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RESEARCH

Yields of the Field Experiments 2014

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Results of the
Classical and other
Long-term Experiments
2014

Pesticides Used

Rothamsted Research

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| | | | |
|------|-----|-------|---|
| T503 | Tym | 2.0 t | Fertiliser applications and Rotovating. |
|------|-----|-------|---|

Application code: This is used to identify the kind of application
a = application (cultivations, harvest, etc.), p = pesticide, f = fertilizer and s = seed.

Tables of means

The following abbreviations are used in variate headings:

Wheat, barley, oats, beans, lupins etc.

| | |
|--------|---------------------------|
| Grain: | Grain (at 85% dry matter) |
| Straw: | Straw (at 85% dry matter) |

All crops

Mean DM%: Mean dry matter % as harvested

Standard errors

- NOTES:**
- (1) This report gives standard errors of differences, not of means.
 - (2) Annotations (e.g. * min rep, max-min, max rep) to S.E.Ds are only explained the first time they occur in any experiment.

PESTICIDES USED

The following list of pesticides is based on The UK Pesticides Guide, CAB International and The British Crop Protection Council. CABI Publishing

KEY TO ABBREVIATIONS

| | | |
|---------------------|--------------|-------------------|
| ad Adjuvant | d Desiccant | f Fungicide |
| gr Growth regulator | h Herbicide | i Insecticide |
| m Molluscicide | n Nematicide | tr Trace elements |

| Trade Name | Function | Active ingredient |
|-------------|----------|--|
| Absolute | h | diflufenican + flupyr-sulfuron-methyl (41.7:8.3% w/w) |
| Ally Max SX | h | metsulfuron-methyl + tribenuron-methyl (14.3:14.3 % w/w) |
| Amistar | f | azoxystrobin (250 g/l) |
| Artemis | f | fenpropidin + prochloraz + tebuconazole (150:200:150 g/l) |
| Atlantis | h | iodosulfuron-methyl-sodium + mesosulfuron-methyl (0.6:3.0 % w/w) |
| BASF 3C 720 | gr | chlormequat (720 g/l) |
| BioPower | ad | 6.7% w/w 3,6-dioxaeicosylsulphate sodium salt and 20.2% w/w 3,6-dioxaoctadecylsulphate sodium salt |
| Bravo 500 | f | chlorothalonil (500 g/l) |
| Callisto | h | mesotrione (100 g/l) |
| Cello | f | prothioconazole + spiroxamine + tebuconazole (100:250:100 g/l) |
| Cortez | f | epoxiconazole (125 g/l) |
| Covershield | f | pyraclostrobin + kresoxim-methyl + epixiconazole (133:67:50 g/l) |
| Crystal | h | flufenacet + pendimethalin (60:300 g/l) |
| Cyflamid | f | cyflufenamid (50 g/l) |
| Defy | h | pro-sulfocarb (800 g/l) |
| Fezan | f | tebuconazole (250 g/l) |
| Firebrand | ad | ammonium sulphate (500 g/l) |

| | | |
|-------------------------|----|--|
| Gallup 360 | h | glyphosate (360 g/l) |
| Hallmark with zeon tech | i | lambda-cyhalothrin (100 g/l) |
| Hatchet xtra | h | fluroxypyr (200 g/l) |
| Hunter | h | florasulam + fluroxypyr (2.5:100 g/l) |
| Hurricane | h | diflufenican (500 g/l) |
| Intracrop Dictate | ad | 91.0% w/w oil (rapeseed fatty acid esters) |
| Karan | i | methiocarb (3% w/w) |
| Keystone | f | epoxiconazole + isopyrazam (99:125 g/l) |
| Kingdom | f | boscalid + epoxiconazole (140:50 g/l) |
| Laser | h | cycloxydim (200 g/l) |
| Lexus Millenium | h | flupyrsulfuron-methyl + thifensulfuron-methyl (10/40% w/w) |
| Liberator | h | diflufenican + flufenacet (100:400 g/l) |
| MesuroI | i | methiocarb (500g/l) |
| Mobius | f | prothioconazole + trifloxystrobin (175:150 g/l) |
| Moddus | gr | trinexapac-ethyl (250 g/l) |
| New 5C Cycocel | gr | chlormequat |
| Nirvana | h | imazamox + pendimethalin (16.7:250 g/l) |
| Raxil star | f | fluopyram + prothioconazole + tebuconazole (20.8:103.1:63.2 g/l) |
| Redigo Deter | f | prothioconazole + clothiandin (50:250 g/l) |
| Refine Max | h | metsulfuron-methyl + thifensulfuron-methyl (6.7:33.3 w/w) |
| Samson Extra | h | nicosulfuron (60 g/l) |
| Samurai | h | glyphosate (360 g/l) |
| San 703 | f | chlorothalonil + cyproconazole (375:40 g/l) |
| Sekator | h | amidosulfuron + iodosulfuron-methyl-sodium (5:1.25 % w/w) |
| Simba SX | h | metsulfuron-methyl (20 % w/w) |
| Sprinter-K | f | Foliar K fertilizer (2-4 ml/l) |
| Stomp 400 SC | h | pendimethalin (400 g/l) |
| TDS Major | m | metaldehyde (4% w/w) |
| Vortex | f | epoxiconazole + fluxapyroxad + pyraclostrobin (41.6:41.6:61 g/l) |
| Weedazole-TL | h | amitrole (225 g/l) |
| Zarado | ad | 70% w/w oil (rapeseed oil fatty acid esters) as emulsifiable concentrate |