

8th January 2020

SPot East Results Day

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Agenda

- 11am Desiccation trials results - Mark Stalham
- 12.15pm Herbicide trial results - Joe Martin
- 12.30 Lunch
- 1.30pm Future trial plans - Anne Stone
- 1.50pm Storage update - David Wilson
- 2.30pm Close

Which treatment is which?

1. Spotlight T1, Gozai T2
2. Reglone T1 and T2,
3. Spotlight T1, Gozai T2,
4. Pelargonic Acid T1, Spotlight T2,

AHDB Potato Desiccation Project 2019

Mark Stalham



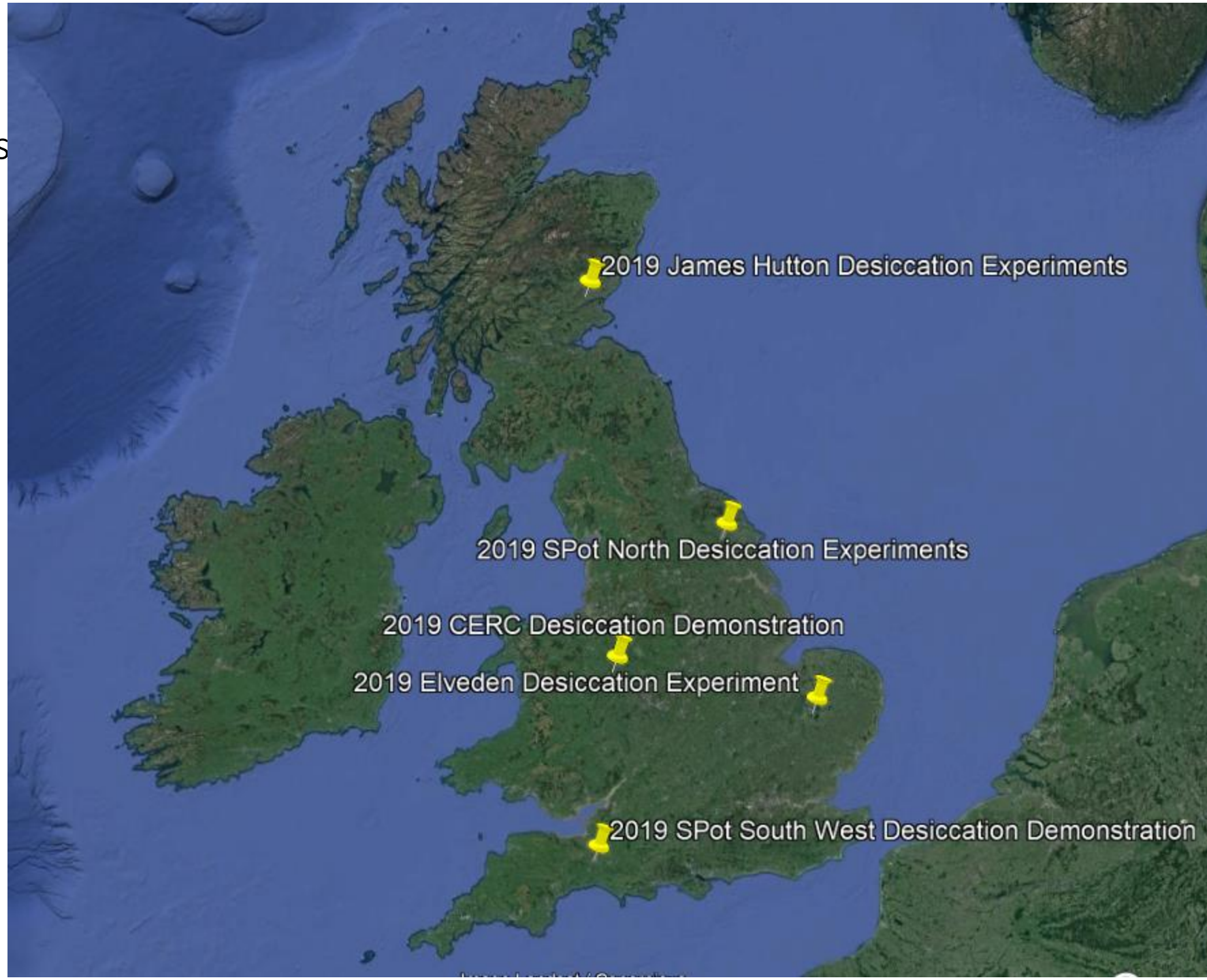
With contributions by Joanna Barton, Simone Cristoforo, Paul Dellar, Gerdientje Bouwhuis, Peter Miller, Tom Diment



Why do we need to desiccate?

- Prevent further growth of tubers to maximize return
- Remove foliage to assist harvesting
- Initiate or advance the process of skinset to reduce damage at harvest
- Reduce disease risk

