# Supplementary Table

# Profile and extent of herbicide-resistant waterhemp (*Amaranthus tuberculatus*) in Minnesota

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Supplementary Table 1. Detailed information on the *Amaranthus tuberculatus* populations collection sites in Minnesota.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Population | Year of collection | County | Crop |  | Population | Year of collection | County | Crop |  | Population | Year of collection | County | Crop |
| A1 | 2021 | Houston | Soybean  |  | A31 | 2020 | Fillmore | Soybean |  | A61 | 2020 | Winona | Soybean |
| A2 | 2020 | Carver | Soybean |  | A32 | 2020 | Renville | Soybean |  | A62 | 2021 | Good hue | Soybean |
| A3 | 2021 | Renville | Sugar beet |  | A33 | 2021 | Grant | Soybean |  | A63 | 2021 | Good hue | Soybean |
| A4 | 2021 | Pope | Soybean |  | A34 | 2021 | Douglas | Soybean |  | A64 | 2020 | Redwood | Soybean |
| A5 | 2021 | Rock | Soybean |  | A35 | 2020 | Olmsted | Soybean |  | A65 | 2021 | Olmsted | Soybean |
| A6 | 2021 | Pipestone | Soybean |  | A36 | 2021 | Carver | Soybean |  | A66 | 2021 | Mower | Soybean |
| A7 | 2021 | Big Stone | Soybean |  | A37 | 2021 | Carver | Soybean |  | A67 | 2021 | Renville | Soybean |
| A8 | 2021 | Traverse | Soybean |  | A38 | 2021 | Mcleod | Soybean |  | A68 | 2021 | Sibley | Soybean |
| A9 | 2021 | Wilkins | Sugar beet |  | A39 | 2020 | Dodge | Soybean |  | A69 | 2020 | Brown | Soybean |
| A10 | 2021 | Wilkins | Sugar beet |  | A40 | 2021 | Meeker | Sugar beet | A70 | 2021 | Stearns | Soybean |
| A11 | 2021 | Clay | Sugar beet |  | A41 | 2020 | Dodge | Soybean |  | A71 | 2021 | Nicolett | Soybean |
| A12 | 2021 | Norman | Sugar beet |  | A42 | 2021 | Kandyohi | Sugar beet | A72 | 2021 | Brown | Soybean |
| A13 | 2021 | Norman | Soybean |  | A43 | 2020 | Dodge | Soybean |  | A73 | 2021 | Watowania | Soybean |
| A14 | 2021 | Norman | Sugar beet |  | A44 | 2020 | Renville | Soybean |  | A74 | 2021 | Martin | Soybean |
| A15 | 2021 | Penningon | Soybean |  | A45 | 2020 | Olmsted | Soybean |  | A75 | 2021 | Martin | Soybean |
| A16 | 2020 | Cottonwood | Soybean |  | A46 | 2021 | Lac qui parle | Soybean |  | A76 | 2021 | Jackson | Soybean |
| A17 | 2021 | Stevens | Sugar beet |  | A47 | 2020 | Renville | Soybean |  | A77 | 2021 | Jackson | Soybean |
| A18 | 2021 | Becker | Soybean |  | A48 | 2021 | Yellow medicine | Soybean |  | A78 | 2021 | Cottonwood | Soybean |
| A19 | 2020 | Nobles | Soybean |  | A49 | 2021 | Lincoln | Soybean |  | A79 | 2021 | Murray | Soybean |
| A20 | 2021 | Swift | Sugar beet |  | A50 | 2021 | Lyon | Soybean |  | A80 | 2021 | Murray | Soybean |
| A21 | 2020 | Jackson | Soybean |  | A51 | 2021 | Redwood | Soybean |  | A81 | 2021 | Rock | Soybean |
| A22 | 2021 | Swift | Soybean |  | A52 | 2020 | Renville | Sugar beet | A82 | 2021 | Olmsted | Soybean |
| A23 | 2020 | Watonwan | Soybean |  | A53 | 2021 | Redwood | Soybean |  | A83 | 2020 | Murrey | Soybean |
| A24 | 2021 | Kandyohi | Soybean |  | A54 | 2020 | Carver | Soybean |  | A84 | 2021 | Swift | Soybean |
| A25 | 2021 | Stearns | Corn |  | A55 | 2020 | Carver | Soybean |  | A85 | 2021 | Benton | Soybean |
| A26 | 2020 | McLeod | Soybean |  | A56 | 2020 | Carver | Soybean |  | A86 | 2021 | Grant | Soybean |
| A27 | 2020 | Olmsted | Soybean |  | A57 | 2021 | Steele | Soybean |  | A87 | 2021 | Renville | Sugar beet |
| A28 | 2021 | Benton | Soybean |  | A58 | 2020 | Carver | Soybean |  | A88 | 2021 | Winona | Soybean |
| A29 | 2021 | Todd | Soybean |  | A59 | 2020 | Olmsted | Soybean |  | A89 | 2021 | Wright | Soybean |
| A30 | 2021 | Otter tail | Soybean |  | A60 | 2020 | Olmsted | Soybean |  | A90 | 2021 | Brown | Soybean |