

J K Senior & Sons 2017 Summary of this Years Spray Costs

These are independent spray costs covering 30000 acres in East Yorkshire and surrounding areas. This format monitors your spray inputs to show how you have performed through the years, you can see the high disease years, 2012, 2014, 2016 and 2017 in the wheat.

Average Annual Spray Costings/Ha.

| Winter Wheat | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Herbicides | 47.33 | 51.44 | 44.66 | 54.29 | 64.92 | 60.69 | 86.10 | 84.55 | 97.79 | 95.77 |
| Fungicides | 62.43 | 65.78 | 54.13 | 54.19 | 89.25 | 61.02 | 106.19 | 77.29 | 83.86 | 89.29 |
| Insecticides | 3.38 | 3.86 | 3.28 | 5.01 | 3.36 | 1.36 | 2.95 | 1.52 | 2.32 | 3.60 |
| Growth Regulators | 5.21 | 4.51 | 5.10 | 3.56 | 9.14 | 4.43 | 8.66 | 8.47 | 7.23 | 8.22 |
| Trace Elements | 1.65 | 1.23 | 2.44 | 2.89 | 2.07 | 1.69 | 2.63 | 2.73 | 2.33 | 2.22 |
| Molluscicides | 2.25 | 1.24 | 0.16 | 0.29 | 0.10 | 0.58 | 0.10 | 0.55 | 0.32 | 0.27 |
| Adjuvants | 1.98 | 2.35 | 2.46 | 2.08 | 1.99 | 2.10 | 1.62 | 1.12 | 1.05 | 0.97 |
| | 124.23 | 130.41 | 112.23 | 122.31 | 170.83 | 131.86 | 208.25 | 176.23 | 195.00 | 200.34 |

2017 herbicide costs are reflecting the blackgrass challenge. If you don't have blackgrass you could reduce your costs by £50 per ha.

The increase in fungicide costs is a reflection of the wet weather during flowering. Both rust and mildew were present so a robust ear wash was applied. This did help with the bushel weights this year.

Plant Growth regulators are increasing as newer varieties have a weaker straw strength.

Trace element costs are made up of mainly manganese.

We only use adjuvants when recommended by the manufacturers.

| Winter Barley | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 |
|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Herbicides | 41.55 | 53.33 | 43.52 | 50.27 | 59.51 | 62.74 | 80.60 | 87.59 | 98.68 | 99.32 |
| Fungicides | 38.84 | 46.99 | 44.58 | 42.29 | 56.66 | 35.82 | 62.35 | 49.03 | 46.35 | 54.68 |
| Insecticides | 1.61 | 1.87 | 1.48 | 0.96 | 1.00 | 1.06 | 0.96 | 0.93 | 1.09 | 1.70 |
| Growth Regulators | 7.35 | 5.78 | 6.79 | 4.08 | 7.01 | 6.15 | 8.04 | 5.68 | 6.06 | 6.10 |
| Trace Elements | 2.04 | 3.23 | 2.49 | 2.84 | 3.11 | 2.92 | 3.05 | 3.40 | 2.72 | 3.24 |
| Molluscicides | 0.02 | 0.45 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.34 | 0.04 | 0.10 |
| Adjuvants | 0.73 | 1.92 | 1.53 | 1.75 | 1.98 | 2.89 | 1.42 | 1.32 | 1.36 | 1.37 |
| | 92.14 | 113.57 | 100.39 | 102.19 | 129.27 | 111.65 | 156.42 | 148.29 | 156.30 | 166.51 |

| Oilseed Rape | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Herbicides | 68.20 | 84.90 | 79.52 | 73.69 | 71.86 | 75.72 | 93.63 | 89.09 | 89.57 | 93.75 |
| Fungicides | 17.82 | 23.24 | 23.68 | 23.58 | 29.55 | 13.42 | 36.88 | 21.35 | 32.05 | 33.37 |
| Insecticides | 1.08 | 1.58 | 1.65 | 3.98 | 1.53 | 1.37 | 1.20 | 3.29 | 3.34 | 14.15 |
| Growth Regulators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.10 | 0.05 |
| Trace Elements | 1.07 | 1.75 | 0.15 | 1.95 | 1.00 | 0.09 | 1.81 | 0.41 | 0.41 | 0.34 |
| Molluscicides | 1.92 | 3.40 | 0.37 | 1.67 | 0.61 | 1.43 | 0.55 | 2.77 | 2.53 | 2.02 |
| Adjuvants | 0.53 | 0.76 | 0.27 | 0.55 | 0.91 | 1.00 | 0.78 | 0.88 | 1.02 | 0.67 |
| | 90.62 | 115.63 | 105.64 | 105.42 | 105.46 | 93.03 | 134.85 | 117.86 | 129.02 | 144.35 |

2017 fungicide costs are static. Sclerotinia was not a problem.

There was an increase in the insecticide costs due to the resistance to cypermethrin.

| Vining Peas | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Herbicides | 49.73 | 56.73 | 63.65 | 52.03 | 53.18 | 59.98 | 78.41 | 75.02 | 72.35 | 57.38 |
| Fungicides | 5.74 | 3.87 | 5.10 | 5.13 | 10.37 | 2.38 | 7.93 | 14.54 | 14.44 | 13.66 |
| Insecticides | 6.66 | 7.15 | 13.62 | 9.22 | 5.09 | 7.99 | 7.69 | 11.79 | 9.20 | 13.11 |
| Growth Regulators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Trace Elements | 0.00 | 0.00 | 0.00 | 0.00 | 0.74 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 |
| Molluscicides | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjuvants | 0.11 | 0.00 | 0.26 | 0.31 | 0.21 | 0.29 | 0.17 | 0.08 | 0.65 | 0.19 |
| | 62.82 | 67.75 | 82.63 | 66.69 | 69.59 | 70.63 | 94.36 | 101.43 | 96.64 | 84.34 |

| Spring Beans | 2013/14 | 2014/15 | 2015/16 | 2016/17 |
|---------------------|----------------|----------------|----------------|----------------|
| Herbicides | 87.63 | 79.53 | 57.69 | 77.78 |
| Fungicides | 61.48 | 25.72 | 27.76 | 26.58 |
| Insecticides | 17.81 | 11.49 | 12.52 | 13.43 |
| Growth Regulators | 0.00 | 0.00 | 0.00 | 0.00 |
| Trace Elements | 0.20 | 0.00 | 0.00 | 0.00 |
| Molluscicides | 0.00 | 0.64 | 0.35 | 0.00 |
| Adjuvants | 0.32 | 0.24 | 1.17 | 0.81 |
| | 167.44 | 117.62 | 99.49 | 118.60 |

Please feel free to contact us alex Creswell@jksenior.com for a full 2017 update or if you want to discuss your pesticide inputs.

