0.0%)
90 - 100mm/m (9.6 ha - 11.1%)	>190mm/m (0.0 ha - 0.0%)

Plaasgrens (86.7ha)

Scale: 1:6 250 when printed on A3 media (297mm wide x 420mm tall)
Datum: WGS84
Projection: Geographic
Meters

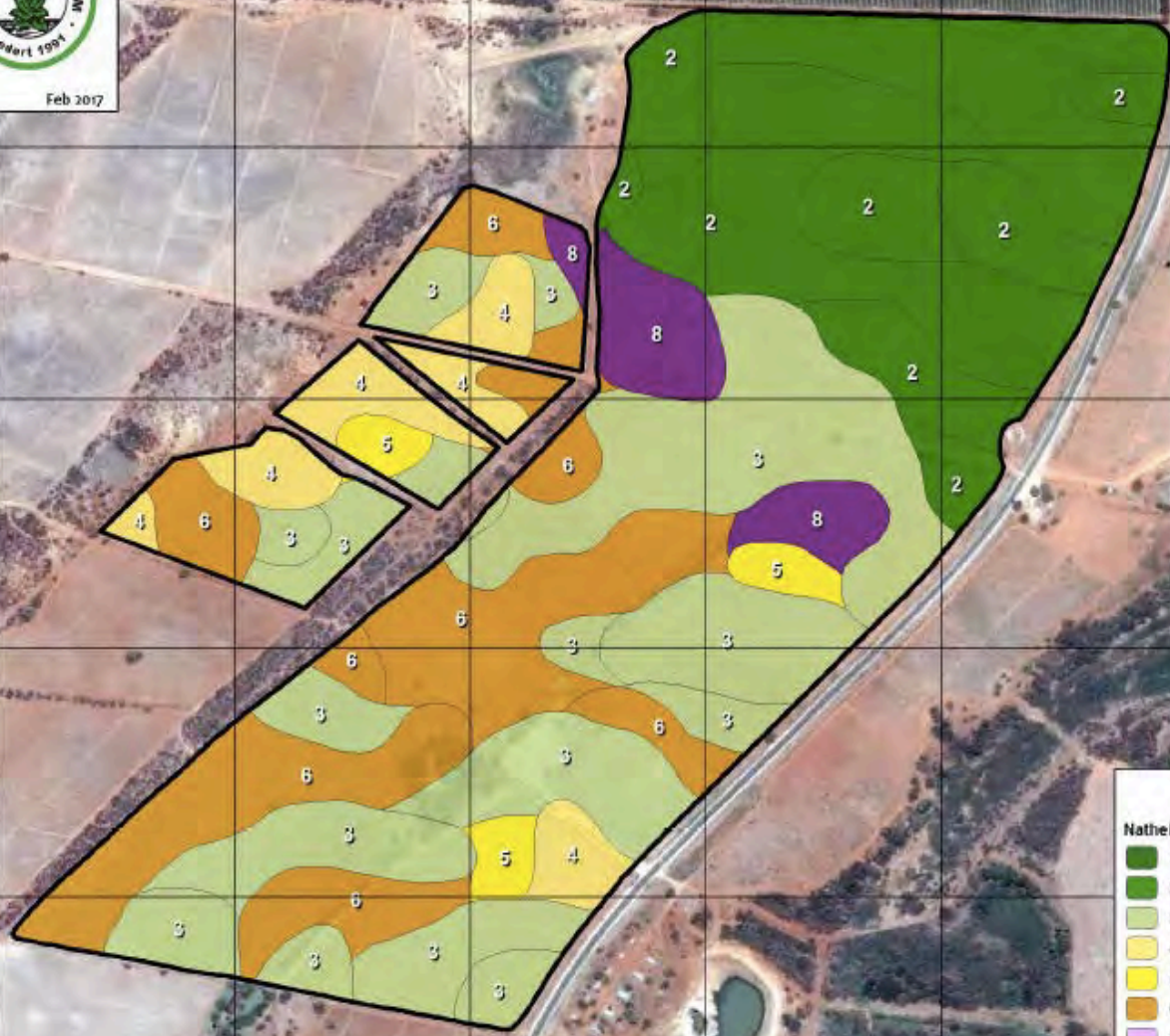
Map tayyar by Christian de Kock
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Plaas -
Nathheid



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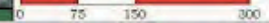
Plaasgrens (86.7ha)

Nathheid

1: >1550mm/0-30dae	(0.0 ha - 0.0%)
2: 700-1200mm/0-30dae	(26.3 ha - 30.4%)
3: 300-700mm/0-30dae	(30.3 ha - 35.0%)
4: 700-1200mm/90-180dae	(5.7 ha - 6.6%)
5: 700-1200mm/180-365dae	(2.1 ha - 2.4%)
6: 0-300mm/0-30dae	(18.2 ha - 21.0%)
7: 0-300mm/30-90dae	(0.0 ha - 0.0%)
8: 0-300mm/90-180dae	(4.0 ha - 4.7%)
9: 0-300mm/180-365dae	(0.0 ha - 0.0%)

Note 1: @ 500 when printed on A3 media (297mm wide x 420mm tall)

Datum: WGS84
Projection: Geographic
Meters



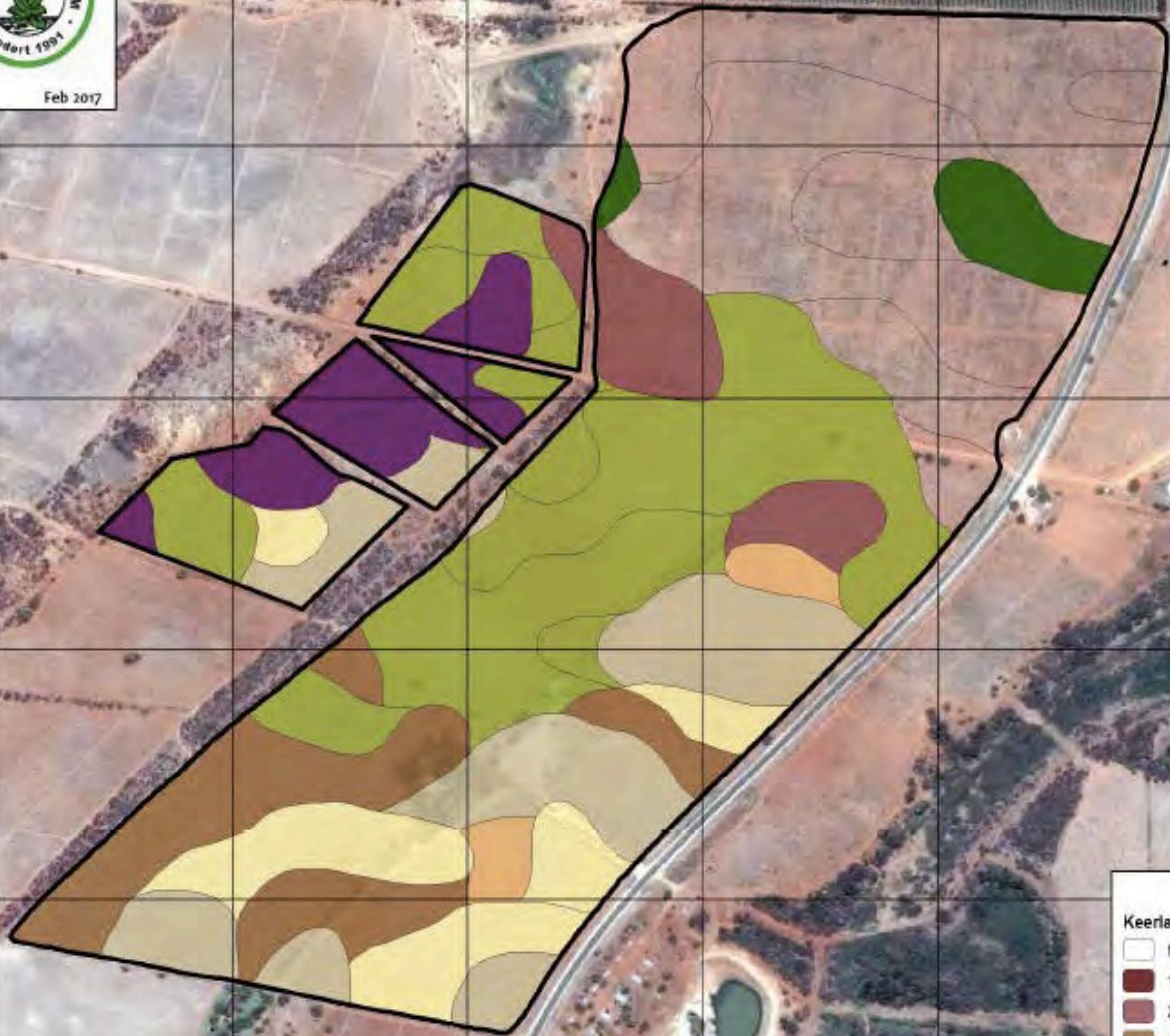
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Plaas -
Keerlaag Diepte



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Keerlaag Diepte		Plaasgrens (86.7ha)	
Neer	(24.0 ha - 27.7%)	80	(7.6 ha - 8.7%)
10	(0.0 ha - 0.0%)	70	(0.0 ha - 0.0%)
20	(4.0 ha - 4.7%)	80	(21.7 ha - 25.0%)
30	(8.7 ha - 10.0%)	90	(0.0 ha - 0.0%)
40	(1.5 ha - 1.7%)	100	(2.3 ha - 2.7%)
50	(11.8 ha - 13.6%)	110	(5.2 ha - 6.0%)

Scale 1 : 6 000 when printed on A3 media (297mm wide x 420mm tall)

