

Supplementary Table 1 Interaction effect of irrigation levels and weed management treatments on maize grain yield (pooled data of two year)

| Treatments (I × W)                                            | W <sub>1</sub> | W <sub>2</sub> | W <sub>3</sub> | W <sub>4</sub> | W <sub>5</sub> | W <sub>6</sub> | W <sub>7</sub> | W <sub>8</sub> | Irrigation level mean |
|---------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------|
| I <sub>1</sub>                                                | 3.23           | 4.51           | 5.11           | 5.52           | 5.64           | 5.75           | 5.74           | 6.67           | 5.27                  |
| I <sub>2</sub>                                                | 4.04           | 5.38           | 6.08           | 6.11           | 6.29           | 6.33           | 6.91           | 7.17           | 6.04                  |
| Weed management mean                                          | 3.63           | 4.94           | 5.60           | 5.81           | 5.97           | 6.04           | 6.32           | 6.91           |                       |
|                                                               |                |                |                |                |                |                |                | SEm±           | LSD (P=0.05)          |
| Two weed management at the same irrigation level              |                |                |                |                |                |                |                | 0.13           | 0.40                  |
| Two irrigation level at the same or different weed management |                |                |                |                |                |                |                | 0.17           | 0.41                  |
| Irrigation level (I)                                          |                |                |                |                |                |                |                | 0.05           | 0.17                  |
| Weed management (W)                                           |                |                |                |                |                |                |                | 0.12           | 0.35                  |

I<sub>1</sub>, Irrigation applied at an IW/CPE ratio of 0.8; I<sub>2</sub>, Irrigation applied at an IW/CPE ratio of 1.2. W<sub>1</sub>, Atrazine 1000 g/ha; W<sub>2</sub>, Tembotrione 120 g/ha; W<sub>3</sub>, Topramezone 25.2 g/ha; W<sub>4</sub>, Atrazine 1000 g/ha followed by hand-weeding at 35 DAS; W<sub>5</sub>, Atrazine 1000 g/ha followed by tembotrione 120 g/ha; W<sub>6</sub>, Atrazine 1000 g/ha followed by topramezone 25.2 g/ha; W<sub>7</sub>, Weed-free; and W<sub>8</sub>, Weedy check.