

Canola Post Emergent Herbicide Tolerance

| Rating Date | | | | Jun-29-2016 | | Nov-26-2016 | |
|--------------------------|--------------------|------|-------|---------------|-----|---------------|-----|
| Rating Type | | | | Crop Effect | | YIELD | |
| Rating Unit | | | | % | | T-MET | |
| ARM Action Codes | | | | | | TY2 | |
| No. | Treatment | Rate | Unit | 1 | | 3 | |
| 1 | Clethodim | 350 | ml/ha | 10 | de | 1.22 | a |
| 2 | Clethodim | 500 | ml/ha | 20 | cd | 1.09 | abc |
| 3 | Clethodim | 750 | ml/ha | 30 | bc | 1.12 | abc |
| 4 | Clethodim | 1000 | ml/ha | 36.7 | abc | 1.22 | a |
| 5 | Factor | 80 | g/ha | 36.7 | abc | 1.06 | a-d |
| 6 | Factor | 180 | g/ha | 46.7 | ab | 0.94 | cd |
| 7 | Clethodim | 500 | ml/ha | 46.7 | ab | 1.12 | abc |
| | Factor | 80 | g/ha | | | | |
| 8 | Clethodim | 500 | ml/ha | 50 | a | 1.15 | ab |
| | Factor | 180 | g/ha | | | | |
| 9 | Clethodim | 500 | ml/ha | 40 | ab | 1.23 | a |
| | Propyzamide | 1000 | ml/ha | | | | |
| 10 | Clethodim | 500 | ml/ha | 50 | a | 1.24 | a |
| | Factor | 80 | g/ha | | | | |
| | Atrazine | 1.1 | kg/ha | | | | |
| 11 | Untreated | | | 0 | e | 0.98 | bcd |
| 12 | Clethodim @ 8 Leaf | 350 | ml/ha | 6.7 | de | 1.06 | a-d |
| 13 | Clethodim @ 8 Leaf | 500 | ml/ha | 0 | e | 0.89 | d |
| LSD P=.05 | | | | 19.57 | | 0.186 | |
| CV | | | | 40.43 | | 10.02 | |
| Treatment Prob(F) | | | | 0.0001 | | 0.0086 | |

Variety - Stingray

Rating Type : YIELD = yield
Rating Unit :% = percent

kg/plot = kilograms per plot
T-MET = ton (metric=1000 kg)

ARM Action Codes
TY2 = 0.4166667*[2]

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns: Yates=2,3

Summary: The trial presented some great visuals with grass selective timings and rates on crop effect. As expected higher rates of clethodim do increase crop effect which was judged on the 29th of June. The addition of Factor was very harsh on the crop. Applications of Clethodim at 8 leaf was very harsh on the plot showing this timing is to late coping to much crop effect and a large yield penalty. Yields did respond to the level of crop effect although not to the extent expected. With the very mild finish to the season Grass Patch received, this allowed the highly effected plots to compensate to some degree and reduce the level of yield effect from the provided treatments. The site was relatively grass free while the lower rates may have provided less weed control, but there was very little weed competition.