STRATEGIC POTATO FARMS





Strategic Farm North

Results Day || 23.1.19





To plant headlands or not?

Will Gagg (RJ & AE Godfrey) and Richard Wilson (R S Cockerill)



What and why?



- Should headlands be planted?
- What is the average yield difference?
- What is the difference in crop quality between the inside of the field and the headlands?
- What are the cost implications? On farm and at packing
 - Productivity
 - Time
- Alternatives?
- Conclusions



Headland diagram





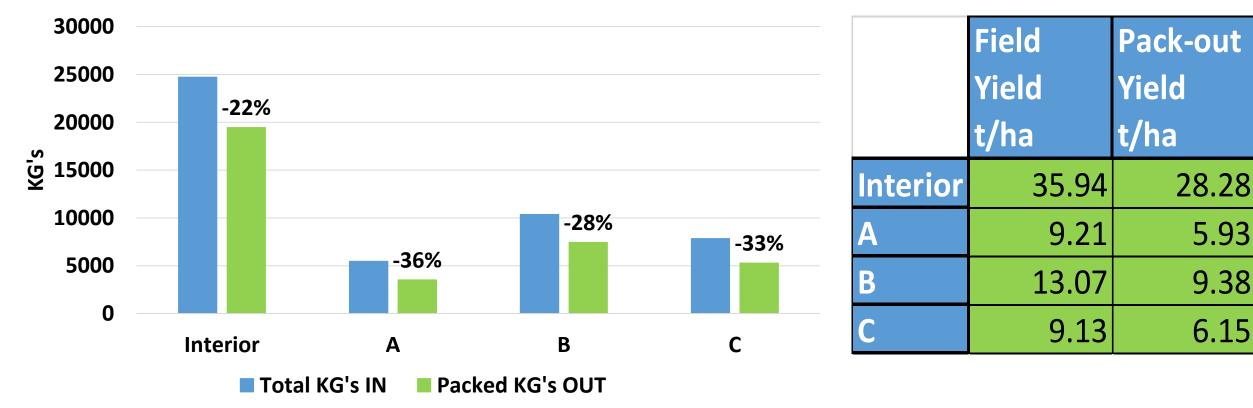




Pack-out and yield



Pack-out



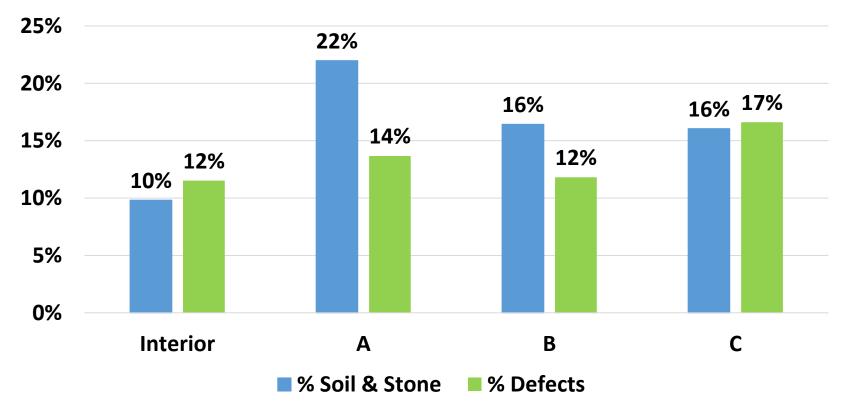
Average of headland (components A, B & C) 32%