Date: WGS84
Projection: Geographic
Meters



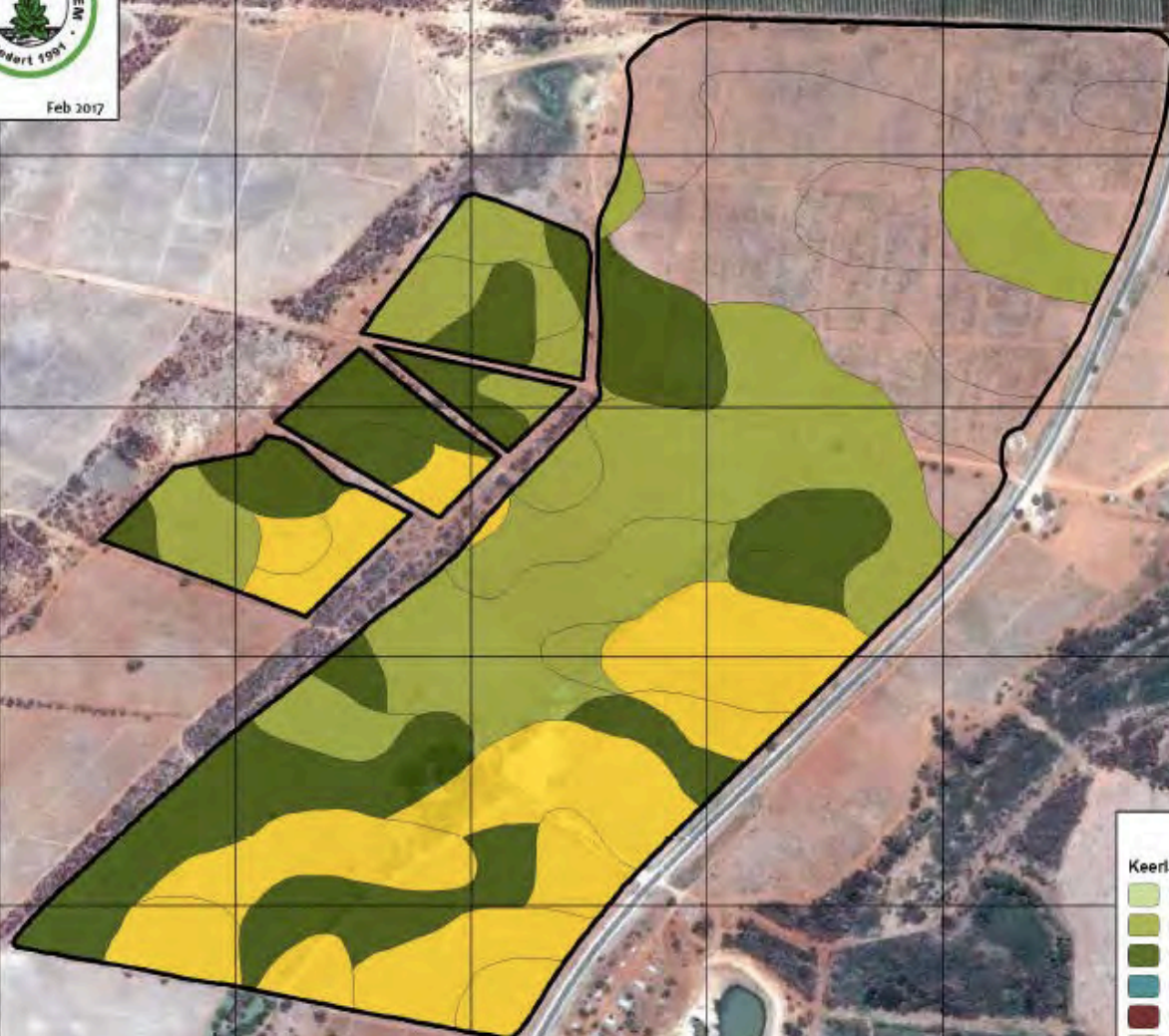
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Plaas -
Keerlaag Tipe



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Keerlaag Tipe

	Klipbelt (0.0 ha - 0.0%)
	Klei (24.0 ha - 27.7%)
	Natheid (19.4 ha - 22.3%)
	Wiertafel (0.0 ha - 0.0%)
	Kompaksie (0.0 ha - 0.0%)
	Karbonaat (0.0 ha - 0.0%)
	Klip (19.3 ha - 22.3%)
	Geen (24.0 ha - 27.7%)

Plaasgrens (86.7ha)

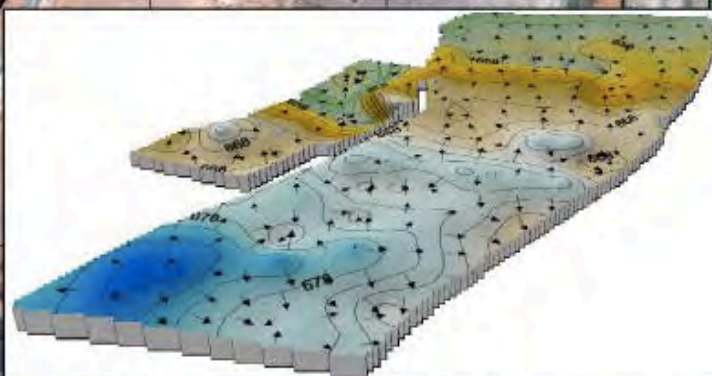
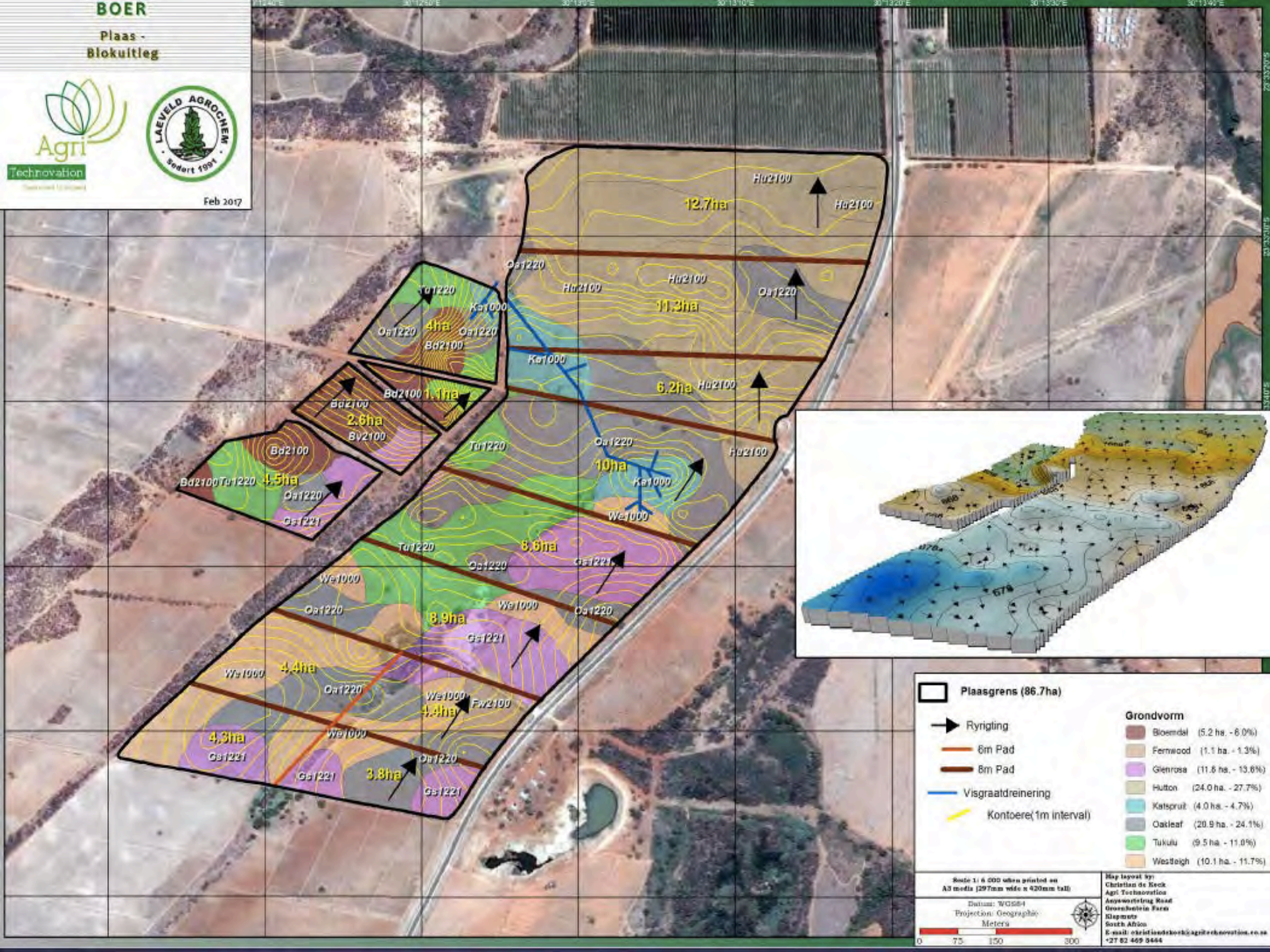
Scale 1: 6 500 where printed on A3 media (297mm wide x 420mm tall)

Datum: WGS84
Projection: Geografies
Meters

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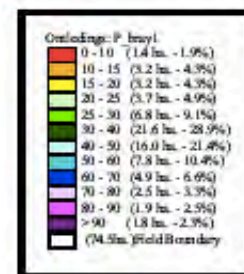
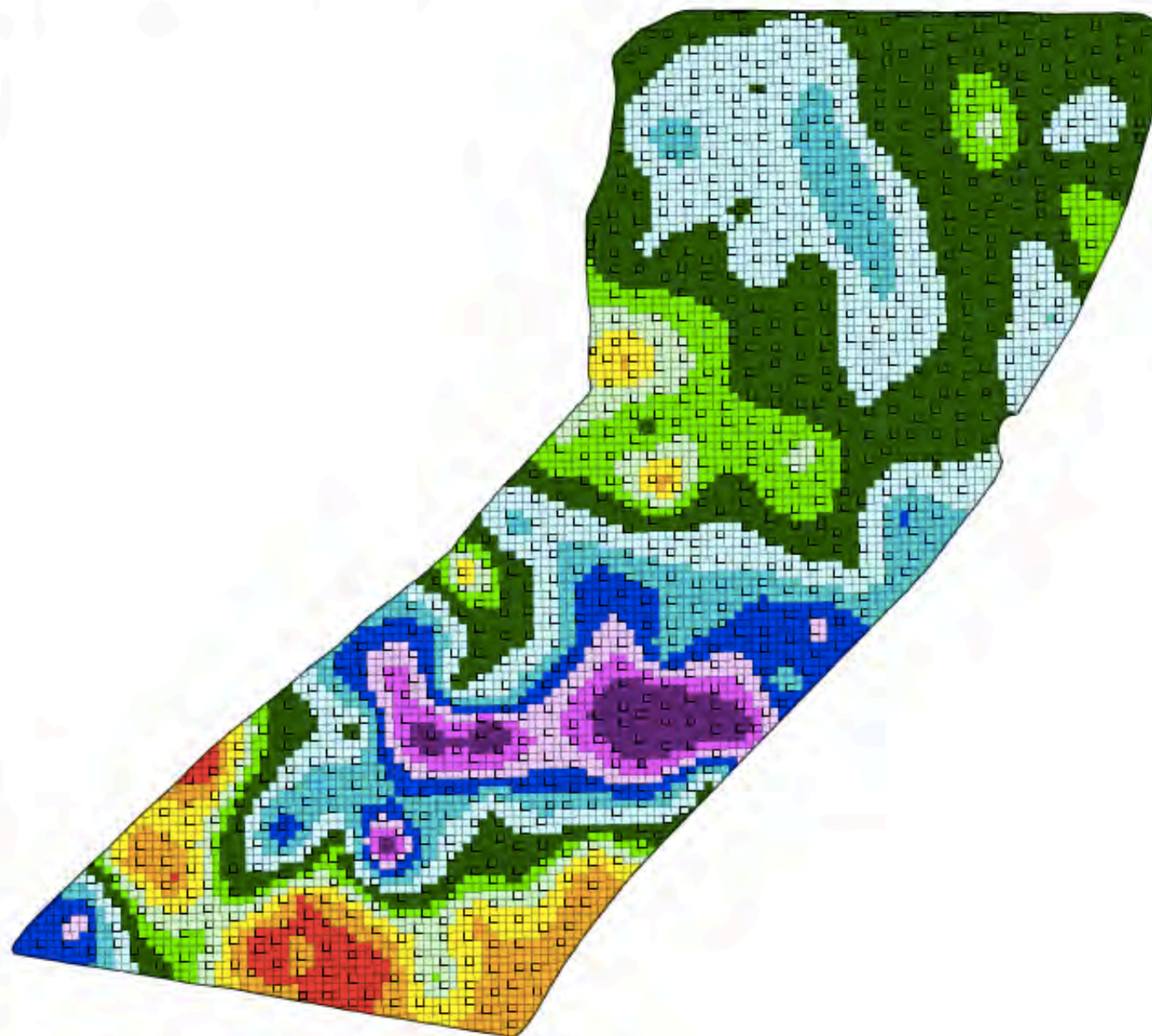
Plaasgrens (86.7ha)	Bloemdal (5.2 ha - 6.0%)
Ryrigting	Fernwood (1.1 ha - 1.3%)
8m Pad	Glenrosa (11.6 ha - 13.6%)
8m Pad	Hulton (24.0 ha - 27.7%)
Visgraatdreinering	Katspruit (4.0 ha - 4.7%)
Kontoere (1m interval)	Oakleaf (20.9 ha - 24.1%)
	Tukulú (9.5 ha - 11.0%)
	Westleigh (10.1 ha - 11.7%)