Trials locations

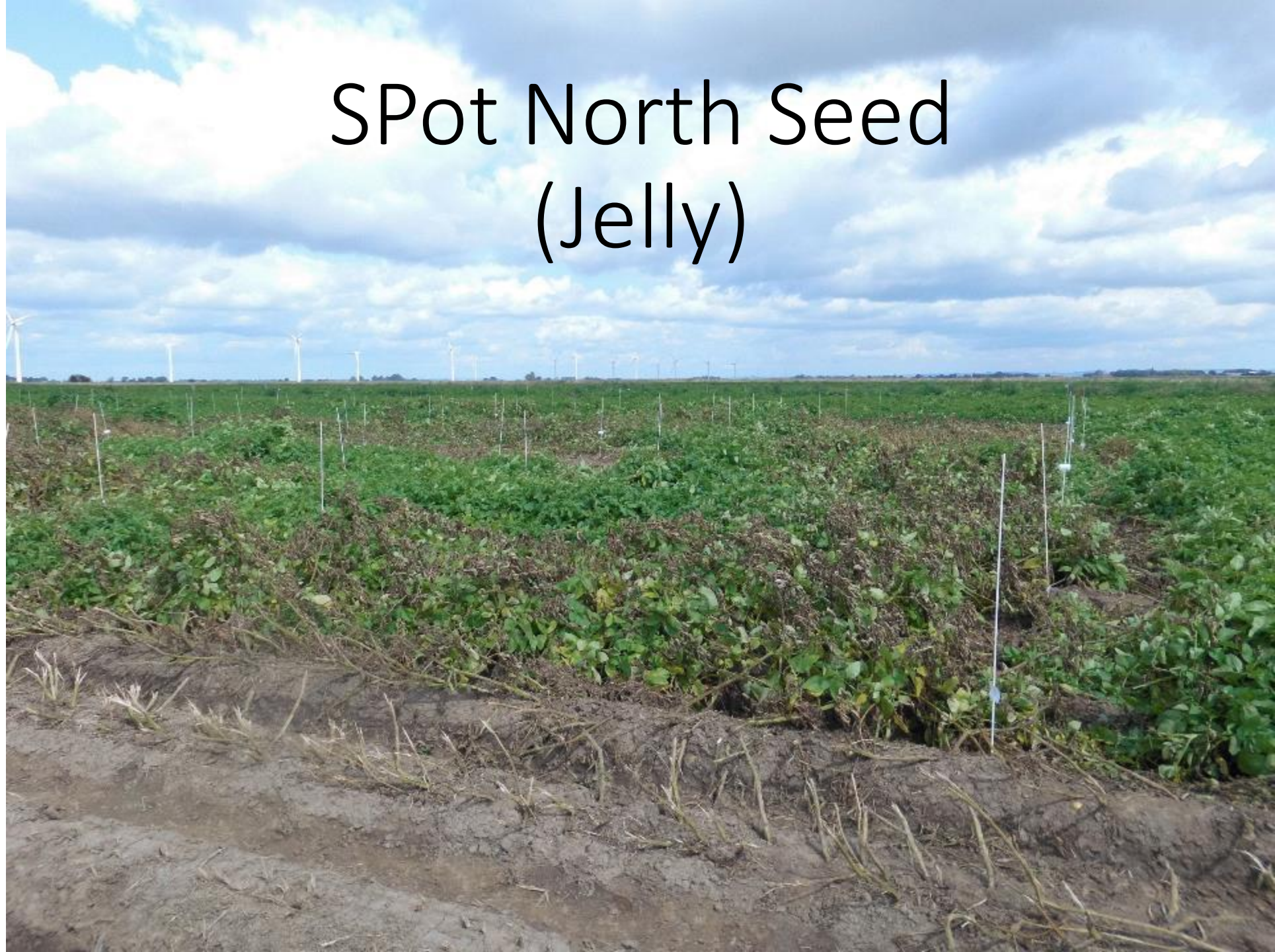


Protocol

- Target vigorous, complete canopies at close to commercial defoliation timings
- N fertilizer determined by RB209
- AZO + Tee-jet OPOZ flat fan 110° nozzles
- 400 l/ha (except Saltex)
- 3 bar pressure
- 3.6 m sprayed width
- 4- or 6-row plots
- Middle 2/4 rows assessed



SPot North Seed (Jelly)



Seed treatments (all rates in l/ha)

Treat	T1	T2	T3
1	Reglone 1.5 + Ranman Top 0.5	Reglone 2.5 + Ranman Top 0.5	
2	Flail + Spotlight 1.0 + Ranman Top 0.5	Ranman Top 0.5	
3	Flail + Spotlight 1.0 + Gozai 0.8 + Ranman Top 0.25	Ranman Top 0.5	
4	Gozai 0.8 + Toil 1.5 + Ranman Top 0.25	Spotlight 1.0 + Ranman Top 0.5	
5	Spotlight 1.0 + Ranman Top 0.5	Gozai 0.8 + Toil + Ranman Top 0.25	
6	Spotlight 1.0 + Gozai 0.8 + Toil 1.5 + Ranman Top 0.25	Spotlight 0.6 + Gozai 0.8 + Toil 1.5 + Ranman Top 0.25	
7	Finalsan 67 + Ranman Top 0.5	Spotlight 1.0 + Ranman Top 0.5	
8	No desiccant. Ranman Top 0.5	No desiccant. Ranman Top 0.5	
9	Spotlight 1.0 + Ranman Top 0.5	Gozai 0.8 + Toil 1.5 + Ranman Top 0.25	Spotlight 0.6 + Ranman Top 0.5
10	Haulm puller, simulated by hand. No fungicide		

Ground cover (%)

Treatment	T1	T2	T3	01-Aug	07-Aug	14-Aug	21-Aug
1	Reglone	Reglone		100	18	0	0
2	Flail+Spotlight			100	0	0	0
3	Flail+Gozai			100	0	0	0
4	Gozai	Spotlight		100	42	1	0
5	Spotlight	Gozai		100	41	10	2
6	Spotlight + Gozai	Spotlight + Gozai		100	42	2	0
7	Pelargonic acid	Spotlight		100	71	21	9
8	None	None		100	99	97	95
9	Spotlight	Gozai	Spotlight	100	52	5	0
10	Haulm pulling			100	0	0	0
	S.E. (27 D.F.)			0.2	6.4	3.6	1.7
	Control (None)			100	99	97	95
	Reglone			100	18	0	0
	Pelargonic acid			100	71	21	9
	Spotlight/Gozai			100	44	5	<1
	Flail/haulm pulling			100	0	0	0

