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ERDF 'WATERR' PROJECT

IRRIGATION BUSINESS REVIEW FINDINGS

IRRIGATOR PERFORMANCE DATA: FIELD RASPBERRIES



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IRRIGATION PRODUCTIVITY/ADDED VALUE

		2011	2012	2013
IRRIGATION WATER APPLIED				
Cubic Meters per hectare	Range	720 – 1,523	543 – 1,380	954 – 1,442
	Average	1,108	959	1,177
YIELDS				
Tonnes per hectare	Range	7 – 14	10 – 17	5 – 12
	Average	10	13	8
PRODUCTIVITY: WATER USED PER TONNE				
Cubic meters per tonne	Range	72– 120	51 – 98	92 – 200
	Average	101	76	153
ESTIMATED YIELD INCREASE DUE TO IRRIGATION				
Tonnes per hectare	Range	5 – 14	5 – 17	3 – 10
	Average	8	9	6
	%age of Total yield	80%	69%	75%
AVERAGE SELLING PRICE				
£ per tonne	Range	5,500 – 6,540	5,020 – 7,620	5,190 – 7,820
	Average	6,235	6,160	6,253
ESTIMATED PRICE PREMIUM DUE TO IRRIGATION				
£ per tonne	Range	0 – 4,000	0 – 4,000	0 – 4,000
	Average	1000	1000	1000
	%age of Selling price	16%	16%	16%



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IRRIGATION FINANCIAL RETURNS

		2011	2012	2013
GROSS PROCEEDS				
(Yield per Hectare x Price per Tonne)	Range	46,892 – 89,700	55,000 – 109,200	33,000 – 65,000
£ per Hectare	Average	69,818	78,870	50,705
COST OF IRRIGATION				
£ per hectare	Range	554 – 1,800	772 – 1,320	161 – 1,800
	Average	1,160	1,046	1,208
IRRIGATION GROSS MARGIN				
(Gross proceeds – Irrigation Cost)	Range	45,732 – 88,573	53,680 – 108,154	31,200 – 63,792
£ per hectare	Average	68,658	77,824	49,497
ESTIMATED IRRIGATION PRICE PREMIUM PER HECTARE				
£ per hectare	Range	0 – 28,680	0 – 42,520	0 – 21,760
	Average	7,170	10,630	5,440
ESTIMATED YIELD INCREASE VALUE PER HECTARE				
£ per hectare	Range	11,836 – 89,700	27,500 – 109,200	16,500 – 65,000
	Average	43,459	56,105	34,963
ESTIMATED NET FINANCIAL BENEFIT DUE TO IRRIGATION				
(Estimated yield increase + price premium – cost of irrigation)	Range	25,700 – 88,573	26,180 – 108,154	14,700 – 63,792
£ per hectare	Average	48,989	65,689	39,195
NET FINANCIAL BENEFIT AS PERCENTAGE OF PROCEEDS				
Percent		70%	83%	77%





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