

**Trial Title:** Fungicide timing response monitoring in winter wheat

**Centre** Morley

**Trial Code** WW13-010

**Variety** Viscount

**Objective:** To record and monitor the yield responses to each of the component spray timings within a fungicide spray programme on wheat.

**NAC theme:** Long term monitoring

**Summary:** This NAC experiment forms part of a long term trial series recording the yield response to fungicide input and spray programme components in winter wheat. In 2013 disease levels in this experiment were low with a yield response of 0.1 t/ha (T0), 0.21 t/ha (T1 and T2) and 0 t/ha (T3) apparent; these responses were notably smaller than the long term mean.

**Table 1. Treatments table**

Treatments (kg/ha)					
	GS30	GS32	GS39	GS65	Comment
1.	Unt	-	-	-	Untreated
2.	-	Ignite + Bravo (0.75 + 1.0 l/ha)	-	-	T1 alone
3.	-	-	Adexar 1.25 l/ha	-	T2 alone
4.	-	-	-	Prosaro (0.66 l/ha)	T3 alone
5.	-	Ignite + Bravo (0.75 + 1.0 l/ha)	Adexar 1.25 l/ha	-	T1 + T2
6.	-	Ignite + Bravo (0.75 + 1.0 l/ha)	-	Prosaro (0.66 l/ha)	T1 + T3
7.	-	-	Adexar 1.25 l/ha	Prosaro (0.66 l/ha)	T2 + T3
8.	-	Ignite + Bravo (0.75 + 1.0 l/ha)	Adexar 1.25 l/ha	Prosaro (0.66 l/ha)	T1, T2 & T3
9.	Cherokee (1.0)	-	Adexar 1.25 l/ha	Prosaro (0.66 l/ha)	T0, T2 & T3
10.	Cherokee (1.0)	Ignite + Bravo (0.75 + 1.0 l/ha)	Adexar 1.25 l/ha	Prosaro (0.66 l/ha)	T0, T1, T2 & T3

- This experiment forms part of a longer term trial series running over several sites and seasons recording the yield response to fungicide input and spray programme components in winter wheat (Table 1). This research is funded through the NAC initiative.
- In general disease levels in the study were low with septoria levels around only 1.4% (leaf 3) and green leaf areas levels of 93% (leaf 2) and 82% (leaf 3) recorded on untreated plots in July 2013.
- Yield differences between treatments in this study were small but would suggest yield responses of 0.1 t/ha (T0), 0.21 t/ha (T1 and T2) and 0 t/ha (T3) were apparent in 2013 (Figure 1). These responses are smaller than the long term mean of 0.1 t/ha (T0), 1.88 t/ha (T1 and T2) and 0.39 t/ha (T3) (Figure 2).
- This study remains ongoing and this dataset will be used within any wider cross site and season analysis.