Ground cover: 1 August (T1)

- Conditions
 - Time: 11:27-13:38
 - Wind: 12 km/h
 - Temperature: 18-20 °C
 - RH: 88 %
 - Cloud cover: 90 %
 - SMD: 0 mm
 - Rain within 1 hour: 0 mm

Pre-
application



Post-flail



Post-flail
compaction



Post-haulm
pulling



Ground cover: 7 August (T2)

- Conditions
 - Time: 10:48-12:08
 - Wind: 8 km/h
 - Temperature: 17 °C
 - RH: 78 %
 - Cloud cover: 70 %
 - SMD: 10 mm
 - Rain within 1 hour: 0 mm

None



Flail



Haulm-
puller



Reglone



Spotlight
&/or
Gozai



Pelargonic
acid



Ground cover: 14 August (T3)

- Conditions
 - Time: 09:00-09:10
 - Wind: 1 km/h
 - Temperature: 15 °C
 - RH: 91 %
 - Cloud cover: 80 %
 - SMD: 5 mm
 - Rain within 1 hour: 0 mm

None



Flail



Haulm-
puller



Reglone



Spotlight
&/or
Gozai



Pelargonic
acid



Skinning
barrel



Skinning (% surface area removed in barrel) in Jelly

Treatment	T1 (1 August)	T2	T3	14-Aug	21-Aug	28-Aug
1	Reglone	Reglone		53	32	19
2	Flail + Spotlight			51	29	21
3	Flail + Gozai			46	33	18
4	Gozai	Spotlight		53	35	13
5	Spotlight	Gozai		55	40	16
6	Spotlight + Gozai	Spotlight +Gozai		54	36	12
7	Pelargonic acid	Spotlight		54	35	17
8	None	None		65	52	52
9	Spotlight	Gozai	Spotlight	52	38	12
10	Haulm pulling			44	21	13
	S.E. (27 D.F.)			3.6	3.0	3.4
	Control (None)			65	52	52
	Reglone			53	32	19
	Pelargonic acid	< 15 % is harvester-suitable		54	36	12
	Spotlight/Gozai	Skinset after ≈ 21 days		54	37	13
	Flail			49	31	20
	Haulm pulling			44	21	13

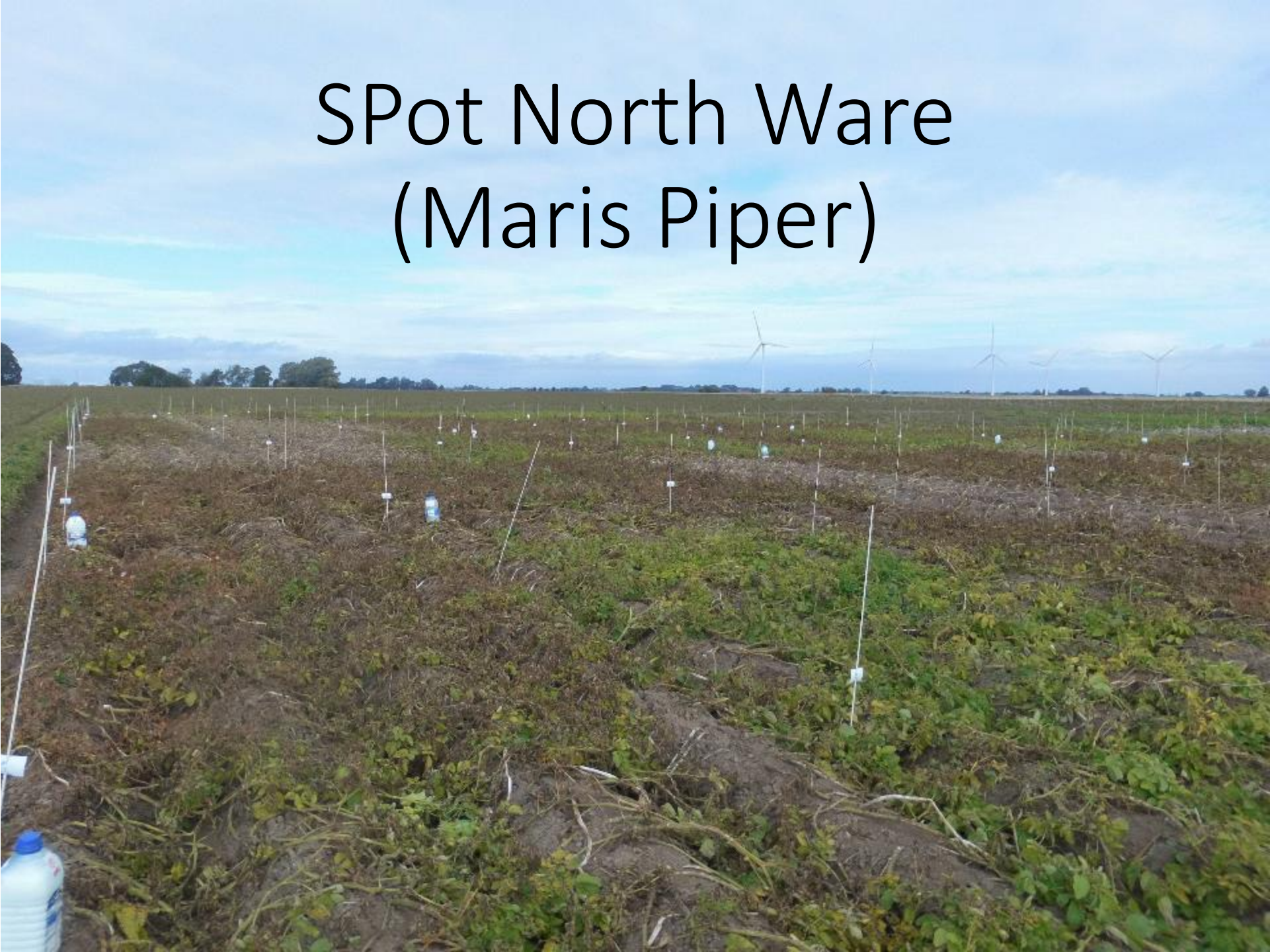
Vascular browning & stem-end necrosis (%)

