

**Evaluation of UBI-4335,
Ridomil Gold, and Quadris for
Black Shank Control in Dark Tobacco
2006**

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Methods

- Strip-Till system used in wheat residue
 - Strips cultivated after each fungicide application
- ‘Narrowleaf Madole’ dark tobacco set June 22
 - No black shank resistance
 - 44” row spacing x 27.5” plant spacing = 5200 plants/A
- Plots 4-rows, 40 ft. long
- RCBD with 4 replications

Treatments

| Trt | Treatment | Rate/A | Timing | Method |
|-----|------------------------|----------------|----------------------|----------|
| 1 | UBI-4335 | 1 qt | PPI | BC |
| 2 | UBI-4335 | 2 qt | PPI | BC |
| 3 | UBI-4335 | 1 qt | PPI | BC |
| | UBI-4335 | 1 qt | Layby | Directed |
| 4 | UBI-4335 | 1 qt | PPI | BC |
| | UBI-4335 | 1 qt | 1 st cult | Directed |
| | UBI-4335 | 1 qt | Layby | Directed |
| 5 | Ridomil Gold | 1 qt | PPI | BC |
| | UBI-4335 | 1 qt | Layby | Directed |
| 6 | Ridomil Gold | 1 qt | PPI | BC |
| 7 | Ridomil Gold | 1 pt | PPI | BC |
| | Ridomil Gold | 1 pt | 1 st cult | Directed |
| | Ridomil Gold | 1 pt | Layby | Directed |
| 8 | Ridomil Gold | 1 pt | PPI | BC |
| | Quadris | 18.6 oz | 1 st cult | Directed |
| | Ridomil Gold | 1 pt | Layby | Directed |
| 9 | Quadris | 18.6 oz | PPI | BC |
| | Ridomil Gold | 1 pt | 1 st cult | Directed |
| | Quadris | 18.6 oz | Layby | Directed |
| 10 | Ridomil Gold | 1 pt | Post-Layby | Basal |
| 11 | Ridomil Gold + Quadris | 1 pt + 18.6 oz | Post-Layby | Basal |
| 12 | Untreated Check | 0 | - | - |

Applications

- PPI applications made June 21 prior to setting on June 22
 - Broadcast (BC) applied at 15 gal/A
- 1st cultivation (July 10) and Layby (July 28) applications
 - Directed 15” band on each side of rows, 15 gal/A
- Basal applications made August 2
 - 2 oz spray solution applied around base of each living plant
 - Approx. 81 gal/A if applied to all plants
 - Black shank already very severe at the time of Layby and Basal applications
- Tobacco stand counts taken but trial not harvested due to black shank

First Stand Count – July 10 – 2.5 wks after PPI and setting

| Treatment | Live plants/plot | % Stand (36 plants max) |
|--|------------------|-------------------------|
| UBI-4335 1 qt PPI | 32.3 bc | 89.6 bc |
| UBI-4335 2 qt PPI | 34.0 abc | 94.4 abc |
| UBI-4335 1 qt PPI UBI-4335 1 qt Layby | 32.0 c | 88.9 c |
| UBI-4335 1 qt PPI UBI-4335 1 qt 1 st cult UBI-4335 1 qt Layby | 32.8 abc | 91.0 abc |
| Ridomil Gold 1 qt PPI UBI-4335 1 qt Layby | 34.5 a | 95.8 a |
| Ridomil Gold 1 qt PPI | 34.5 a | 95.8 a |
| Ridomil Gold 1 pt PPI Ridomil Gold 1 pt 1 st cult Ridomil Gold 1 pt Layby | 32.8 abc | 91.0 abc |
| Ridomil Gold 1 pt PPI Quadris 18.6 oz 1 st cult Ridomil Gold 1 pt Layby | 33.5 abc | 93.1 abc |
| Quadris 18.6 oz PPI Ridomil Gold 1 pt 1 st cult Quadris 18.6 oz Layby | 33.3 abc | 92.4 abc |
| Ridomil Gold 1 pt Post-Layby | 33.0 abc | 91.7 abc |
| Ridomil Gold + Quadris 1 pt + 18.6 oz Post-Layby | 34.3 ab | 95.1 ab |
| Untreated Check | 33.5 abc | 93.1 abc |
| LSD (0.05) | 2.02 | 5.6 |

Second Stand Count – August 2 - 6 wks after PPI and setting

| Treatment | Live Green plants/plot | % Stand (36 plants max) |
|--|------------------------|-------------------------|
| UBI-4335 1 qt PPI | 6.8 ef | 18.8 ef |
| UBI-4335 2 qt PPI | 8.0 def | 22.2 def |
| UBI-4335 1 qt PPI UBI-4335 1 qt Layby | 10.3 cdef | 28.5 cdef |
| UBI-4335 1 qt PPI UBI-4335 1 qt 1 st cult UBI-4335 1 qt Layby | 9.8 cdef | 27.1 cdef |
| Ridomil Gold 1 qt PPI UBI-4335 1 qt Layby | 16.0 bc | 44.4 bc |
| Ridomil Gold 1 qt PPI | 12.5 cde | 34.7 cde |
| Ridomil Gold 1 pt PPI Ridomil Gold 1 pt 1 st cult Ridomil Gold 1 pt Layby | 25.0 a | 69.4 a |
| Ridomil Gold 1 pt PPI Quadris 18.6 oz 1 st cult Ridomil Gold 1 pt Layby | 21.0 ab | 58.3 ab |
| Quadris 18.6 oz PPI Ridomil Gold 1 pt 1 st cult Quadris 18.6 oz Layby | 15.3 bcd | 42.4 bcd |
| Ridomil Gold 1 pt Post-Layby | 9.0 cdef | 25.0 cdef |
| Ridomil Gold + Quadris 1 pt + 18.6 oz Post-Layby | 11.8 cdef | 32.6 cdef |
| Untreated Check | 4.8 f | 13.2 f |
| LSD (0.05) | 7.4 | 20.5 |

Conclusion of Trial

- Nearly all of trial gone to black shank on September 14.
 - No live plants left in trts 1, 2, 3, 4, or 12
- Trial not harvested