Scale: 1:6 000 unless printed on All media (297mm wide x 420mm tall)

Datum: WGS84
Projection: Geographic
Meters

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Boer_Plaas_Land; 17 (74.49 ha.) - Ontledings: PBray1(mg/kg)



Date: Mar 7, 2017
Field Name: Boer_Plaas_Land; 17
Farm Name: Plaas_Chemie
Client Name: Boer
Total Hectares: 74.49
Field Boundary Start Location:
Latitude: -23.56513664
Longitude: 30.21060172
No. of Observations: 7728
Minimum P_bray1: 3
Maximum P_bray1: 112
Average P_bray1: 41

Boer_Plaas_Land; 17 (74.49 ha.) - Ontledings: KUK(cmol[+]/kg)



Ontledings: KUK	
0 - 0.5	(0.0 ha. - 0.0%)
0.5 - 1	(0.0 ha. - 0.0%)
1 - 2	(0.0 ha. - 0.0%)
2 - 3	(0.0 ha. - 0.0%)
3 - 4	(9.5 ha. - 12.7%)
4 - 6	(28.1 ha. - 37.6%)
6 - 8	(19.1 ha. - 25.6%)
8 - 10	(13.1 ha. - 17.5%)
10 - 15	(4.9 ha. - 6.6%)
15 - 20	(0.0 ha. - 0.0%)
20 - 25	(0.0 ha. - 0.0%)
25 - 30	(0.0 ha. - 0.0%)
30 - 40	(0.0 ha. - 0.0%)
40 - 50	(0.0 ha. - 0.0%)
> 50	(0.0 ha. - 0.0%)
74.5ha. Field Boundary	

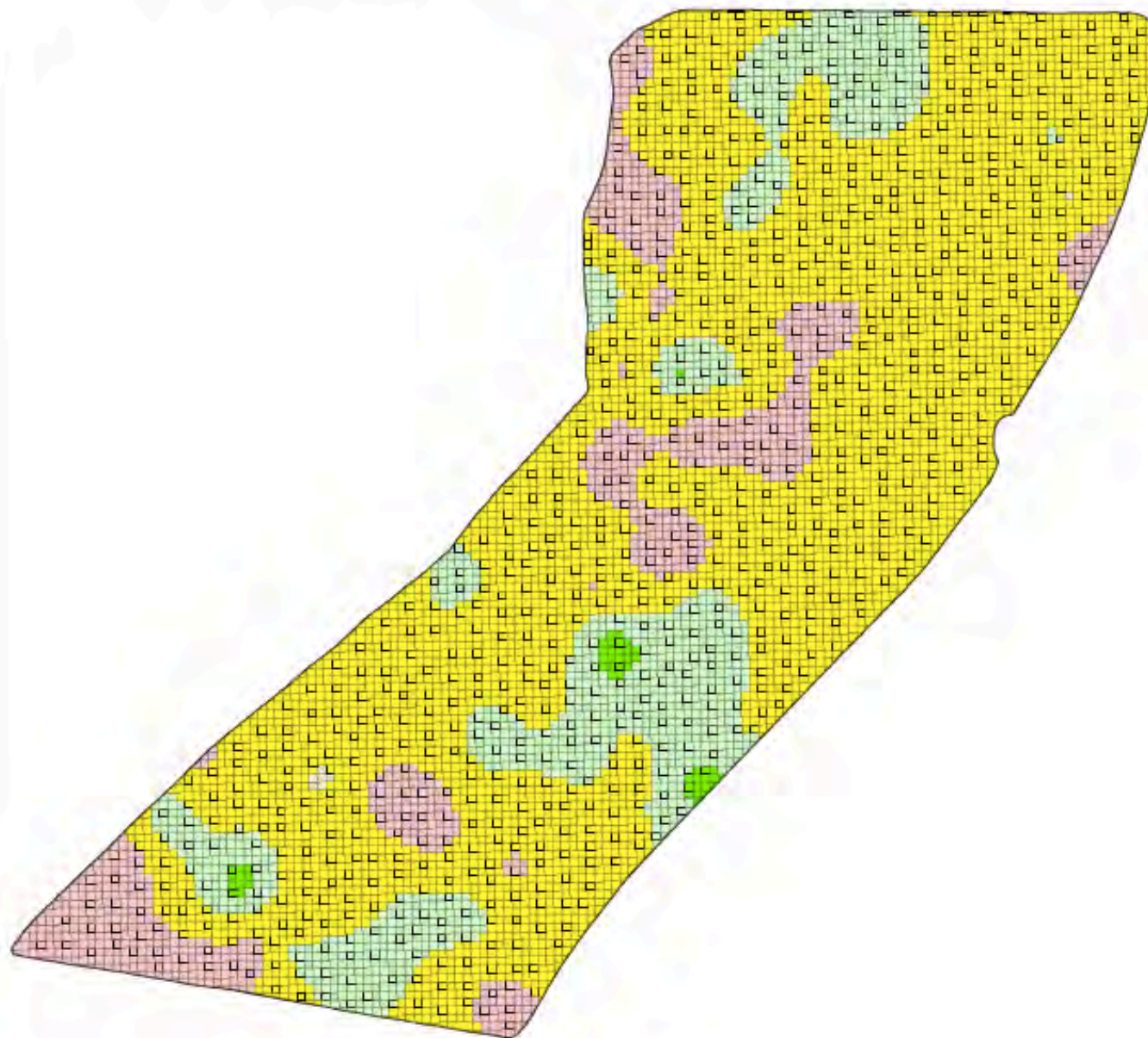
Date: Mar 7, 2017
Field Name: Boer_Plaas_Land; 17
Farm Name: Plaas_Chemie
Client Name: Boer
Total Hectares: 74.49
Field Boundary Start Location:
Latitude: -23.56513664
Longitude: 30.21060172
No. of Observations: 7728
Minimum KUK: 3.2
Maximum KUK: 13.9
Average KUK: 6.4

Boer_Plaas_Land; 17 (74.49 ha.) - Ontledings: Ca%



Technovation

Downloaded from Environment



Ontledings: Ca_pers	
0 - 40	(0.0 ha. - 0.0%)
40 - 55	(9.3 ha. - 12.4%)
55 - 60	(52.2 ha. - 69.8%)
60 - 65	(12.8 ha. - 17.1%)
65 - 70	(0.5 ha. - 0.6%)
70 - 75	(0.0 ha. - 0.0%)
>75	(0.0 ha. - 0.0%)
Field Boundary (74.5 ha.)	

Date: Mar 7, 2017
Field Name: Boer_Plaas_Land; 17
Farm Name: Plaas_Chemie
Client Name: Boer
Total Hectares: 74.49
Field Boundary Start Location:
Latitude: -23.56513664
Longitude: 30.21060172
No. of Observations: 7728
Minimum Ca_pers: 50
Maximum Ca_pers: 69
Average Ca_pers: 58

Boer_Plaas_Land; 17 (74.49 ha.) - Ontledings: K%

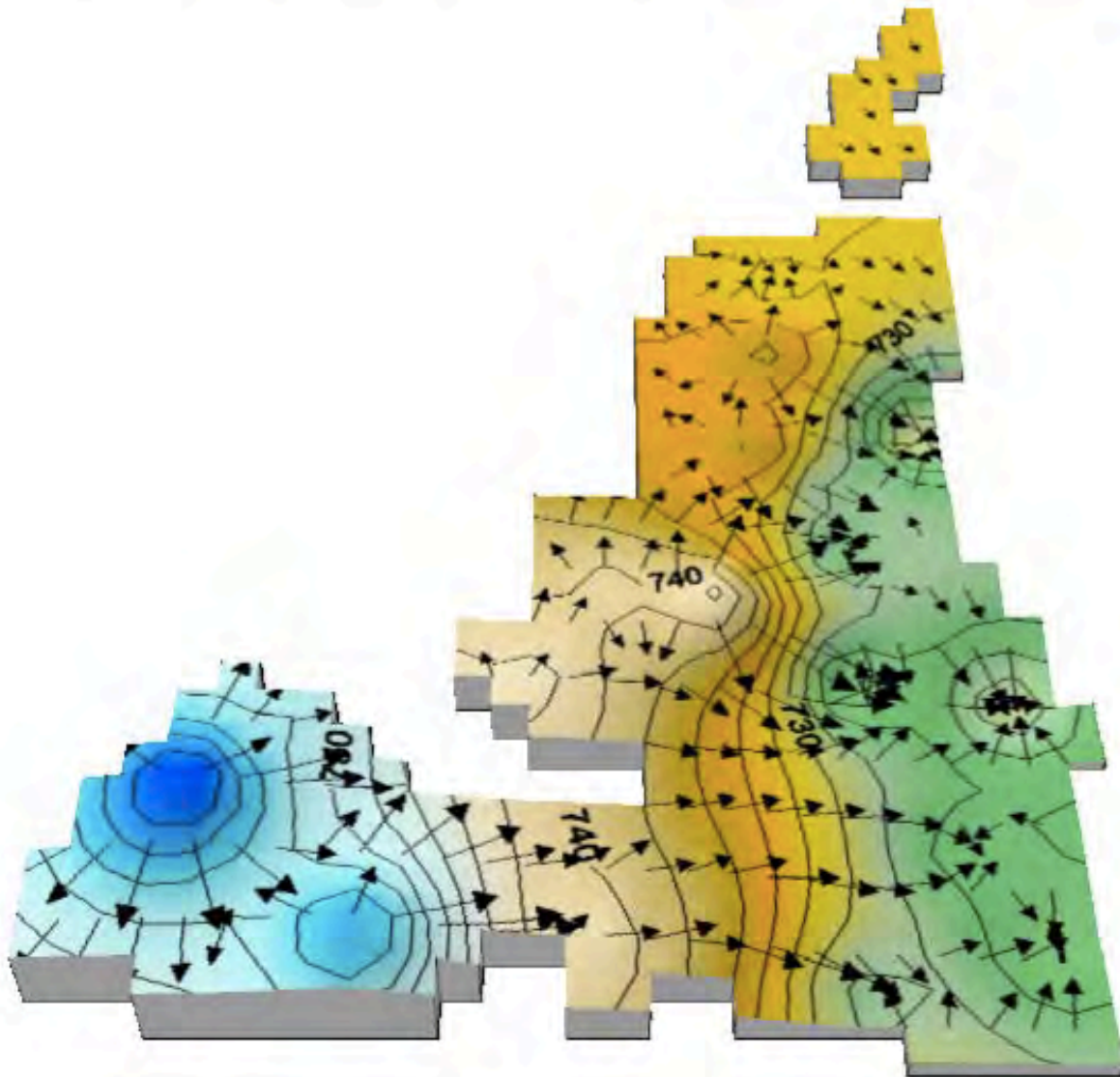


Ontledings: K_pers	
0 - 3	(0.0 ha. - 0.0%)
3 - 5	(0.0 ha. - 0.0%)
5 - 7	(0.2 ha. - 0.3%)
7 - 10	(3.7 ha. - 4.9%)
10 - 13	(22.1 ha. - 29.5%)
13 - 18	(47.7 ha. - 63.8%)
18 - 30	(1.1 ha. - 1.5%)
>30	(0.0 ha. - 0.0%)
74.5ha Field Boundary	

Date: Mar 7, 2017
Field Name: Boer_Plaas_Land; 17
Farm Name: Plaas_Chemie
Client Name: Boer
Total Hectares: 74.49
Field Boundary Start Location:
Latitude: -23.56513664
Longitude: 30.21060172
No. of Observations: 7728
Minimum K_pers: 6
Maximum K_pers: 22
Average K_pers: 14

Topografiese Kaart :

Schagen, A1-M3



Schagen, A1-M3; 16 (17.13 ha.) - Ontleding: KUK(cmol[+]/kg)



Ontleding: KUK	
0 - 0.5	(0.0 ha. - 0.0%)
0.5 - 1	(0.0 ha. - 0.0%)
1 - 2	(0.2 ha. - 1.2%)
2 - 3	(0.8 ha. - 3.3%)
3 - 4	(2.7 ha. - 15.6%)
4 - 6	(6.1 ha. - 35.3%)
6 - 8	(3.9 ha. - 23.5%)
8 - 10	(1.5 ha. - 9.0%)
10 - 15	(1.5 ha. - 9.0%)
15 - 20	(0.8 ha. - 4.8%)
20 - 25	(0.0 ha. - 0.0%)
25 - 30	(0.0 ha. - 0.0%)
30 - 40	(0.0 ha. - 0.0%)
40 - 50	(0.0 ha. - 0.0%)
> 50	(0.0 ha. - 0.0%)
[Black line symbol] (17.13 ha.) (Field Boundary)	

Date: May 10, 2016
Field Name: Alkmaar Trust Schagen, A1-M3; 16
Farm Name: Schagen chemie
Client Name: Alkmaar Trust
Total Hectares: 17.13
Field Boundary Start Location:
Latitude: -25.43431832
Longitude: 30.78751277
No. of Observations: 2134
Minimum KUK(: 1.6
Maximum KUK(: 18.0
Average KUK(: 6.5

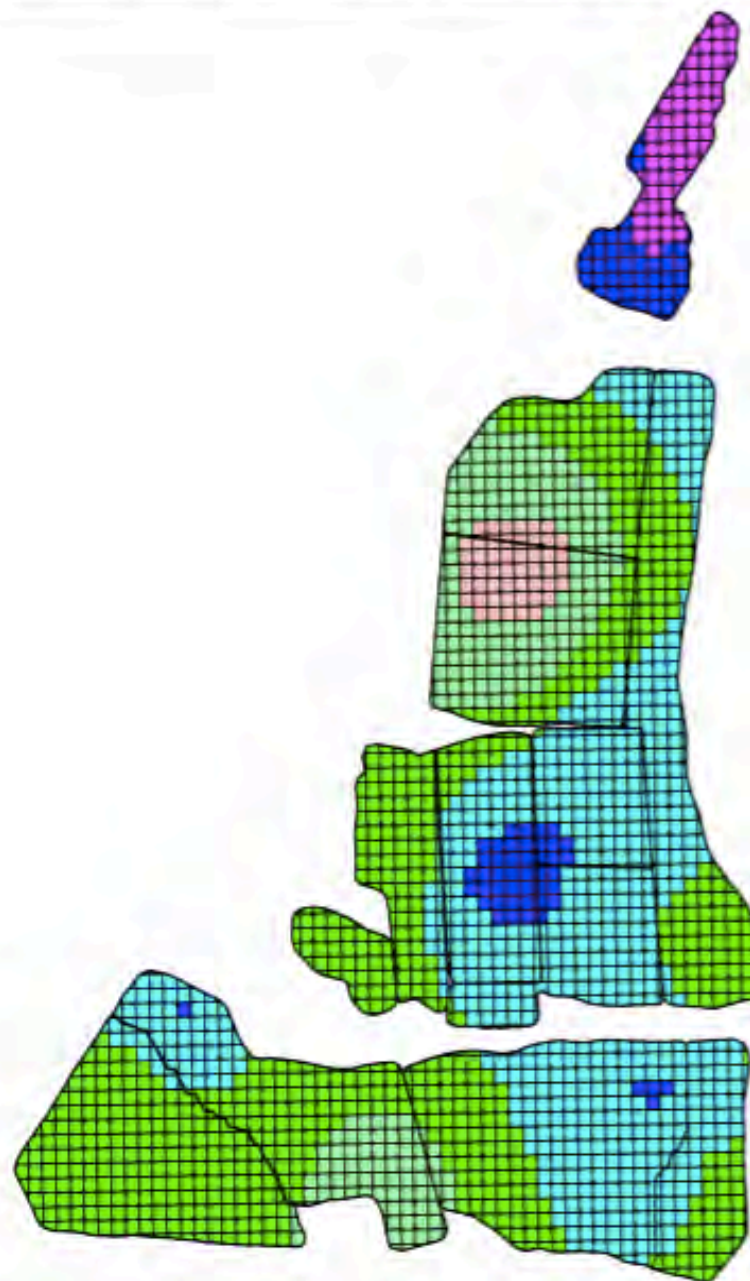
Schagen, A1-M3; 16 (17.13 ha.) - Ontleding: Ca%



Ontleding: Ca%	
0 - 40	(0.0 ha. - 0.0%)
40 - 55	(4.5 ha. - 26.4%)
55 - 60	(4.8 ha. - 28.2%)
60 - 65	(4.1 ha. - 23.8%)
65 - 70	(1.4 ha. - 8.2%)
70 - 75	(0.7 ha. - 4.1%)
> 75	(1.6 ha. - 9.4%)
	(17.1 ha. - Field Boundary)

Date: May 10, 2016
Field Name: Alkmaar Trust_Schagen, A1-M3; 16
Farm Name: Schagen_chemie
Client Name: Alkmaar Trust
Total Hectares: 17.13
Field Boundary Start Location:
Latitude: -25.43431852
Longitude: 30.78751277
No. of Observations: 2134
Minimum Ca%: 42
Maximum Ca%: 86
Average Ca%: 60

Schagen, A1-M3; 16 (17.13 ha.) - Ontleding: Mg%



Ontleding: Mg%	
0 - 10	(0.0 ha. - 0.0%)
10 - 15	(0.5 ha. - 2.9%)
15 - 20	(2.2 ha. - 12.7%)
20 - 25	(6.9 ha. - 40.3%)
25 - 30	(6.2 ha. - 36.0%)
30 - 35	(0.9 ha. - 4.9%)
> 35	(0.6 ha. - 3.4%)
	(17.1 ha.) Field Boundary

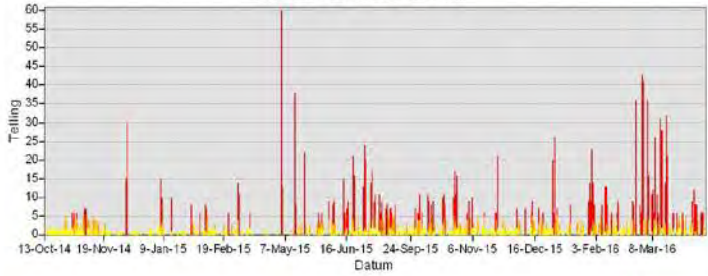
Date: May 10, 2016
Field Name: Alkmaar Trust, Schagen, A1-M3, 16
Farm Name: Schagen_chemie
Client Name: Alkmaar Trust
Total Hectares: 17.13
Field Boundary Start Location:
Latitude: -25.45431832
Longitude: 30.78751277
No. of Observations: 2154
Minimum Mg%: 12
Maximum Mg%: 35
Average Mg%: 24

Valskodingmot_Week15

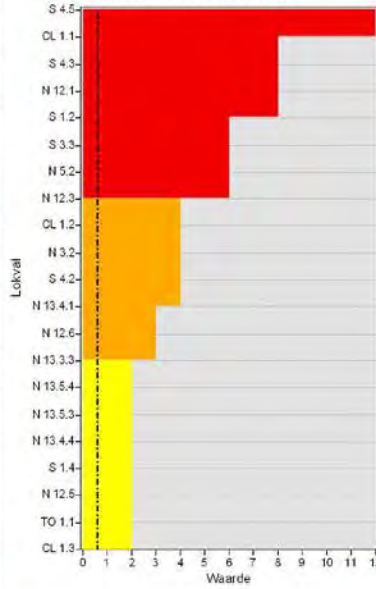


April 2016

Valskodingmot Opsomming



Week15 met gemiddelde lyn



Grens (1 373ha)
 Blokgrens

Valskodingmot

Waarde

- 0 (501,6 ha. - 70.3%)
- 1 - 3 (149,2 ha. - 20.9%)
- 3 - 6 (52,1 ha. - 7.3%)
- > 6 (10,6 ha. - 1.5%)

Scale 1: 18 500 when printed on A3 media (297mm wide x 420mm tall)

Datum: WGS84
 Projection: Geographic
 Meters



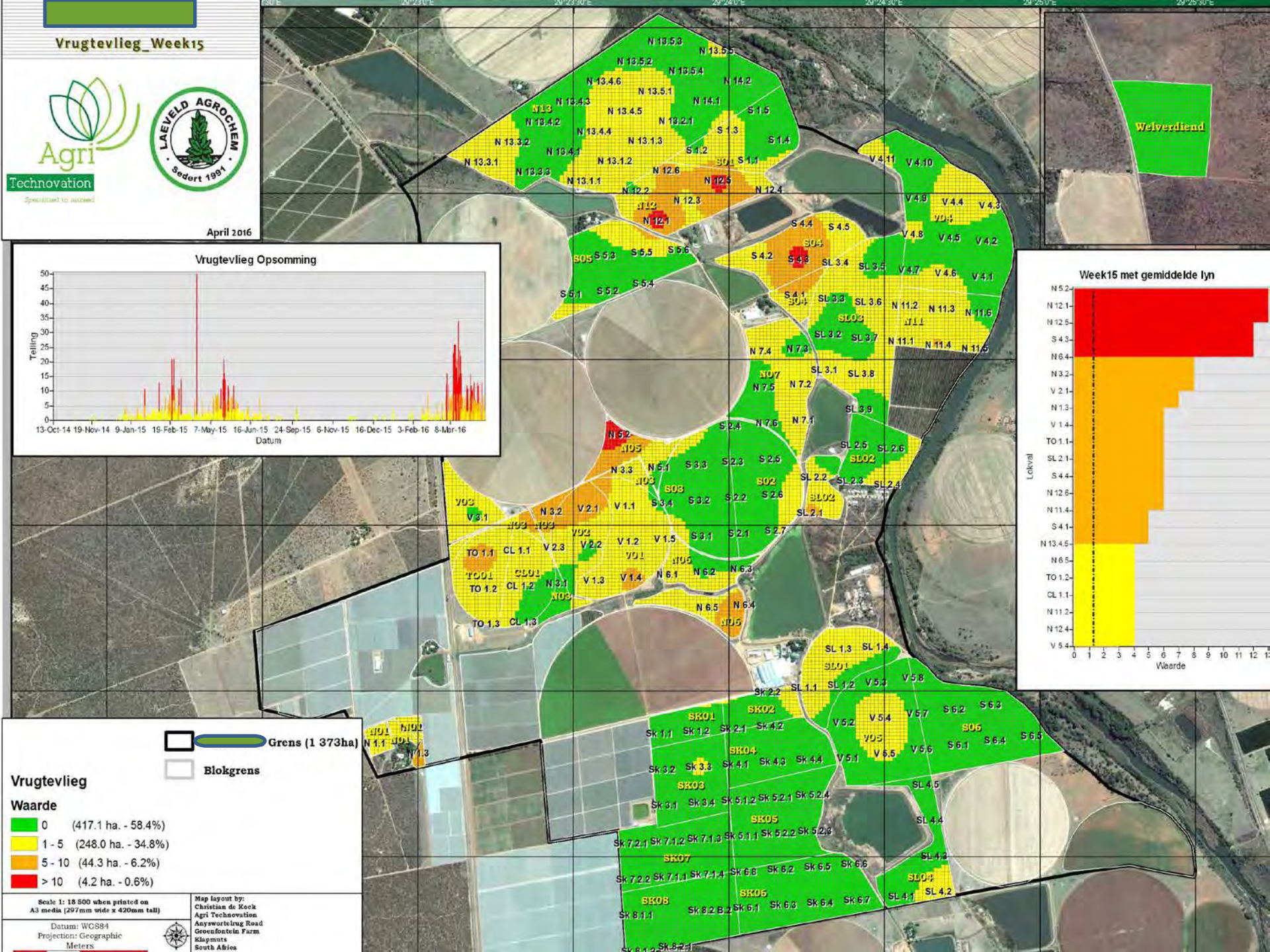
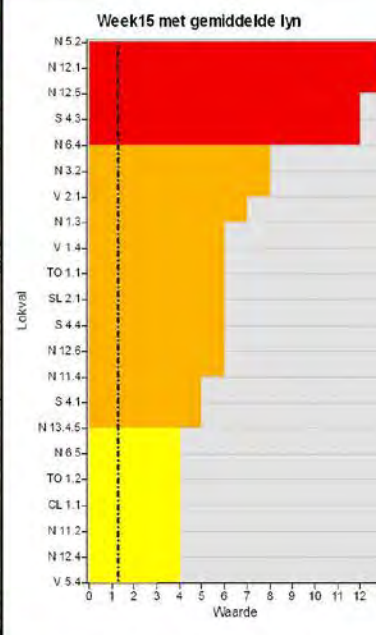
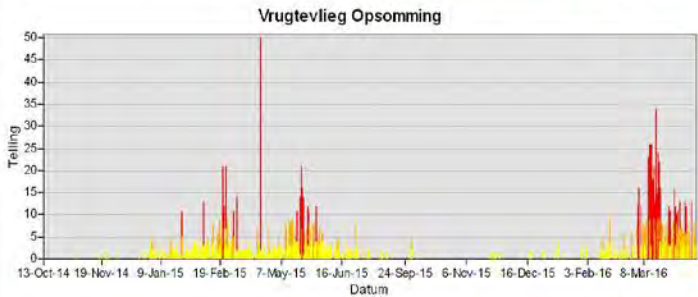
Map layout by:
 Christian de Kock
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 Anyswortelung Road
 Groenfontein Farm
 Klippanne
 South Africa

Welverdiend

Vrugtevlieg_Week15



April 2016



Grens (1 373ha)
Blokgrens

Vrugtevlieg

Waarde

0	(417.1 ha. - 58.4%)
1 - 5	(248.0 ha. - 34.8%)
5 - 10	(44.3 ha. - 6.2%)
> 10	(4.2 ha. - 0.6%)

Scale 1: 18 500 when printed on A3 media (297mm wide x 420mm tall)
 Datum: WGS84
 Projection: Geographic Meters
 Map layout by: Christian de Kock
 Agri Technovation
 Anyworteirug Road
 Gooisfontein Farm
 Klipmuts
 South Africa

Client: Client name
 Farm: Farm name
 Date of Sample: 2016/11/09
 Sample Number:
 Crop: Avocado
 Crop Stage: Cell division
 Cultivar: Gem
 Agronomist: Erik de Vries
 Agent: Chris Glennie

What does YOUR plant say?

Recommendation

Nitrogen, Phosphate, Calcium, Magnesium, Sulphur, Iron, Manganese and Zinc are sufficient.

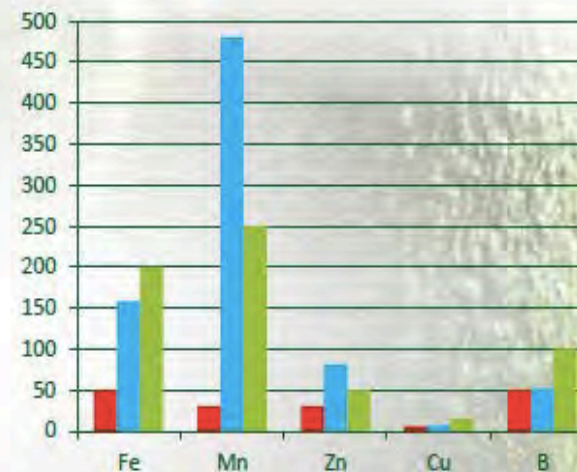
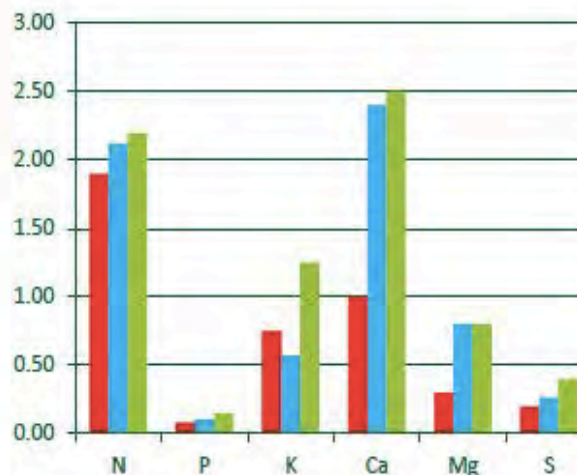
Potassium is taken up by the roots as cations and stays in its ionic form in the plant. Potassium is needed for the open and close of the stomata in the leaves which has an important effect on the water use of the plant. Potassium is also needed for root growth, enlargement of fruits and resistance against diseases.

Copper will rarely show symptoms of deficiency and is only needed in small amounts.

Boron is important for pollen formation, and the growth of the pollen tubes in the stigma of the flower. Boron is important for optimal fruit set. Symptoms of deficiency will be marginal die back of young leaves.

Recommendation in 100 liters water/ha

- 200 ml Flower Power
- 250 ml K-To-Perform
- 25 ml Copper-To-Perform
- 150 ml Try Me



■ Min. Optimum Level
 ■ Actual Leaf Analysis
 ■ Max. Optimum Level

■ Min. Optimum Level
 ■ Actual Leaf Analysis
 ■ Max. Optimum Level

Effektiviteit van Tyd



- Akkuraatheid en betroubaarheid van inligting het 'n groot invloed op regte besluitneming.
- Formaat van inligting bepaal spoed van besluitneming.
- Spoed van besluitneming bepaal relevansie van besluit.
- Relevansie bepaal sukses.
- Sukses bepaal volhoubaarheid.



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Wat dryf Presisieboerdery wêreldwyd ?