Treatment	T1	T2	T3	Vascular browning	Stem-end necrosis
1	Reglone	Reglone		1	0
2	Flail + Spotlight			2	1
3	Flail + Gozai			1	0
4	Gozai	Spotlight		3	0
5	Spotlight	Gozai		2	0
6	Spotlight + Gozai	Spotlight + Gozai		2	1
7	Pelargonic acid	Spotlight		1	0
8	None	None		2	0
9	Spotlight	Gozai	Spotlight	2	1
10	Haulm pulling			1	0
	S.E. (27 D.F.)			0.5	0.3
	Control (None)			2	0
	Reglone			1	0
	Pelargonic acid			1	0
	Spotlight/Gozai			2	1
	Flail			2	1
	Haulm pulling			1	0

Yield (t/ha)

Treatment	T1	T2	T3	Total	>25-60 mm	>60 mm
1	Reglone	Reglone		47.4	30.0	17.4
2	Flail + Spotlight			45.7	29.0	16.8
3	Flail + Gozai			47.5	28.4	18.0
4	Gozai	Spotlight		49.8	26.4	23.3
5	Spotlight	Gozai		49.1	26.7	22.5
6	Spotlight + Gozai	Spotlight + Gozai		47.9	27.5	20.5
7	Pelargonic acid	Spotlight		51.8	31.3	20.6
8	None	None		60.0	21.3	38.8
9	Spotlight	Gozai	Spotlight	47.9	29.0	14.9
10	Haulm pulling			49.9	34.8	15.0
	S.E. (27 D.F.)			3.06	3.37	3.09
	Control (None)			60.0	21.3	38.8
	Reglone			47.4	30.0	17.4
	Pelargonic acid			51.8	31.3	20.6
	Spotlight/Gozai			48.7	27.8	20.3
	Flail/haulm pulling			47.7	30.7	16.6

SPot North Ware (Maris Piper)



Ware treatments (all rates in l/ha)

Treat	T1	T2	T3
1	Reglone 1.5 + Ranman Top 0.5	Reglone 2.5 + Ranman Top 0.5	
2	Flail + Spotlight 1.0 + Ranman Top 0.5	Ranman Top 0.5	
3	Flail + Spotlight 1.0 + Gozai 0.8 + Ranman Top 0.25	Ranman Top 0.5	
4	Gozai 0.8 + Toil 1.5 + Ranman Top 0.25	Spotlight 1.0 + Ranman Top 0.5	
5	Spotlight 1.0 + Ranman Top 0.5	Gozai 0.8 + Toil + Ranman Top 0.25	
6	Spotlight 1.0 + Shinkon 0.25	Gozai 0.8 + Toil + Shinkon 0.25	
7	Spotlight 1.0 + Gozai 0.8 + Toil 1.5 + Ranman Top 0.25	Spotlight 0.6 + Gozai 0.8 + Toil 1.5 + Ranman Top 0.25	
8	No desiccant. Ranman Top 0.5	No desiccant. Ranman Top 0.5	
9	Finalsan 67 + Ranman Top 0.5	Spotlight 1.0 + Ranman Top 0.5	
10	Spotlight 1.0 + Ranman Top 0.5	Gozai 0.8 + Toil 1.5 + Ranman Top 0.25	Spotlight 0.6 + Ranman Top 0.5
11	Saltex 1123 + Ranman Top 0.5	Spotlight 1.0 + Ranman Top 0.5	

Ground cover Maris Piper SPot North (%)

Treatment	T1 (5 September)	T2	T3	05-Sep	12-Sep	19-Sep	26-Sep
1	Reglone	Reglone		99	7	0	0
2	Flail + Spotlight			98	0	0	0
3	Flail + Gozai			98	0	0	0
4	Gozai	Spotlight		99	21	1	0
5	Spotlight	Gozai		99	10	2	0
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		98	14	0	0
7	Spotlight + Gozai	Spotlight + Gozai		99	12	0	0
8	None	None		99	87	46	32
9	Pelargonic acid	Spotlight		99	38	2	0
10	Spotlight	Gozai	Spotlight	99	13	2	0
11	Saltex	Spotlight		99	2	0	0
	S.E. (30 D.F.)			0.5	3.0	2.0	1.1
	Control (None)			99	87	46	32
	Reglone			99	7	0	0
	Pelagonic acid	Virtually no leaf after 14 days		99	38	2	0
	Spotlight/Gozai			99	15	1	0
	Flail			98	0	0	0
	Saltex			99	2	0	0

Ground cover: 5 September (T1)

- Conditions
 - Time: 10:00-12:30
 - Wind: 10 km/h
 - Temperature: 18 °C
 - RH: 90 %
 - Cloud cover: 50 %
 - SMD: 10 mm
 - Rain within 1 hour: 0 mm

Pre-
application



Post-flail



Ground cover: 12 September (T2)