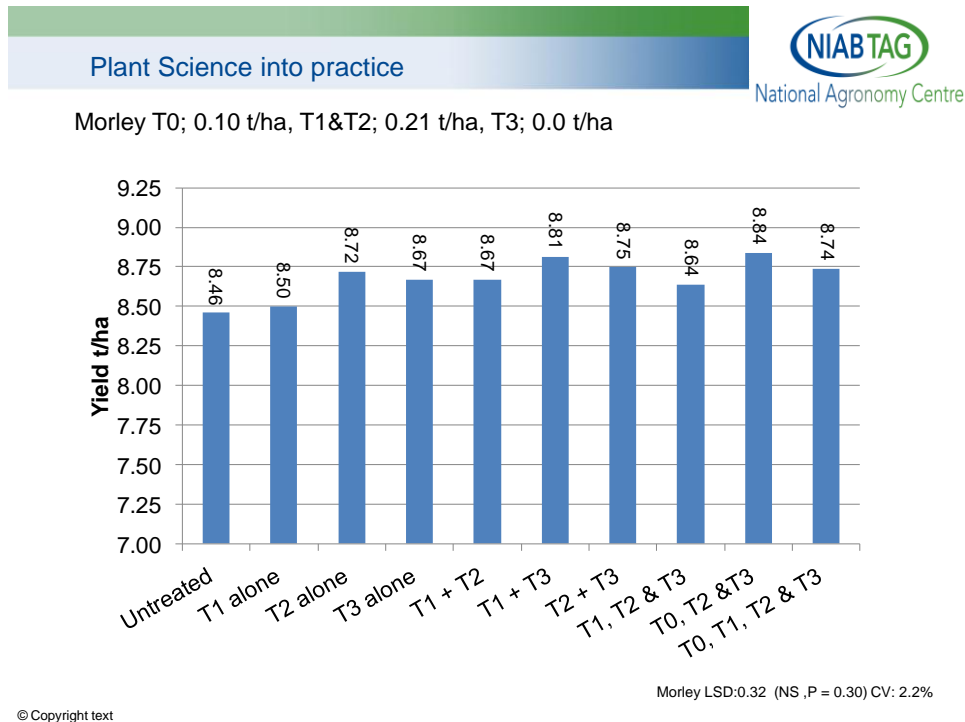
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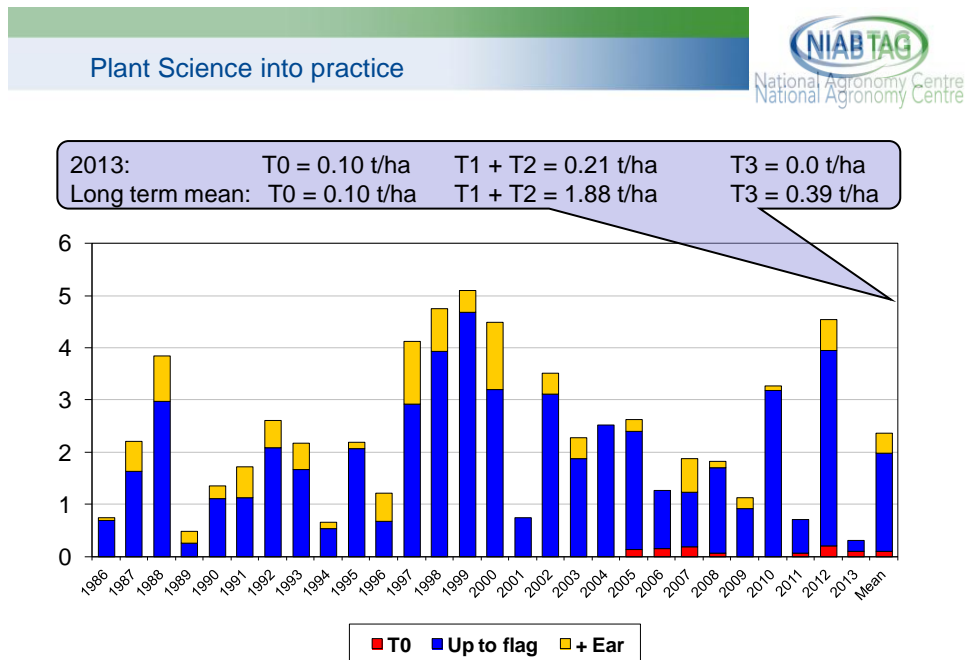
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**Figure 1.** The effect of fungicide programme and spray components on yield (t/ha)



**Figure 2.** Long term fungicide response data from Morley (t/ha).



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## Field details & overall applications to crop

**Crop:** Winter Wheat  
**Location:** Morley, Norfolk  
**Soil type:** Sandy Loam  
**Soil analysis:** P-20 ppm, K-102 ppm, Mg-45 ppm, pH-8.1  
**Previous crop:** Winter Oil Seed Rape  
**Seed rate:** 250+300 Seed M2  
**Drilled plot size:** 2.1 x 12m  
**Replicates:** 3

Input type	Product	Product rate	Date
Herbicide:	Firebird	0.3 l/ha	01/03/13
	Finish SX	62.3 g/ha	06/05/13
	Atlantis WG	0.4 kg/ha	05/05/13
Fertiliser:	Liquid N 27 + S	50 kg/ha	12/04/13
	Liquid N 27 + S	89 kg/ha	20/04/13
	Liquid N 27 + S	31 kg/ha	12/05/13
	Epsotop	5 kg/ha	02/06/13
PGR:	3C Chlormequat 720	2.0 l/ha	30/04/13
Insecticide:	Afrisect 10	0.2 l/ha	01/03/13
Fungicide:	Variano Xpro	1.25 l/ha	30/04/13
	Librax	1.0 l/ha	02/06/13
	Ennobe	0.5 l/ha	02/06/13
	Monkey	1.0 l/ha	18/06/13

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