|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Baseline situation**  (*i.e.* **A**, low resistance, low-med density; **B**, high resistance, low-med density; or **C, high resistance, high density)** | | | | |
| **Location, soil type**  (*i.e.* region could be ***North***/central/East etc. Soil type ***heavy/medium***/light) | | | | |
| **Aims of management strategy**  (e.g. reduce black-grass density, or prevent further resistance developing, etc.  Encourage them to make it explicit; if they don’t, no worries). | | | | |
| **MANAGEMENT STRATEGY** | | | | |
|  | **example** | **Year 1** | **Year 2** | **Year 3** |
| **Crop** | ww | 18 month fallow | Maize | Spring Barley |
| seed rate (kg/ha) | 195 |  |  |  |
| sowing window | end Oct – mid Nov |  | Late March | Mid-late Barley |
| **Stale seedbed?** | yes | Yes |  | Yes |
| reps | 2 |  |  |  |
| management | * Disc (7.5cm depth) * Glyphosate mid Sep 540g ai (0.5 l/ha) * Roll 3 days later * 3 weeks later (*e.g.* 5th Oct), 2nd glyphosate 540g ai (0.5 l/ha) | 3-4 glyphosate sprays  540g ai/ha  2-3 in months 1-12  1-2 in months 13-18 |  | 2 glyphosate sprays (Oct + March)  540g ai/ha |
| **Tillage** | Non-inversion | Non-inversion | Non-inversion | Non-inversion |
| type 1 | disc | Disc |  |  |
| date 1 | late Sep | Early sept |  |  |
| depth 1 (cm) | 7.5 | 5cm |  |  |
| type 2 | subsoil | Disc |  |  |
| date 2 | late Sep | Late sept |  |  |
| depth 2 (cm) | 25 | 5cm |  |  |
| type 3 |  |  |  |  |
| date 3 |  | Repeat in months 13-18 |  |  |
| depth 3 (cm) |  |  |  |  |
| **Fertiliser** | Total [N] = 200kg/ha |  |  |  |
| type 1 | Ammonium nitrate |  |  |  |
| date 1 | end Feb |  | As RB209 guide | As RB209 guide |
| amount 1 (kg[N]/ha) | 40 |  |  |  |
| type 2 | Ammonium nitrate |  |  |  |
| date 2 | end Feb |  |  |  |
| amount 2 (kg[N]/ha) | 80 |  |  |  |
| type 3 | Ammonium nitrate |  |  |  |
| date 3 | end Feb |  |  |  |
| amount 3 (kg[N]/ha) | 80 |  |  |  |
| **Herbicide regime** |  |  |  |  |
| Product/active 1 | Liberator |  |  | Crystal |
| Date 1 | early Oct |  |  | Pre-em (late March) |
| Amount 1 (l/ha) | 0.6 |  |  | 2 l/ha |
| Product/active 2 | Atlantis + Liberator |  |  | Defy |
| Date 2 | mid Nov |  |  | Pre-em (late March) |
| Amount 2 (l/ha) | Atl 0.4, Lib 0.3 |  |  | 2 l/ha |
| Product/active 3 |  |  |  |  |
| Date 3 |  |  |  |  |
| Amount 3 (l/ha) |  |  |  |  |
| Product/active 4 |  |  |  |  |
| Date 4 |  |  |  |  |
| Amount 4 (l/ha) |  |  |  |  |
| Product/active 5 |  |  |  |  |
| Date 5 |  |  |  |  |
| Amount 5 (l/ha) |  |  |  |  |
| Product/active 6 |  |  |  |  |
| Date 6 |  |  |  |  |
| Amount 6 (l/ha) |  |  |  |  |
| **Notes**  e.g.   * what happens to **straw** and why? * **Cover crop**? If so, details and why. * Anything else to note? |  |  | Maize harvested for Anaerobic digestion plant (AD) | Crop direct drillied |

**NB:**

Tillage - important to differentiate between inversion (to bury new seeds) and non-inversion each year