- Conditions
 - Time: 10:00-12:30
 - Wind: 4 km/h
 - Temperature: 18 °C
 - RH: 82 %
 - Cloud cover: 70 %
 - SMD: 15 mm
 - Rain within 1 hour: 0 mm

None



Flail



Reglone



Spotlight
and/or
Gozai



Pelargonic
acid



Saltex



Ground cover: 19 September (T3)

- Conditions
 - Time: 12:40-12:50
 - Wind: 2 km/h
 - Temperature: 20 °C
 - RH: 61 %
 - Cloud cover: 10 %
 - SMD: 10 mm
 - Rain within 1 hour: 0 mm

None



Flail



Reglone



Spotlight
and/or
Gozai



Pelargonic acid



Saltex



Skinning
barrel



Skinning (% surface area removed in barrel)

Treatment	T1 (5 September)	T2	T3	19-Sep	26-Sep
1	Reglone	Reglone		5.0	0.9
2	Flail + Spotlight			5.4	0.8
3	Flail + Gozai			5.4	0.9
4	Gozai	Spotlight		6.2	1.2
5	Spotlight	Gozai		5.6	1.2
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		5.2	1.2
7	Spotlight + Gozai	Spotlight + Gozai		6.1	0.9
8	None	None		8.3	3.0
9	Pelargonic acid	Spotlight		6.5	1.8
10	Spotlight	Gozai	Spotlight	5.9	1.2
11	Saltex	Spotlight		5.7	0.9
	S.E. (30 D.F.)			0.56	0.37
	Control (None)			8.3	3.0
	Reglone	Skinset after 14 days		5.0	0.9
	Pelargonic acid			6.5	1.8
	Spotlight/Gozai			5.8	1.1
	Flail			5.4	0.9
	Saltex			5.7	0.9

None



Reglone



Flail



Spotlight
&/or
Gozai



Pelargonic
acid



Saltex



SPOT
NORTH
T 4

Vascular browning & stem-end necrosis (%)

Treatment	T1	T2	T3	Vascular browning	Stem-end necrosis
1	Reglone	Reglone		TBC	TBC
2	Flail + Spotlight				
3	Flail + Gozai				
4	Gozai	Spotlight			
5	Spotlight	Gozai			
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)			
7	Spotlight + Gozai	Spotlight + Gozai			
8	None	None			
9	Pelargonic acid	Spotlight			
10	Spotlight	Gozai	Spotlight		
11	Saltex	Spotlight			
	S.E. (30 D.F.)				
	Control (None)				
	Reglone				
	Pelargonic acid				
	Spotlight/Gozai				
	Flail				
	Saltex				

Yield (t/ha)

Treatment	T1	T2	T3	Total	>40 mm	>80 mm
1	Reglone	Reglone		53.5	52.0	1.4
2	Flail + Spotlight			57.1	54.9	1.6
3	Flail + Gozai			55.8	54.2	0.0
4	Gozai	Spotlight		52.7	51.2	3.6
5	Spotlight	Gozai		54.0	52.5	3.1
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		56.9	55.4	5.4
7	Spotlight + Gozai	Spotlight + Gozai		55.9	54.1	1.5
8	None	None		64.6	62.5	5.1
9	Pelargonic acid	Spotlight		56.7	55.4	0.8
10	Spotlight	Gozai	Spotlight	58.7	56.9	0.0
11	Saltex	Spotlight		58.5	56.2	0.0
	S.E. (30 D.F.)			4.95	4.86	1.65
	Control (None)			64.6	62.5	5.1
	Reglone			53.5	52.0	1.4
	Pelargonic acid			56.7	55.4	0.8
	Spotlight/Gozai			55.6	54.0	2.7
	Flail			56.5	54.6	0.8
	Saltex			58.5	56.2	0.0

Elveden Ware (Royal)



Ground cover (%)

Treatment	T1 (4 September)	T2	T3	04-Sep	11-Sep	18-Sep	25-Sep	02-Oct
1	Reglone	Reglone		97	27	0	0	0
2	Flail + Spotlight			97	0	0	0	0
3	Flail + Gozai			99	0	0	0	0
4	Gozai	Spotlight		99	77	23	2	0
5	Spotlight	Gozai		98	74	25	8	0
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		99	93	23	4	0
7	Spotlight + Gozai	Spotlight + Gozai		99	85	19	1	0
8	None	None		98	92	72	47	33
9	Pelargonic acid	Spotlight		100	95	52	10	0
10	Spotlight	Gozai	Spotlight	97	83	20	1	0
11	Saltex	Spotlight		99	78	3	0	0
	S.E. (30 D.F.)			0.7	5.8	6.2	4.9	2.1
	Control (None)			98	92	72	47	33
	Reglone			97	27	0	0	0
	Pelagonic acid			100	95	52	10	0
	Spotlight/Gozai			98	78	22	3	0
	Flail	Much slower kill for non-Reglone chemical treatments		98	0	0	0	0
	Saltex			99	78	3	0	0

Ground cover: 4 September (T1)

- Conditions
 - Time: 09:45-12:55
 - Wind: 12 km/h
 - Temperature: 18 °C
 - RH: 52-87 %
 - Cloud cover: 50 %
 - SMD: 20 mm
 - Rain within 1 hour: 0 mm

Pre-
application



Post-flail



Flail



Ground cover: 11 September (T2)

- Conditions
 - Time: 10:00-11:45
 - Wind: 20 km/h
 - Temperature: 18 °C
 - RH: 80 %
 - Cloud cover: 80 %
 - SMD: 25 mm
 - Rain within 1 hour: 0.1 mm