Groei 14 % per jaar in ontwikkelde en nie-ontwikkelde lande

Toename in opbrengs en kwaliteit

Hoë insetkoste

- Differensiële toediening op N P K en Ameliorante

- Finansiering

- "Traceability "





Precision Decision

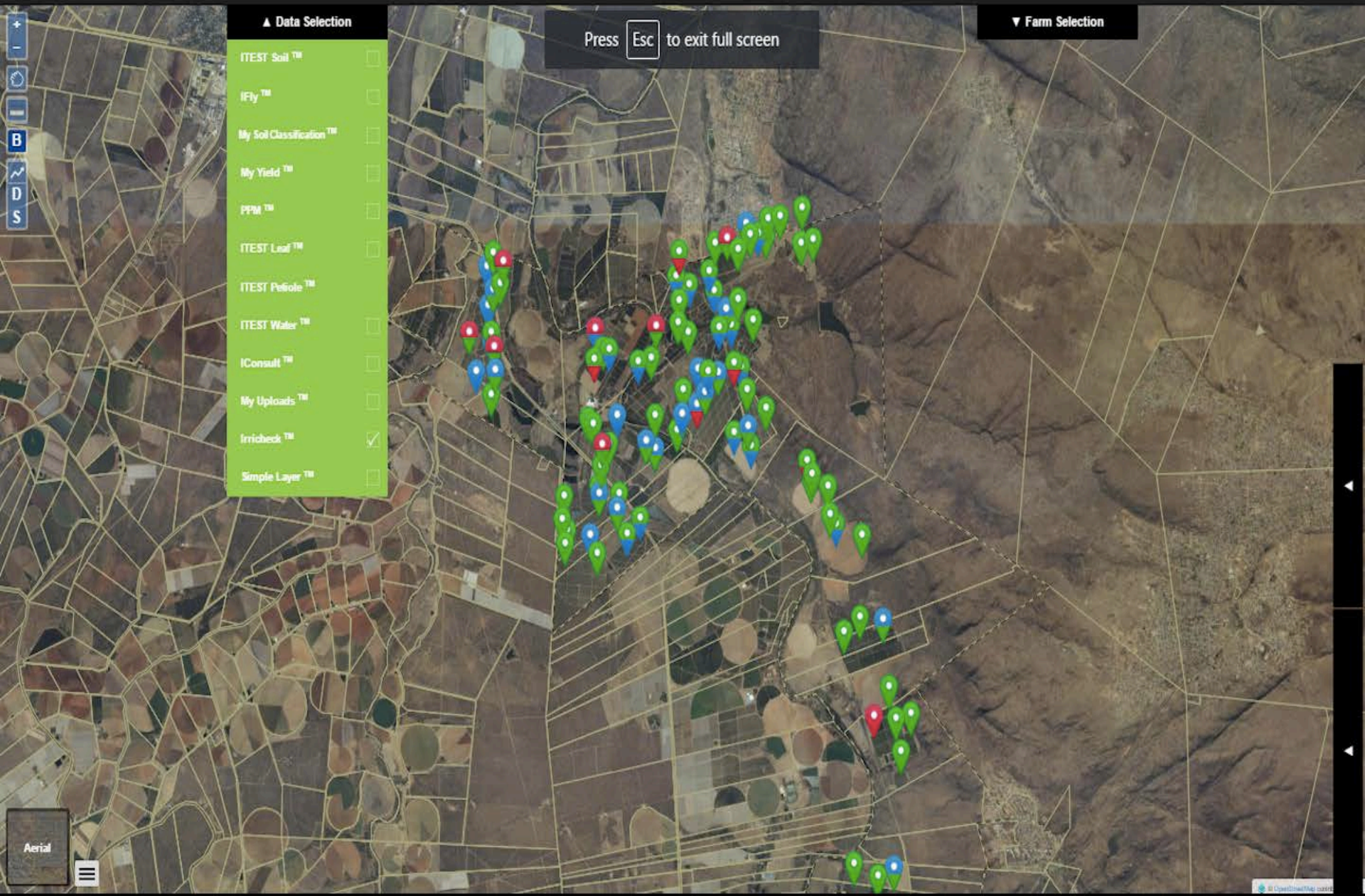


▲ Data Selection

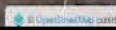
- ITEST Soil™
- IFly™
- My Soil Classification™
- My Yield™
- PPM™
- ITEST Leaf™
- ITEST Petiole™
- ITEST Water™
- IConsult™
- My Uploads™
- Irricheck™
- Simple Layer™

Press Esc to exit full screen

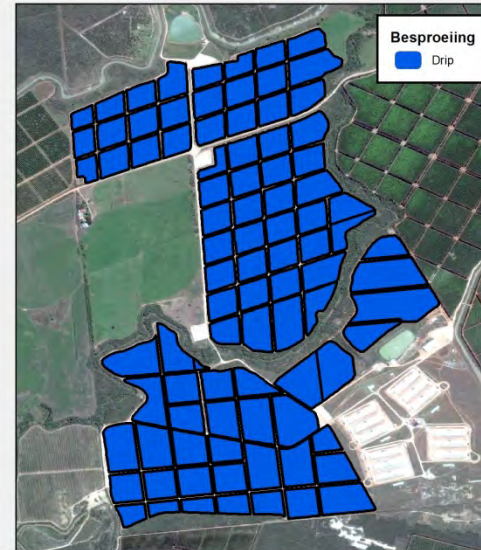
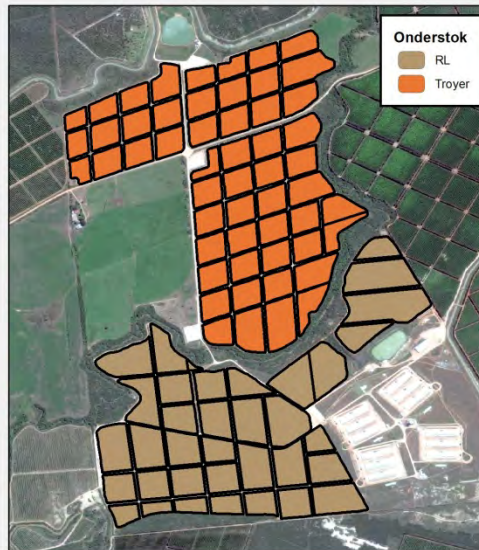
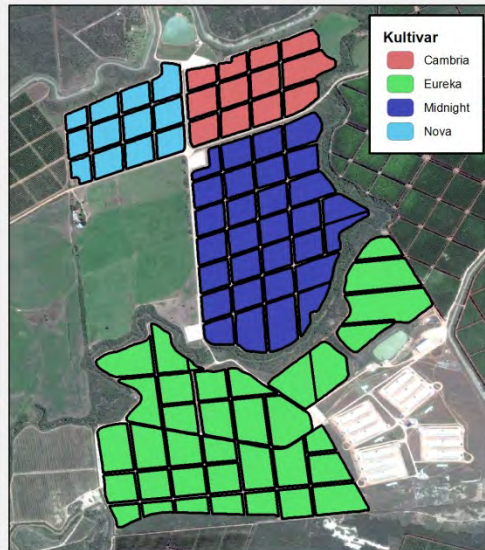
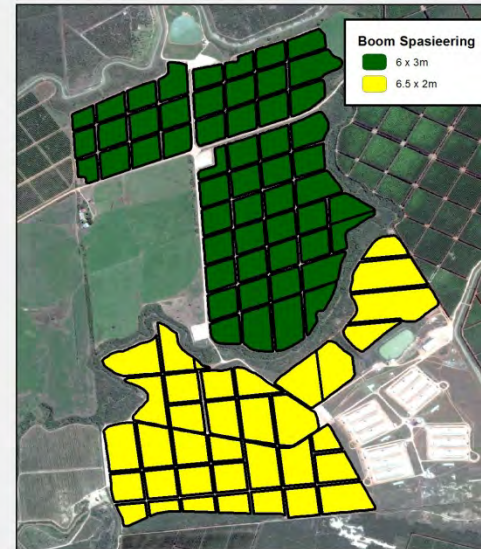
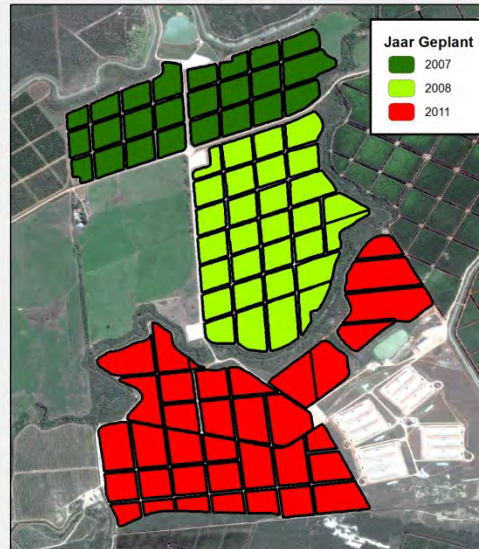
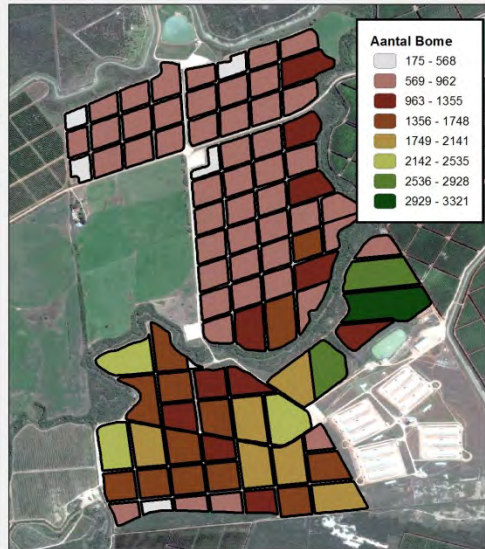
▼ Farm Selection



