Supplementary Table 1. Weed density and corn yield in no cover crop plot averaged across years (2021 and 2022), Painter, VA.

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| --- | --- | --- | --- | --- | --- |
| Treatment | Weed densityb  (plants m-2) | | | | Yield  (t ha-1) |
|  | Grass | SSB | LSB | Sedge |  |
| NC-NT | 10b | 4.9b | 5.2b | 3.0a | 7.3b |
| NCT | 7.4a | 2.5a | 3.5a | 3.0a | 6.5a |

aNC-NT = No cover crop-no till, NCT = No cover crop tilled

bSSB = Small seeded broadleaf; LSB = Large seeded broadleaf. See Table 3 for specific species in each category.

The check plots were arranged in a randomized complete block design with four replications. ANOVA was performed for check plot data using PROC GLM model and means were separated using Tukey’s HSD post-hoc test at α < 0.05 in the SAS statistical software version 9.4 (SAS Institute, Cary, NC). Values followed by different alphabet for a weed group and yield are statistically significant at 5% level of significance

Supplementary figure 1. Average temperature (C) and precipitation (cm) during 2020-2021 in Painter, VA.

Supplementary figure 2. Average temperature (C) and precipitation (cm) during 2021-2022, and 2021-2022 in Painter, VA.