

Spartan-Command Combinations for Dark Tobacco

2010 – MSU West Farm, Murray, KY

- PD 7318LC set June 16 (4900 plants/A)
- Pretransplant incorporated (PTI) and pretransplant surface (PRE) applications made June 8 (15 gal/A broadcast).
 - PTI applications incorporated <2 in. with Roterra
- Trial was randomized complete block design with 4 replications of each treatment.
 - 4-row plots, 40 ft. long.
- Data collected:
 - Weed control data by species every 2 wks through late July
 - Dark-fired yield and quality grade index

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2010 – MSU West Farm, Murray, KY - Treatments

| Trt | Treatment | Rates (oz/A) | Application Timing |
|-----|--------------------------|-----------------------|--------------------|
| 1 | Spartan 4F | 8 oz/A | PTI |
| 2 | Command 3ME | 32 oz/A | PTI |
| 3 | Spartan 4F | 10.6 oz/A | PTI |
| 4 | Command 3ME | 42.7 oz/A | PTI |
| 5 | Spartan 4F + Command 3ME | 5.4 oz/A + 21.3 oz/A | PTI |
| 6 | Spartan 4F + Command 3ME | 8 oz/A + 32 oz/A | PTI |
| 7 | Spartan 4F + Command 3ME | 10.6 oz/A + 42.7 oz/A | PTI |
| 8 | Spartan 4F | 8 oz/A | PRE |
| 9 | Command 3ME | 32 oz/A | PRE |
| 10 | Spartan 4F | 10.6 oz/A | PRE |
| 11 | Command 3ME | 42.7 oz/A | PRE |
| 12 | Spartan 4F + Command 3ME | 5.4 oz/A + 21.3 oz/A | PRE |
| 13 | Spartan 4F + Command 3ME | 8 oz/A + 32 oz/A | PRE |
| 14 | Spartan 4F + Command 3ME | 10.6 oz/A + 42.7 oz/A | PRE |
| 15 | Untreated Check | 0 | - |

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2010 – MSU West Farm, Murray, KY – Late Weed Control Data (July 29)

| Treatment | Rates (oz/A) | Timing | Large Crabgrass | Yellow Nutsedge | Honeyvine Milkweed | Common Ragweed | Pigweed | Carpet weed |
|-------------------|--------------|--------|--------------------------------|-----------------|--------------------|----------------|---------|-------------|
| | | | ----- % Control (0-100%) ----- | | | | | |
| Spartan | 8 | PTI | 61 b | 92 a | 51 ab | 39 d | 68 ab | 85 a |
| Command | 32 | PTI | 95 a | 35 bcd | 34 abc | 81 abc | 71 ab | 23 d |
| Spartan | 10.6 | PTI | 71 ab | 91 a | 73 a | 50 bcd | 90 a | 91 a |
| Command | 42.7 | PTI | 93 a | 39 bcd | No data | 94 a | 83 a | 57 bc |
| Spartan + Command | 5.4 + 21.3 | PTI | 86 ab | 59 abc | 72 a | 76 abcd | 93 a | 76 ab |
| Spartan + Command | 8 + 32 | PTI | 88 a | 86 a | No data | 71 abcd | No data | 96 a |
| Spartan + Command | 10.6 + 42.7 | PTI | 93 a | 90 a | No data | 85 ab | 72 ab | 96 a |
| Spartan | 8 | PRE | 70 ab | 80 ab | 72 a | 40 d | No data | 98 a |
| Command | 32 | PRE | 93 a | 35 bcd | 40 ab | 98 a | No data | 41 cd |
| Spartan | 10.6 | PRE | 67 ab | 89 a | 44 ab | 47 cd | No data | 97 a |
| Command | 42.7 | PRE | 95 a | 28 cd | 21 bc | 95 a | 73 ab | 46 cd |
| Spartan + Command | 5.4 + 21.3 | PRE | 89 a | 74 ab | No data | 89 a | 74 ab | 96 a |
| Spartan + Command | 8 + 32 | PRE | 82 ab | 79 ab | No data | 96 a | 74 ab | 99 a |
| Spartan + Command | 10.6 + 42.7 | PRE | 92 a | 79 ab | No data | 93 a | 75 ab | 99 a |
| Untreated Check | 0 | - | 0 c | 0 d | 0 c | 0 e | 0 b | 0 e |

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2010 – MSU West Farm, Murray, KY – Dark-Fired Yield and Quality Grade Index

| Treatment | Rates (oz/A) | Timing | Lug | Second | Leaf | Total | Quality Grade Index |
|-------------------|--------------|--------|---------------------------|---------|----------|---------|---------------------|
| | | | ----- Yield (lbs/A) ----- | | | | 0-100 |
| Spartan | 8 | PTI | 121 b | 370 bc | 1221 bcd | 1712 bc | 40.7 a |
| Command | 32 | PTI | 110 b | 306 c | 936 d | 1352 c | 46.1 a |
| Spartan | 10.6 | PTI | 232 ab | 365 bc | 1452 bcd | 2050 bc | 44.1 a |
| Command | 42.7 | PTI | 263 ab | 405 abc | 1433 bcd | 2102 bc | 25.9 a |
| Spartan + Command | 5.4 + 21.3 | PTI | 229 ab | 384 bc | 1636 bc | 2249 bc | 59.2 a |
| Spartan + Command | 8 + 32 | PTI | 266 ab | 607 a | 2363 a | 3236 a | 40.3 a |
| Spartan + Command | 10.6 + 42.7 | PTI | 264 ab | 571 ab | 1805 b | 2640 ab | 51.5 a |
| Spartan | 8 | PRE | 156 ab | 364 bc | 1385 bcd | 1905 bc | 26.6 a |
| Command | 32 | PRE | 171 ab | 371 bc | 1366 bcd | 1908 bc | 48.8 a |
| Spartan | 10.6 | PRE | 258 ab | 440 abc | 1723 b | 2420 ab | 43.1 a |
| Command | 42.7 | PRE | 171 ab | 383 bc | 1252 bcd | 1805 bc | 51.9 a |
| Spartan + Command | 5.4 + 21.3 | PRE | 263 ab | 460 abc | 1711 b | 2434 ab | 45.6 a |
| Spartan + Command | 8 + 32 | PRE | 303 a | 559 ab | 1762 b | 2624 ab | 46.1 a |
| Spartan + Command | 10.6 + 42.7 | PRE | 254 ab | 490 abc | 1837 b | 2582 ab | 46.6 a |
| Untreated Check | 0 | - | 133 b | 343 bc | 969 cd | 1445 c | 32.0 a |

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2010 – MSU West Farm, Murray, KY – Trial Summary

- Weed control was best with Spartan-Command combinations compared to Spartan or Command alone.
- Weed control from PRE applications was generally better than PTI applications.
- Yield was strongly influenced by weed control