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# ERDF 'WATERR' PROJECT

## IRRIGATION BUSINESS REVIEW FINDINGS

### IRRIGATOR PERFORMANCE DATA: APPLES/PEARS



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**IRRIGATION PRODUCTIVITY/ADDED VALUE**

		<b>2011</b>	<b>2012</b>	<b>2013</b>
<b>IRRIGATION WATER APPLIED</b>				
Cubic Meters per hectare	Range	60 – 706	22 – 471	72 – 860
	Average	215	122	254
<b>YIELDS</b>				
Tonnes per hectare	Range	13 – 36	19 – 40	16 – 30
	Average	25	25	25
<b>PRODUCTIVITY: WATER USED PER TONNE</b>				
Cubic meters per tonne	Range	3 – 21	1 – 12	3 – 30
	Average	8	4	10
<b>ESTIMATED YIELD INCREASE DUE TO IRRIGATION</b>				
Tonnes per hectare	Range	3 - 22	0 – 3	3 – 9
	Average	7	1	5
	%age of total yield	28%	4%	20%
<b>AVERAGE SELLING PRICE</b>				
£ per tonne	Range	300 – 780	400 – 910	280 – 950
	Average	531	728	570
<b>ESTIMATED PRICE PREMIUM DUE TO IRRIGATION</b>				
£ per tonne	Range	N/A	N/A	N/A
	Average	N/A	N/A	N/A

\*Update 160515



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**IRRIGATION FINANCIAL RETURNS**

		<b>2011</b>	<b>2012</b>	<b>2013</b>
<b>GROSS PROCEEDS</b>				
(Yield per hectare x Price per tonne)	Range	7,200 – 19,555	7,720 – 25,982	5,600 – 26,980
	Average	12,951	17,974	15,078
<b>COST OF IRRIGATION</b>				
£ per hectare	Range	90 – 1,060	33 – 707	44 – 1,789
	Average	322	158	540
<b>IRRIGATION GROSS MARGIN</b>				
(Gross proceeds – irrigation costs)	Range	6,932 – 19,407	7,657 – 25,276	7,741 – 25,191
£ per hectare	Average	12,629	17,816	14,538
<b>ESTIMATED IRRIGATION PRICE PREMIUM PER HECTARE</b>				
£ per hectare	Range	N/A	N/A	N/A
	Average	N/A	N/A	N/A
<b>ESTIMATED YIELD INCREASE VALUE PER HECTARE</b>				
£ per hectare	Range	1,800 – 11,635	0 – 2,275	1,350 – 12,600
	Average	3373	783	3,392
<b>ESTIMATED NET FINANCIAL BENEFIT DUE TO IRRIGATION</b>				
(Estimated yield increase + price premium – cost of irrigation)	Range	1,328 – 10,575	0 – 2,232	991 – 3,085
£ per hectare	Average	3,052	625	2,852
<b>NET FINANCIAL BENEFIT AS PERCENTAGE OF PROCEEDS</b>				
Percent		24%	3%	19%





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