None



Flail



Reglone



Spotlight
and/or
Gozai



Pelargonic acid



Saltex



Ground cover: 18 September (T3)

- Conditions
 - Time: 09:11-09:25
 - Wind: 3 km/h
 - Temperature: 12 °C
 - RH: 87 %
 - Cloud cover: 20 %
 - SMD: 25 mm
 - Rain within 1 hour: 0 mm

None



Flail



Reglone



Spotlight
and/or
Gozai



Pelargonic
acid



Saltex



Ground cover: 25 September

None



Flail



Reglone



Spotlight
and/or
Gozai



Pelargonic
acid



Saltex



Skinning
barrel



Skinning (incidence with >1% SA skinned, %)

Treatment	T1	T2	T3	18-Sep	25-Sep	02-Oct
1	Reglone	Reglone		100	98	96
2	Flail + Spotlight			100	98	95
3	Flail + Gozai			100	99	95
4	Gozai	Spotlight		99	93	93
5	Spotlight	Gozai		100	99	97
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		100	100	97
7	Spotlight + Gozai	Spotlight + Gozai		100	98	95
8	None	None		99	100	100
9	Pelargonic acid	Spotlight		100	98	96
10	Spotlight	Gozai	Spotlight	100	99	93
11	Saltex	Spotlight		100	97	96
	S.E. (30 D.F.)			0.4	1.7	1.7
	Control (None)			99	100	100
	Reglone			100	98	96
	Pelargonic acid			100	98	96
	Spotlight/Gozai			100	98	95
	Flail			100	99	95
	Saltex			100	97	96

Skinning (% surface area removed in barrel)

Treatment	T1 (4 September)	T2	T3	18-Sep	25-Sep	02-Oct
1	Reglone	Reglone		43.6	11.7	8.8
2	Flail + Spotlight			56.2	11.7	11.9
3	Flail + Gozai			53.1	12.2	12.2
4	Gozai	Spotlight		54.7	10.9	10.5
5	Spotlight	Gozai		45.6	10.8	9.1
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		53.2	12.3	13.0
7	Spotlight + Gozai	Spotlight + Gozai		49.2	12.5	10.7
8	None	None		54.6	23.0	26.3
9	Pelargonic acid	Spotlight		57.6	16.2	11.5
10	Spotlight	Gozai	Spotlight	48.8	11.2	10.7
11	Saltex	Spotlight		56.5	13.1	13.0
	S.E. (30 D.F.)			3.77	2.42	1.12
	Control (None)			54.6	23.0	26.3
	Reglone			43.6	11.4	8.8
	Pelargonic acid			57.6	16.2	11.5
	Spotlight/Gozai	Skinset after ≈ 21 days		50.3	11.5	10.8
	Flail			54.7	12.0	12.1
	Saltex			56.5	13.1	13.0

None



Reglone



Flail



Spotlight
&/or
Gozai



Pelargonic
acid



Saltex



Vascular browning & stem-end necrosis (%)

Treatment	T1	T2	T3	Vascular browning	Stem-end necrosis
1	Reglone	Reglone		26	3.0
2	Flail + Spotlight			27	3.0
3	Flail + Gozai			34	1.0
4	Gozai	Spotlight		28	1.0
5	Spotlight	Gozai		27	2.0
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		27	3.0
7	Spotlight + Gozai	Spotlight + Gozai		25	2.0
8	None	None		28	0.0
9	Pelargonic acid	Spotlight		31	1.0
10	Spotlight	Gozai	Spotlight	32	4.0
11	Saltex	Spotlight		27	2.0
	S.E. (30 D.F.)			3.5	1.17
	Control (None)			28	0.0
	Reglone			26	3.0
	Pelargonic acid			31	1.0
	Spotlight/Gozai			28	2.4
	Flail			30	2.0
	Saltex			27	2.0

None



Flail



Reglone



Spotlight
and/or
Gozai



Pelargonic
acid



Saltex



Yield (t/ha)

Treatment	T1	T2	T3	Total	>40 mm	>80 mm
1	Reglone	Reglone		68.3	67.6	19.3
2	Flail + Spotlight			62.9	61.5	16.9
3	Flail + Gozai			65.3	64.2	22.4
4	Gozai	Spotlight		66.5	65.8	21.7
5	Spotlight	Gozai		72.6	71.9	18.0
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		69.4	68.5	17.8
7	Spotlight + Gozai	Spotlight + Gozai		68.1	67.4	24.3
8	None	None		78.6	77.7	24.6
9	Pelargonic acid	Spotlight		68.3	67.4	19.1
10	Spotlight	Gozai	Spotlight	72.5	71.6	19.1
11	Saltex	Spotlight		72.2	71.5	28.3
	S.E. (30 D.F.)			3.64	3.64	4.43
	Control (None)			78.6	77.7	24.6
	Reglone			68.3	67.6	19.3
	Pelargonic acid			68.3	67.4	19.1
	Spotlight/Gozai			69.8	69.4	20.2
	Flail			64.1	62.9	19.7
	Saltex			72.2	71.5	28.3

Stolon adhesion (incidence, %)