Herbicides - I only require herbicides targeting Black-grass, and glyphosate applications for stale seedbed (*i.e.* don’t include glyphosate applications used for crop desiccant, or herbicides that target broad leaved weeds, or adjuvants etc. etc.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Baseline situation**  (*i.e.* **A**, low resistance, low-med density; **B**, high resistance, low-med density; or **C**, high resistance, high density) | | | | |
| **Location, soil type**  (*i.e.* region could be North/central/East etc. Soil type heavy/medium/light) | | | | |
| **Aims of management strategy**  (e.g. reduce black-grass density, or prevent further resistance developing, etc.  Encourage them to make it explicit; if they don’t, no worries). | | | | |
| **MANAGEMENT STRATEGY** | | | | |
|  | **example** | **Year 4** | **Year 5** | **Year 6** |
| **Crop** | ww | Winter wheat | Winter Oilseed Rape | Same as year 4 |
| seed rate (kg/ha) | 195 |  |  |  |
| sowing window | end Oct – mid Nov | Mid-late October | Late August |  |
| **Stale seedbed?** | yes | YES | NO |  |
| reps | 2 |  |  |  |
| management | * Disc (7.5cm depth) * Glyphosate mid Sep 540g ai (0.5 l/ha) * Roll 3 days later * 3 weeks later (*e.g.* 5th Oct), 2nd glyphosate 540g ai (0.5 l/ha) | 2 glyphosate sprays  540g ai/ha | 1 glyphosate spray  540g ai/ha |  |
| **Tillage** | Non-inversion | No tillage / direct drilled | No tillage / direct drilled | No tillage / direct drilled |
| type 1 | disc |  |  |  |
| date 1 | late Sep |  |  |  |
| depth 1 (cm) | 7.5 |  |  |  |
| type 2 | subsoil |  |  |  |
| date 2 | late Sep |  |  |  |
| depth 2 (cm) | 25 |  |  |  |
| type 3 |  |  |  |  |
| date 3 |  |  |  |  |
| depth 3 (cm) |  |  |  |  |
| **Fertiliser** | Total [N] = 200kg/ha | As standard | As Standard | As Standard |
| type 1 | Ammonium nitrate |  |  |  |
| date 1 | end Feb |  |  |  |
| amount 1 (kg[N]/ha) | 40 |  |  |  |
| type 2 | Ammonium nitrate |  |  |  |
| date 2 | end Feb |  |  |  |
| amount 2 (kg[N]/ha) | 80 |  |  |  |
| type 3 | Ammonium nitrate |  |  |  |
| date 3 | end Feb |  |  |  |
| amount 3 (kg[N]/ha) | 80 |  |  |  |
| **Herbicide regime** |  |  |  |  |
| Product/active 1 | Liberator | Triallate (avadex) | Centurion Max | Same as year 4 |
| Date 1 | early Oct | Pre-em | Late Sept / early Oct |  |
| Amount 1 (l/ha) | 0.6 | 15kg/ha | 1.0 l/ha |  |
| Product/active 2 | Atlantis + Liberator | Crystal | Kerb |  |
| Date 2 | mid Nov | Pre-em | Mid November |  |
| Amount 2 (l/ha) | Atl 0.4, Lib 0.3 | 4.0 l/ha | 2.1 l/ha |  |
| Product/active 3 |  | Liberator |  |  |
| Date 3 |  | 14 days after sowing |  |  |
| Amount 3 (l/ha) |  | 0.3 l/ha |  |  |
| Product/active 4 |  |  |  |  |
| Date 4 |  |  |  |  |
| Amount 4 (l/ha) |  |  |  |  |
| Product/active 5 |  |  |  |  |
| Date 5 |  |  |  |  |
| Amount 5 (l/ha) |  |  |  |  |
| Product/active 6 |  |  |  |  |
| Date 6 |  |  |  |  |
| Amount 6 (l/ha) |  |  |  |  |
| **Notes**  e.g.   * what happens to **straw** and why? * **Cover crop**? If so, details and why. * Anything else to note? |  |  |  |  |

**NB:**

Tillage - important to differentiate between inversion (to bury new seeds) and non-inversion each year

Herbicides - I only require herbicides targeting Black-grass, and glyphosate applications for stale seedbed (*i.e.* don’t include glyphosate applications used for crop desiccant, or herbicides that target broad leaved weeds, or adjuvants etc. etc.)

**Notes:**

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |