Table 1. Mean difference of weed seedbank densities by species as influenced by tillage system, 2009 to 2010.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Latin Name | Common Name | Bayer Code | Hay¶ (3) Crop (3) | Fallow†(1) Crop (2)ConventionalTillage  | Crop‡ (3)Continuous  | §Fallow (1)Crop (2) Consrv. Tillage  |
|  |  |  | -------------------------count m-2------------------------ |
| Amaranthus L. sp\* | Pigweed | AMASS | 997 b | -2202 b | 20220 ab | 36459 a |
| Ambrosia L. sp | Ragweed | AMBSS | -29 | 0 | -10 | -338 |
| Brachiaria platyphyl | Broad Leaf Signalgrass | BRAPP | -275 | 0 | -118 | 0 |
| Brassica L. sp | Wild Mustard | BRSSS | 289 | -283 | -222 | -1893 |
| Chenopodium L. sp | Lambsquarter | CHESS | -21 | 0 | -10 | 0 |
| Cyperus L. sp | Sedge | CYPSS | 5 | -10 | -225 | 49 |
| Digitaria sanguinali | Large Crab Grass | DIGAD | 92 | 0 | 10 | 193 |
| Echinochloa crusgall | Barnyard Grass | ECHCG | 10 | 19 | -119 | -43 |
| Elesuine indica | Goosegrass | ELEIN | -39 | 39 | -97 | 1176 |
| Ipomoea L. sp | Morninglory | IPOSS | 22 | 10 | 39 | -11 |
| Lamium sp\* | Deadnettle, Henbit | LAMSS | -4937 b | -6937 b | 10402 a | -2784 ab |
| Mollugo verticillata | Carpetweed | MOLVE | 19 | 29 | 142 | 106 |
| Oenothera laciniata | Cutleaf Evening Primrose | OEOLA | 402 | -10 | 3 | 51 |
| Oxalis stricta | Woodsorrel | OXAST | 146 | 0 | 537 | 1189 |
| Ranunculus L. sp\*\* | Buttercup | RANSS | -52 b | -58 b | 862 a | -608 b |
| Raphanus L. sp | Wild Radish | RAPSS | -287 | 10 | -19 | -305 |
| Rumex L. sp\*\* | Dock | RUMSS | -106 b | -19 ab | -4 ab | 82 a |
| Silene armeria | Catchfly | SILAR | -48 | 1559 | 1222 | 2170 |
| Sorghum halepense | Johnson grass | SORHA | -19 | 0 | -29 | 0 |
| Spergula L. sp | Corn Spurry | SPRSS | 204 | 88 | -1353 | -2052 |
| Stellaria media | Chickweed | STEME | -882 | -516 | 501 | 202 |
| Trifolium L. sp | Clover | TRFSS | 892 | 0 | 1068 | 1738 |

\*\* significant at p ≤ 0.05

\* significant at p ≤ 0.10

¶Three years of hay followed by 3 years of crops (cultivation and tillage for weed control)

†One year fallow-stale seed bed/summer cover crop/followed by 2 yrs crop (weed control from cultivation and tillage

‡Three years crops (cultivation and tillage for weed control)

§One year fallow-stale seed bed-summer cover crop/followed by 2 yrs crop (conservation tillage-smother crop/rolling no-till plant)