Soil, stone and defects



Topline waste by type

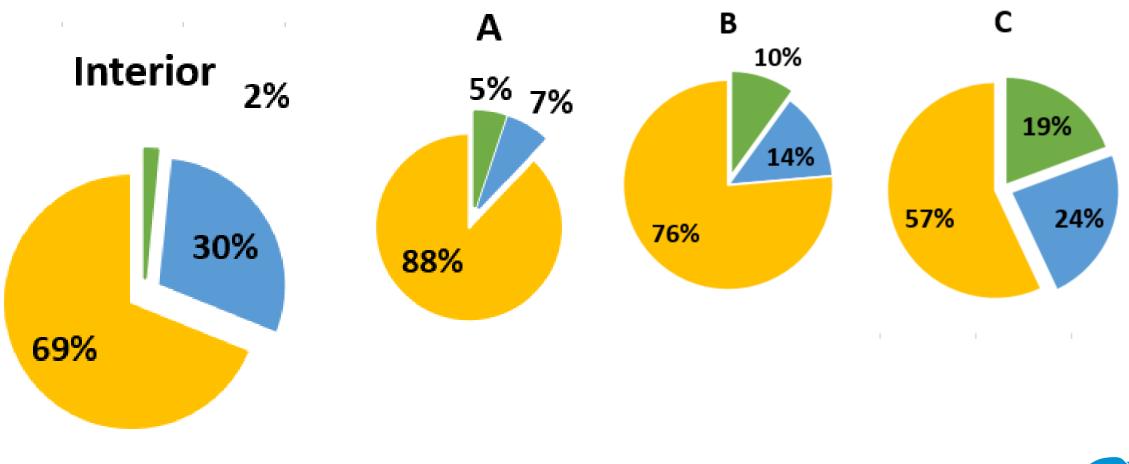


Average of headland (components A, B & C) – Soil & Stone 18%, defects 14%



Defects by type





Greens
Damage
Scab



Timings- Planting & Harvest AHDB

Planting

- Average planting time = 1.01 Ha/hr
- Headlands recorded as taking 3 times longer to plant
- Headlands have to be dragged again before planting

Harvest

- Average harvest time = 1.35 Ha/hr
- Headlands recorded as taking 2.5 times longer to harvest
- First 3 beds take 3.5 times longer
- This time is reduced using a self propelled harvester



Cost implications on farm



- Average cost of packing crop =£7,200/ha
- 25% of this is on machinery and labour at planting/ harvest.
- With planting and harvest taking 2.5 times longer to complete it would add £2,700/ha to the cost.
- If we then overlay this with the reduced yield achieved on headlands we can gauge the true cost of headlands.



Cost implications on farm



	Field yield	Pack-out yield
Interior	£ 200.33	£ 254.60
Α	£ 1,074.92	£ 1,669.48
В	£ 757.46	£ 1,055.44
С	£ 1,084.34	£ 1,609.76

This is an extreme year where weather has had a major impact on yields and as such the cost/ ha is very high.

However this does show that even in a year where the freebuy price is high, planting headlands still might not make sense.

Cost implications at packing AHDB

- Top line Waste +10% difference headlands vs interior
 - AHDB 4yr average Maris Piper free-buy price (£199/t) = £19 /t cost to the industry.
- Throughput runtime inefficiencies.
 - 20% less kg/hr headlands vs interior
 - +12 minutes longer required to pack same volume of potatoes
- Labour requirement
 - Increase in number of graders 4 to 5 = +25% labour, £7.83/hr NMW.
 - Increase in time £5.16/t/hr vs £8.02/t/hr NWM.



Opportunistic alternatives? AHDB

- Run-off prevention
- Trap crops/ fumigant
- Functional benefits- soil structure, easier turning...
- Wind break -soil erosion
- ELS/ HLS?



Conclusions



- Individual fields will be different
- Seed price and availability
- Individual grower assessment
- Varietal and market choice
- Is it viable?





Upcoming events

SPot Results days & Storage events		
23 January	Strategic Farm North - results	
24 January	Storage event - West	
30 January	Spot West - results	
12 February	Roadshow – Cambs/Suff/Essex	
13 February	Roadshow – South. Linc's	
26 February	Roadshow - Norfolk	
28 February	Spot Scotland - results	
5 March	Storage event – East Mid's	
6 March	Roadshow - Cheshire	
7 March	Roadshow – North. York's	

Agronomy events		
5 February	Worcestershire	
7 February	Suffolk	
12 February	Vale of Glamorgan	
12 February	North Yorkshire	
21 February*	Berkshire	
27 February	Wiltshire	

Provisional SPot North dates AHDB

Note the change of location: Eastoft in 2019

- Field walk 6th June 2019
- Open day 16th July 2019
- Field walk 15th August 2019
- Haulm destruction day- date TBC



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