Treatment	T1	T2	T3	Detached	Easily detached	Removes plug
1	Reglone	Reglone		41.0	56.0	3.0
2	Flail + Spotlight			49.0	50.0	1.0
3	Flail + Gozai			45.0	55.0	0.0
4	Gozai	Spotlight		49.0	51.0	0.0
5	Spotlight	Gozai		52.0	46.0	2.0
6	Spotlight (+ Shinkon)	Gozai (+ Shinkon)		50.0	50.0	0.0
7	Spotlight + Gozai	Spotlight + Gozai		55.0	44.0	1.0
8	None	None		71.0	29.0	0.0
9	Pelargonic acid	Spotlight		52.0	48.0	0.0
10	Spotlight	Gozai	Spotlight	43.0	55.0	2.0
11	Saltex	Spotlight		55.0	45.0	0.0
	S.E. (30 D.F.)			4.80	4.66	0.71
	Control (None)			71.0	29.0	0.0
	Reglone	Stolons adhere more when defoliated		41.0	56.0	3.0
	Pelargonic acid			52.0	48.0	0.0
	Spotlight/Gozai			49.8	49.2	1.0
	Flail			47.0	52.5	0.5
	Saltex			55.0	45.0	0.0



Ground cover summary

- Flail and haulm-pulling instant canopy death
- No regrowth within 4 weeks of T1 in any treatment inc. flail
- Reglone and Saltex most effective in removing leaves. Saltex efficacy dependent on atmospheric conditions
- Spotlight and/or Gozai straights or combinations all similar, but only 2-4 days slower in killing leaves than Reglone. Initial kill may be slow
- Pelargonic acid slowest to act on leaves
- Stem desiccation data still to be analysed, but large varietal difference in speed of desiccation

Skinset summary (3 weeks post-T1): 5 experiments + 2 demonstrations

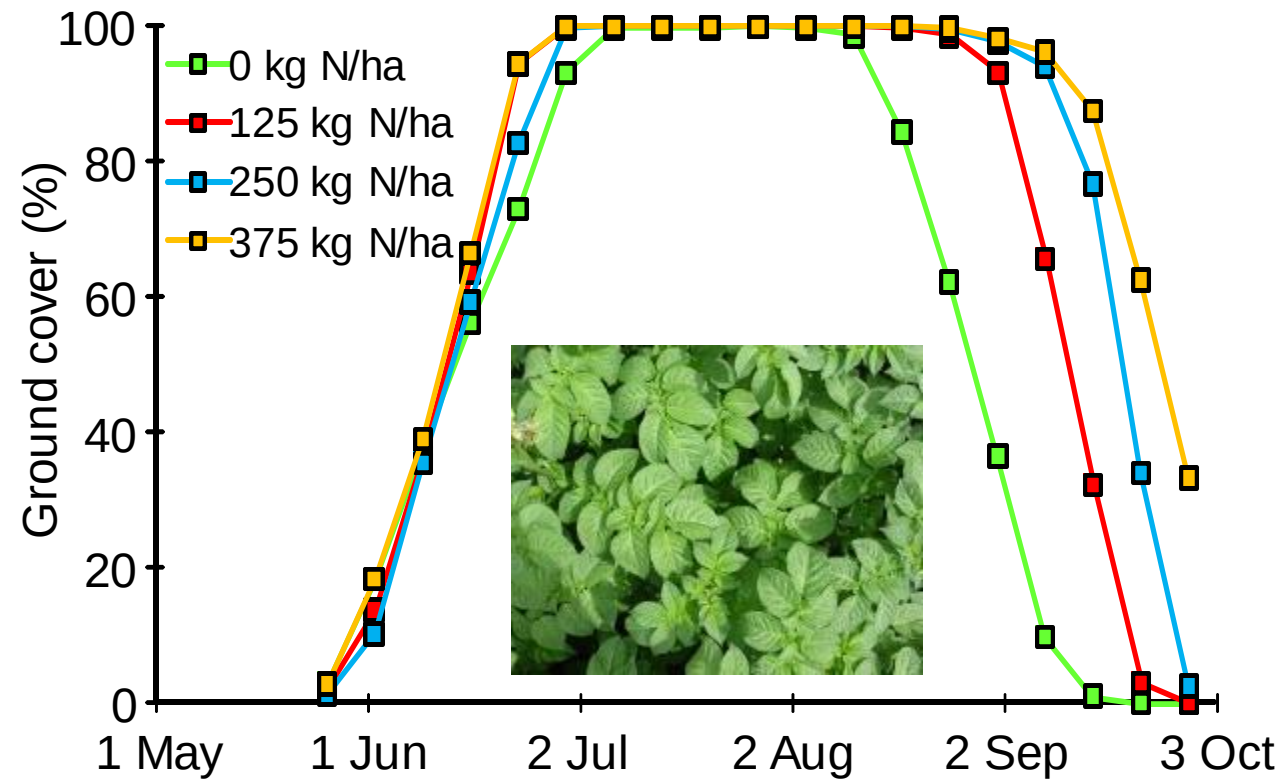
Treatment	Skinning (% SA)
Control (None)	33.0
Reglone	19.9
Pelargonic acid	23.8
Spotlight/Gozai	22.9
Flail/haulm pulling	19.7
(Saltex) [†]	(16.4) [†]

[†]5 trials only

Skinset summary

- Not defoliating slows skinset, but not always immediately
- Spotlight/Gozai combinations no different to Reglone, flail, haulm-pulling or Saltex in terms of skinset at 3 weeks post-T1
- Two crops (Georgina and Maris Piper ware) were fully skinset after 2 weeks. Jelly seed and Scottish crops 4 weeks. Royal not set sufficiently even after 4 weeks
- Yield: no significant difference across methods: typically 10 t/ha yield gain by undefoliated crops in 3 weeks from T1
- No effect of defoliation method, chemical or timing on vascular browning or stem-end necrosis
- Stolon detachment. No problems in Jelly, Maris Piper and Georgina but some adhesion in Royal. Undefoliated crops less attachment. Virtually no stolon plug removal in any crop