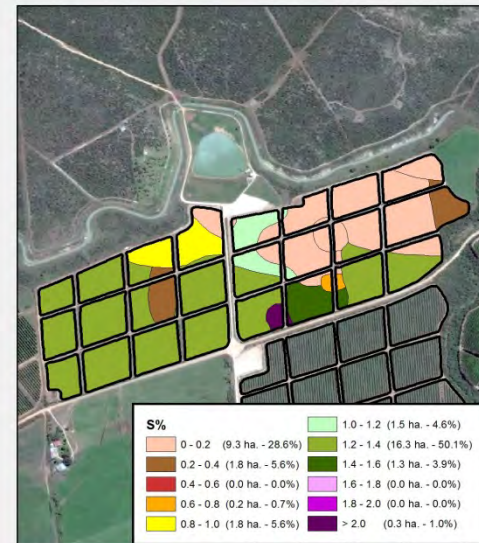
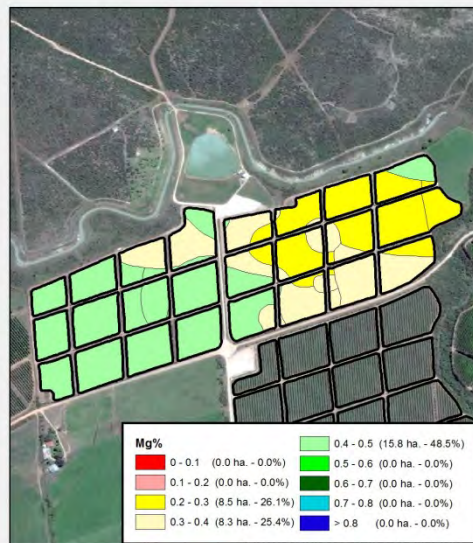
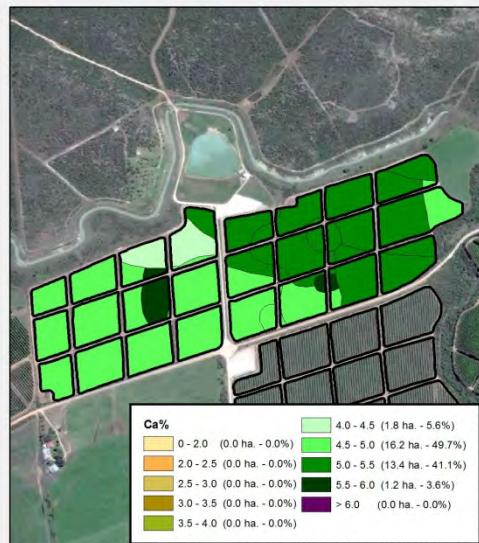
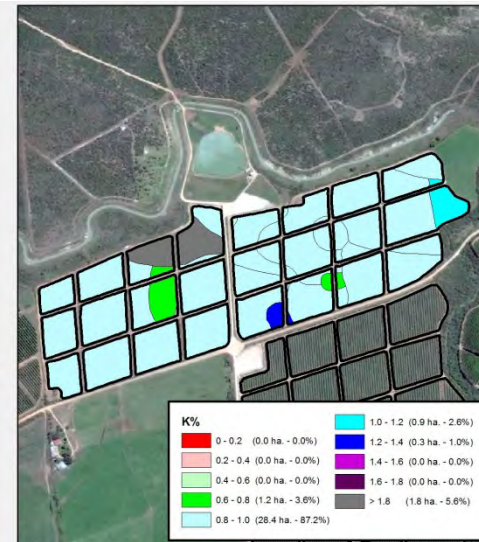
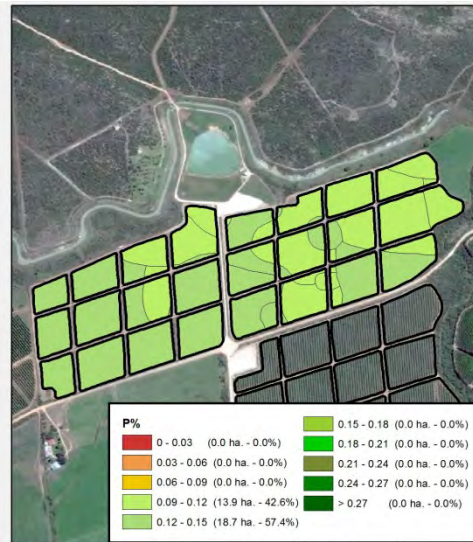
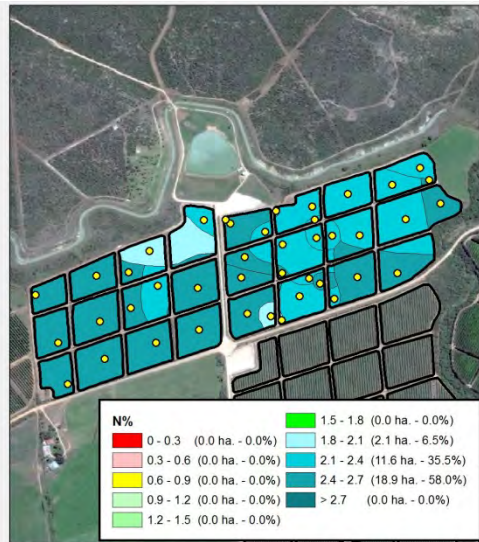
Aerial



Orchard- or Block information



Area-verteenwoordigende Blaarkaarte



Kliënt – Jaco Muller
Plaas – Mariri
Boord nommer – M5
Gewas – Sagte Sitrus
Gewas Stadium - Selvergroting
Kultivar – Satsuma
Landboukundige – Erik de Vries
Agent – Kobus Kitshoff



C: +27 82 469 8444 | O: +27 21 300 0543 |
E: admin@agritechnovation.co.za
A: Groenfontein Farm, c/o R44 &
Answortelrug Road, Klappmuts 7625
www.agritechnovation.co.za

Fruit growth from week 46 to 45

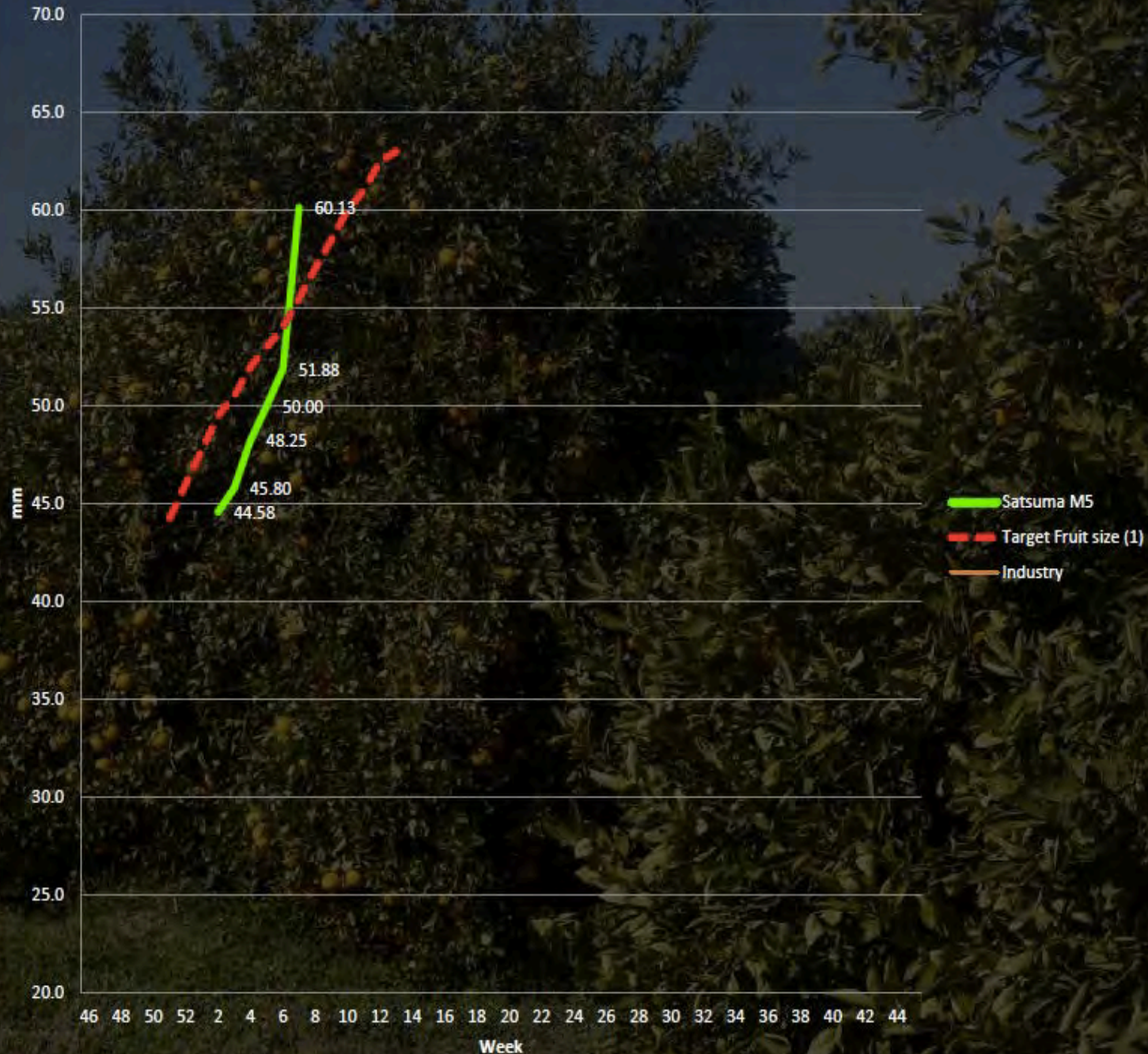


Kliënt – Jaco Muller
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Fruit growth from week 46 to 45



