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ERDF 'WATERR' PROJECT

IRRIGATION BUSINESS REVIEW FINDINGS

IRRIGATOR PERFORMANCE DATA: POTATOES



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IRRIGATION PRODUCTIVITY/ADDED VALUE

		2011	2012	2013
IRRIGATION WATER APPLIED				
Cubic Meters per hectare	Range	684 – 1,500	115 – 1,500	250 – 1,775
	Average	1,062	556	1,039
YIELDS				
Tonnes per hectare	Range	25 - 56	20 – 53	25 – 55
	Average	42	38	44
PRODUCTIVITY: WATER USED PER TONNE				
Cubic meters per tonne	Range	15 – 54	3 – 28	5 - 44
	Average	27	14	25
ESTIMATED YIELD INCREASE DUE TO IRRIGATION				
Tonnes per hectare	Range	7 – 26	5 – 25	5 – 28
	Average	14	12	14
	%age of total yield	33%	32%	32%
AVERAGE SELLING PRICE				
£ per tonne	Range	95 – 300	90 – 439	145 – 330
	Average	188	270	210
ESTIMATED PRICE PREMIUM DUE TO IRRIGATION				
£ per tonne	Range	12 – 150	30 – 155	15 - 150
	Average	68	82	60
	%age of selling price	36%	30%	29%



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IRRIGATION FINANCIAL RETURNS

		2011	2012	2013
GROSS PROCEEDS				
£ per Hectare (Yield per Hectare x Price per Tonne)	Range	4,113 – 14,400	4,400 – 17,077	6,649 – 14,415
	Average	7,808	7,438	9,008
COST OF IRRIGATION				
£ per hectare	Range	179 – 1,813	108 – 3,030	290 – 3,637
	Average	707	612	1,055
IRRIGATION GROSS MARGIN (Gross Proceeds – Irrigation Cost)				
£ per hectare	Range	3,499 – 13,693	3,968 – 16,850	6,021 – 13,590
	Average	7,101	6,989	7,953
ESTIMATED IRRIGATION PRICE PREMIUM PER HECTARE				
£ per hectare	Range	672 – 6,675	1276 – 6029	705 – 6,300
	Average	2,764	3,033	2,464
ESTIMATED YIELD INCREASE VALUE PER HECTARE				
£ per hectare	Range	428 – 3,200	969 – 4,128	578 – 6,750
	Average	1,651	2,120	2,055
ESTIMATED NET FINANCIAL BENEFIT DUE TO IRRIGATION (Estimated yield increase + price premium – cost of irrigation)				
£ per hectare	Range	1,515 – 7,740	2,152- -8,642	1,657 – 7,495
	Average	3,708	4,540	3,464
NET FINANCIAL BENEFIT AS PERCENTAGE OF PROCEEDS		47%	61%	38%
Percent				





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