Effect of N application rate on canopy persistence in Brooke (CUF 2007-9)



No effect of N rate on black dot

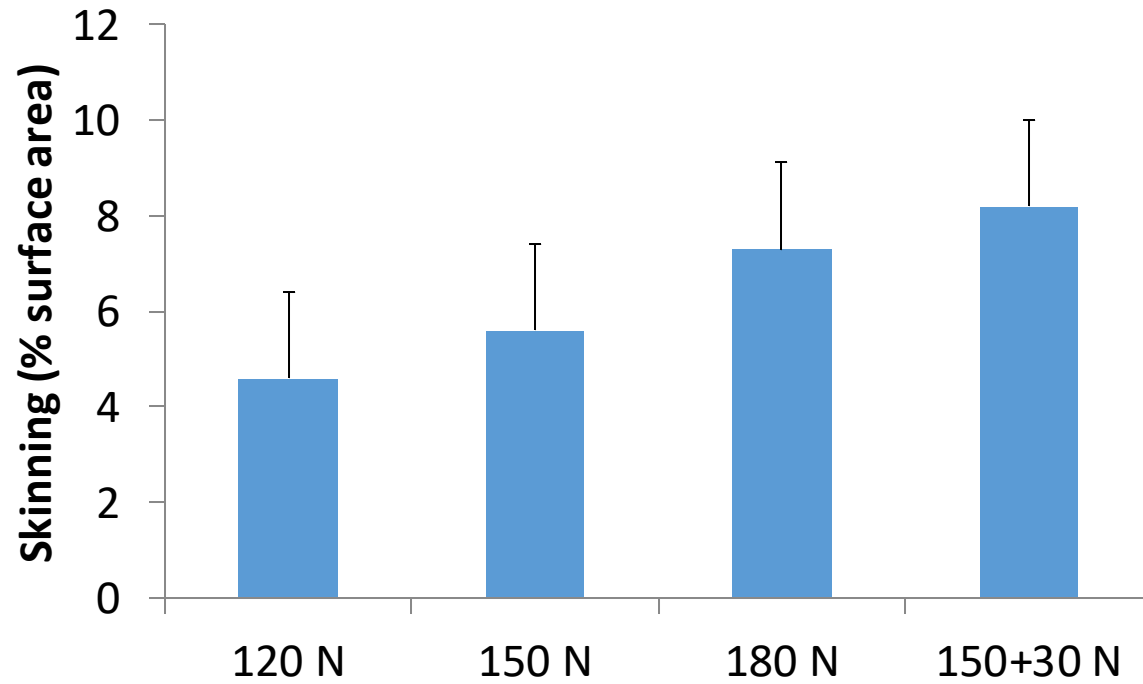


Nitrogen	Incidence (%)	Proportion <5 % SA (%)	Severity (% SA)
180	56.4	74.8	4.97
210	55.4	74.8	6.12
240	50.2	77.0	5.65
270	57.5	73.9	5.60
S.E. (30 D.F.)	3.60	2.83	0.783

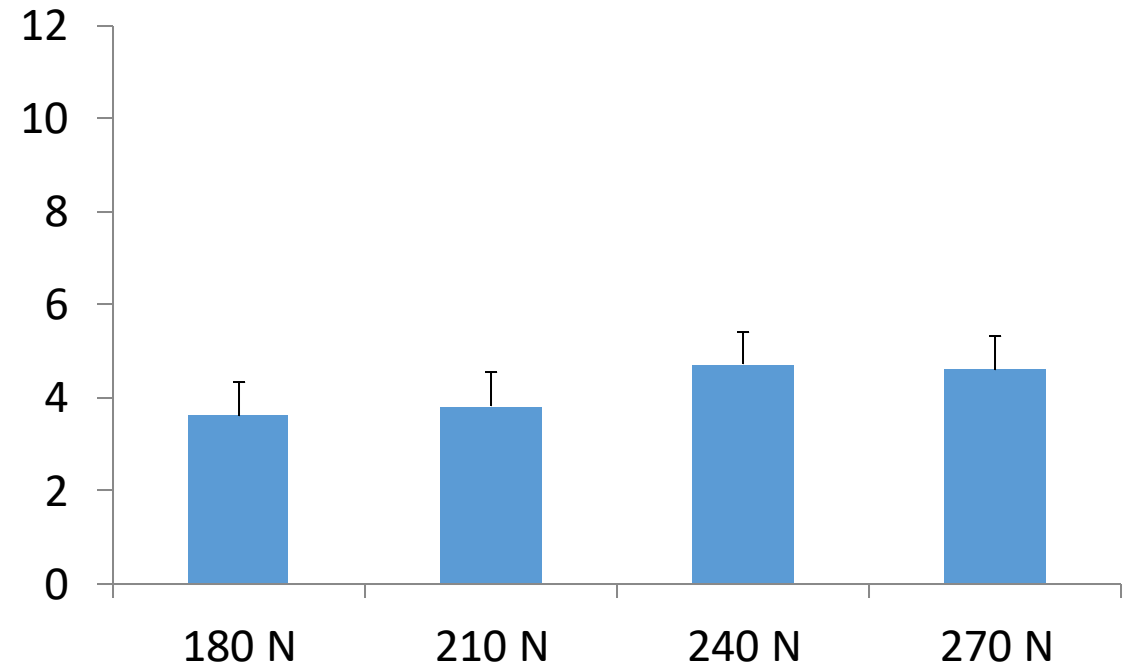
Source: SPot East 2018

Increased N delays skinset

SPot North 2018 Maris Piper



SPot East 2018 Estima



AHDB Potato Desiccation Project 2019

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