**RGB Imagery over
the Hail Nets**

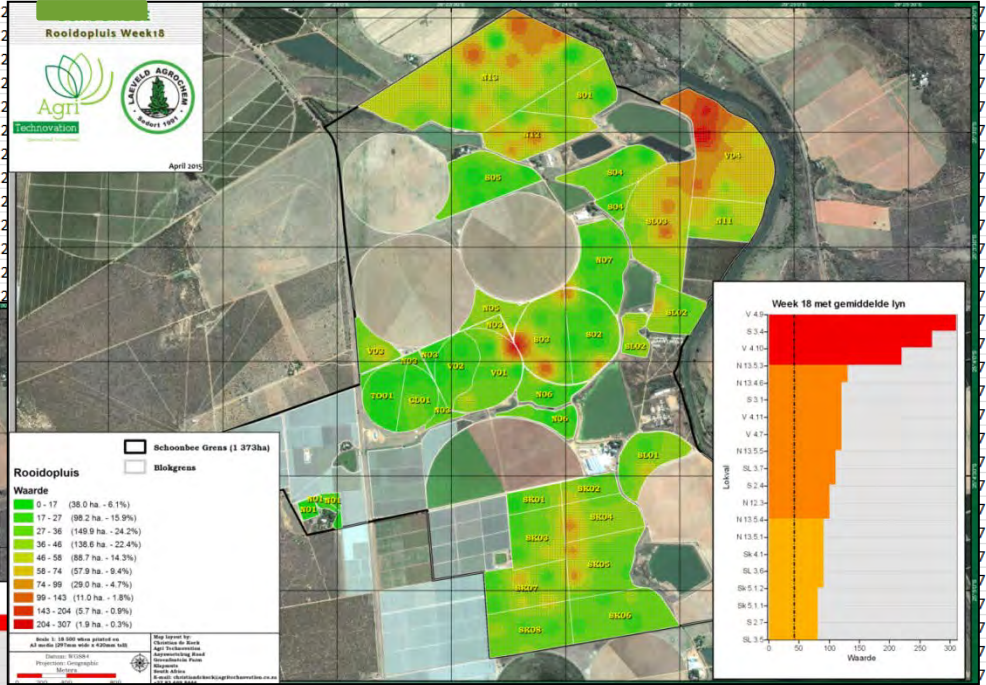
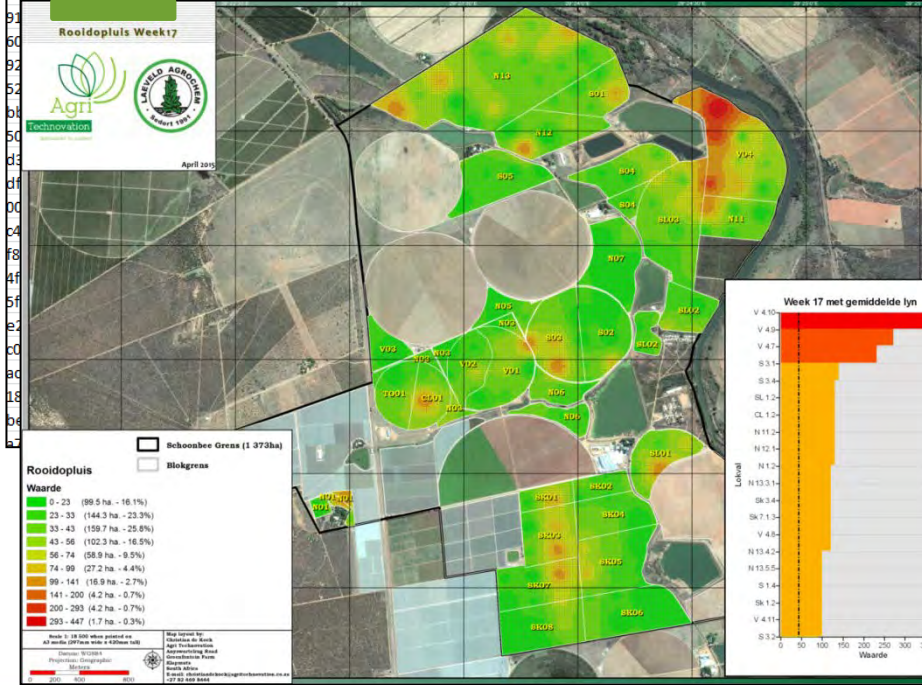
**NDVI Imagery over
the Hail Nets**



Image 3: Example of the NDVI imagery produced over the Hail nets

PPM

fulcrum	created_a	updated_a	created_b	updated_b	system_cr	system_u	version	status	project	assigned	latitude	longitude	geometry	plasmaan	lokvalnon	vrugtevlr	rooidoplu	valskodlir	valskodlir	sitruswitl	karobmot	bactrocer	bladsprin	datum
946b7d21-	2015-10-0'	2015-10-0'	pmeiring	(pmeiring	(2015-10-0'	2015-10-0'		1			-25.0828	29.39476	POINT (29 Sb	Sk 7.2.1		0	0	0	0	0	0	0	0	2015-10-07
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fc2ca5a2-	2015-10-0'	2015-10-0'	pmeiring	(pmeiring	(2015-10-0'	2015-10-0'		1			-25.0863	29.39503	POINT (29 Sb	Sk 8.1.1		0	0	0	0	0	0	0	0	2015-10-07
5581eb50-	2015-10-0'	2015-10-0'	pmeiring	(pmeiring	(2015-10-0'	2015-10-0'		1			-25.088	29.39515	POINT (29 Sb	Sk 8.1.2		0	0	1	0	0	0	0	0	2015-10-07
ea6e5c15-	2015-10-0'	2015-10-0'	pmeiring	(pmeiring	(2015-10-0'	2015-10-0'		1			-25.0876	29.39711	POINT (29 Sb	Sk 8.2.1		0	0	0	0	0	0	0	0	2015-10-07
04b694a7-	2015-10-0'	2015-10-0'	pmeiring	(pmeiring	(2015-10-0'	2015-10-0'		1			-25.086	29.397	POINT (29 Sb	Sk 8.2.B.1		0	0	0	0	0	0	0	0	2015-10-07
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POINT (29 Sb	Sk 2.2	0	0	1	0	0	0	0	0	0	2015-10-07
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POINT (29 Sb	Sk 5.1.1	0	0	0	0	0	0	0	0	0	2015-10-07



PPM Sprayprogram

Bladspringer_Week19
Sput



Julie 2016



- Schoonbee Grens (1 373ha)
- Blokgrens

Bladspringer

Bladspringer Bo Waarde 2

Scale 1: 18 500 when printed on A3 media (297mm wide x 420mm tall)

Datum: WGS84
Projection: Geographic
Meeters



Map layout by:
Christine de Kock
Agri Technovation
Answortelung Road
Grensfontein Farm
Ripanswa
South Africa
E-mail: christianadekock@agritechnovation.co.za
+27 82 469 8444



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Client: Client name
 Farm: Farm name
 Date of Sample:
 Sample Number:
 Crop: Avocado
 Crop Stage: Cell division
 Cultivar: Hass
 Agronomist: Erik de Vries
 Agent: Chris Glennie

What does YOUR plant say?

Recommendation

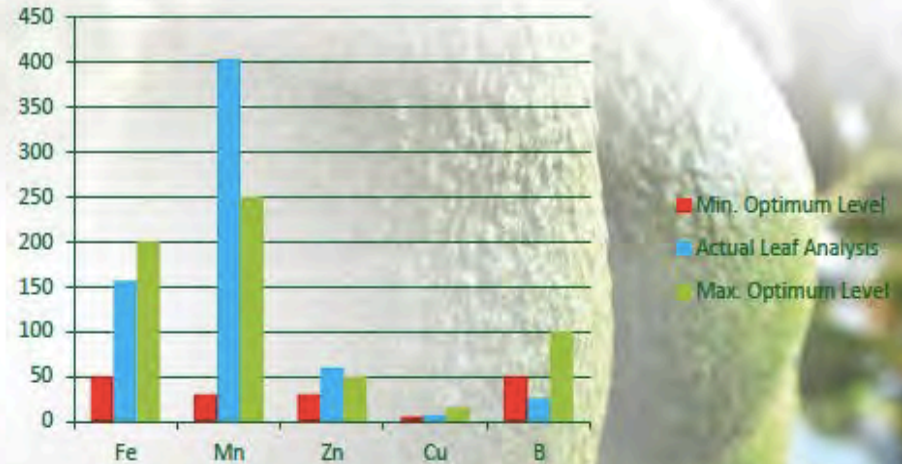
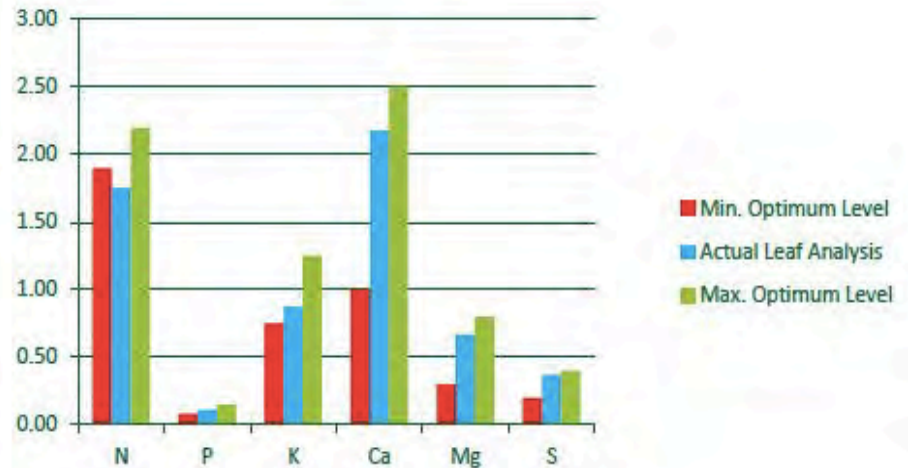
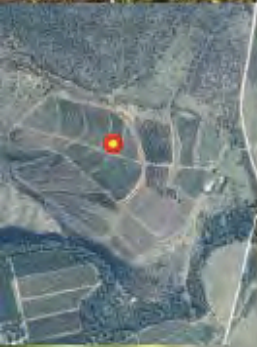
Nitrogen, Phosphate, Potassium, Calcium, Magnesium, Sulphur, Iron, Manganese and Zinc are sufficient.

Copper will rarely show symptoms of deficiency and is only needed in small amounts.

Boron is important for pollen formation, and the growth of the pollen tubes in the stigma of the flower. Boron is important for optimal fruit set. Symptoms of deficiency will be marginal die back of young leaves.

Recommendation in 100 liters water/ha

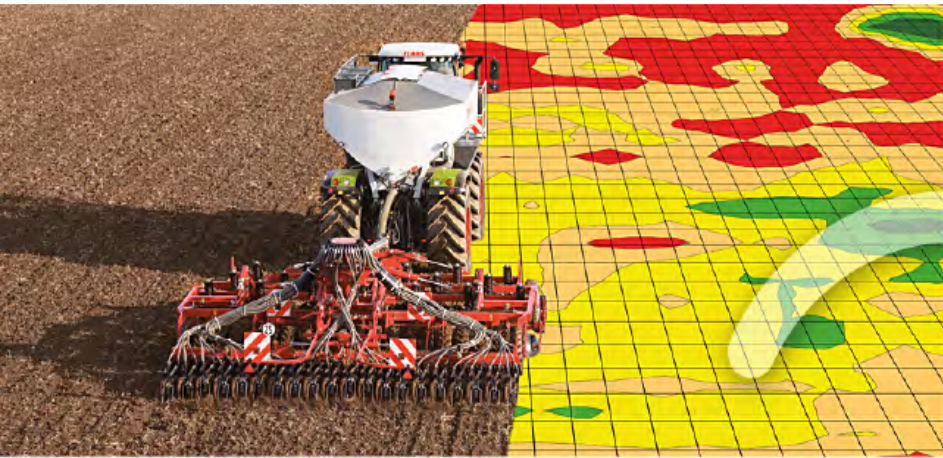
- 200 ml Flower Power
- 250 ml K-To-Perform
- 25 ml Copper-To-Perform
- 150 ml Try Me





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“If you think you are too small to make a difference, you’ve obviously never been in bed with a mosquito.”

