Agronomic and Cultural Information

Planting: Drill-planted Cocodrie @ 90 lb/A into League soil (pH 5.5, sand 3.2%, silt 32.4%, clay 64.4%, and organic matter 3.8 - 4.8%) on May 21
Experimental design: randomized complete block with 5 treatments and 4 replications
Plot size = 7 rows, 7 in. row spacing, 18 ft long with metal barriers
Emergence on May 31

Irrigation: Flushed blocks (temporary flood for 48 hours, then drain) on May 23
Note: Plots were flushed as needed from emergence to permanent flood (PF)
PF on Jun 21 [21 days after emergence (DAE)]

Fertilization: All fertilizer (urea) was distributed by hand.
113.3 lb N/A (2/3 of 170) on May 23 at planting
56.7 lb N/A (1/3 of 170) on Jul 7 at panicle differentiation (PD)
40 lb N/A on Jul 23 at late boot/heading
(Total season urea = 210 lb N/A)

Herbicide: Stam 80EDF @ 2.0 lb, Basagran @ 0.75 lb, Facet 75DF @ 0.25 lb and Ordram 8E @ 2.0 lb (AI)/A and Agri-Dex @ 1.0 pt/A applied with a 2-person hand-held spray boom (13- 80015 nozzles, 50 mesh screens, 21 gpa final spray volume) on Jun 19 for early season weed control; Clincher @ 15 oz/A with Penetrator Plus @ 1.0 qt/A applied as above on Jun 28 for escaped grass weeds.

Treatments: Treatments 2 – 5 were applied before flood (BF) with a hand-held CO2-pressurized spray boom on Jun 21 (3-800067 nozzles, 50 mesh screens, 20 psi, 24 gpa)

Sampling: Stand counts (2- 3 ft counts in rows 2 and 6 of each plot) on Jun 5
Rice water weevil (RWW) feeding scar counts from 20 plants/plot on Jun 29
RWW cores (5 cores per plot, each core 4 in. diameter, 4 in. deep containing at least one rice plant) collected on Jul 11 (20 days after PF) and Jul 20 (29 days after PF)
Cores were later washed through 40-mesh screen buckets and immature RWW counted.
Note: Prior to analysis RWW core data transformed using $\sqrt{x + 0.5}$

Harvest: Harvested plots on Sep 7 (97 DAE)
Size harvested plot = 7 rows, 7 in. row spacing, 18 ft. long
Yields converted to lb/A and adjusted to 12% moisture
Note: All data analyzed using ANOVA and LSD
**Discussion**

All treatments were applied just prior to PF. On both sample dates (Jul 11 and 21), Silencer 1EC performed as well as Karate Z at both the high and low rates (Table 1). Fewer adult RWW feeding scars were found at the high compared to the low rate of Karate Z and Silencer 1EC, but the difference was not significant. Although no significant differences in yield among treatments were detected, Silencer 1EC at the high rate outyielded the untreated 458 lb/A. Data indicate Silencer 1EC performs similarly to Karate Z when applied just prior to PF.


<table>
<thead>
<tr>
<th>Trt. #</th>
<th>Description</th>
<th>Rate lb (AI)/A</th>
<th>Stand plants/ft ( ^a )</th>
<th>No. RWW/5 cores</th>
<th>RWW feeding scars ( ^b )</th>
<th>Yield lb/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Untreated</td>
<td>---</td>
<td>17</td>
<td>19 a</td>
<td>48 a</td>
<td>21 a</td>
</tr>
<tr>
<td>2</td>
<td>Silencer 1EC</td>
<td>0.025</td>
<td>16</td>
<td>7 b</td>
<td>3 b</td>
<td>6 b</td>
</tr>
<tr>
<td>3</td>
<td>Karate Z</td>
<td>0.025</td>
<td>16</td>
<td>9 ab</td>
<td>4 b</td>
<td>6 b</td>
</tr>
<tr>
<td>4</td>
<td>Silencer 1EC</td>
<td>0.04</td>
<td>16</td>
<td>6 b</td>
<td>1 b</td>
<td>2 b</td>
</tr>
<tr>
<td>5</td>
<td>Karate Z</td>
<td>0.04</td>
<td>14</td>
<td>4 b</td>
<td>3 b</td>
<td>2 b</td>
</tr>
</tbody>
</table>

\( ^a \) Based on no. of rice plants in 2, 3 ft of row samples/plot

\( ^b \) Based of no. of adult RWW feeding scars on 20 plants/plot 8 days after PF

Means in a column followed by the same or no letter are not significantly different (NS, \( P > 0.05 \), ANOVA and LSD).