Table S1. *Conyza canadensis* accession collection information, geographic location and known herbicide resistance.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Accession**  | **Latitude** | **Longitude** | **County** | **Province** | **Country** | **Year** | **Glyphosate resistance**  | **Other**  | **Citation** |
| **No.** | **(N)** | (W) |  |  |  |  | Discriminating dose  | ED50 | **resistance** |  |
| Cc1 | - | - | Essex | ON | CA | 1944 | - | - | - | - |
| Cc2 | 42.0343 | 82.89927 | Essex | ON | CA | 1971 | - | - | - | - |
| Cc3 | 42.03863 | 82.89561 | Essex | ON | CA | 1993 | - | - | - | - |
| Cc4 | 42.0631 | 82.67604 | Essex | ON | CA | 1994 | - | - | - | - |
| Cc5 | 42.0631 | 82.67604 | Essex | ON | CA | 1994 | - | - | - | - |
| Cc6 | 42.021541 | 82.94893 | Essex | ON | CA | 2002 | - | - | Group 22 | Smisek et al. 1998 |
| Cc7 | 42.033847 | 82.894238 | Essex | ON | CA | 2002 | - | - | - | Smisek et al. 1998 |
| Cc8 | 42.0124 | 82.92845 | Essex | ON | CA | 2011 | R | ≥3600 | - | Byker et al. 2013 |
| Cc9 | 42.05608 | 82.92043 | Essex | ON | CA | 2011 | R | ≥3600 | Group 2 | Byker et al. 2013 |
| Cc10 | 42.08816 | 83.09339 | Essex | ON | CA | 2011 | R | ≥3600 | - | Byker et al. 2013 |
| Cc11 | 42.10815 | 83.01791 | Essex | ON | CA | 2011 | R | ≥3600 | Group 2 | Byker et al. 2013 |
| Cc12 | 42.14993 | 82.89715 | Essex | ON | CA | 2011 | R | ≥3600 | - | Byker et al. 2013 |
| Cc13 | 42.16001 | 82.85863 | Essex | ON | CA | 2011 | R | - | Group 2 | Byker et al. 2013 |
| Cc14 | 42.230117 | 82.826417 | Essex | ON | CA | 2011 | R | - | - | Byker et al. 2013 |
| Cc15 | 42.55968 | 81.80225 | Essex | ON | CA | 2011 | R | ≥3600 | - | Byker et al. 2013 |
| Cc16 | 41.99934 | 82.95971 | Essex | ON | CA | 2012 | R | - | - | - |
| Cc17 | 42.00947 | 82.92468 | Essex | ON | CA | 2012 | R | - | - | - |
| Cc18 | 42.013145 | 82.927816 | Essex | ON | CA | 2012 | R | ≥3600 | - | - |
| Cc19 | 42.025005 | 82.92499 | Essex | ON | CA | 2012 | R | ≥3600 | - | - |
| Cc20 | 42.032082 | 82.90276 | Essex | ON | CA | 2012 | R | ≥3600 | - | - |
| Cc21 | 42.033847 | 82.894238 | Essex | ON | CA | 2012 | S | 120 | Group 22 | - |
| Cc22 | 42.04238 | 82.89141 | Essex | ON | CA | 2012 | R | - | - | - |
| Cc23 | 42.044194 | 82.891859 | Essex | ON | CA | 2012 | R | ≥3600 | - | - |
| Cc24 | 42.11062 | 83.07601 | Essex | ON | CA | 2012 | R | - | - | - |
| Cc25 | 42.13174 | 82.89031 | Essex | ON | CA | 2012 | R | - | - | - |
| Cc26 | 42.16483 | 83.06902 | Essex | ON | CA | 2012 | R | - | - | - |
| Cc27 | 42.22336 | 82.99233 | Essex | ON | CA | 2012 | R | ≥3600 | - | - |
| Cc28 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc29 | - | - | Kent | ON | CA | 2002 | S | - | - | -- |
| Cc30 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc31 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc32 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc33 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc34 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc35 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc36 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc37 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc38 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc39 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc40 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc41 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc42 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc43 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc44 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc45 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc46 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc47 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc48 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc49 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc50 | - | - | Kent | ON | CA | 2002 | S | - | - | - |
| Cc51 | 42.15143 | 82.50606 | Kent | ON | CA | 2010 | R | 473 | - | Byker et al. 2013 |
| Cc52 | 42.09526 | 82.51833 | Kent | ON | CA | 2011 | R | - | - | Byker et al. 2013 |
| Cc53 | 42.45731 | 81.89346 | Kent | ON | CA | 2011 | S | - | - | Byker et al. 2013 |
| Cc54 | 42.53728 | 81.64519 | Kent | ON | CA | 2011 | R | - | Group 2 | Byker et al. 2013 |
| Cc55 | 42.37488 | 82.08793 | Kent | ON | CA | 2012 | R | ≥3600 | Group 2 | Byker et al. 2013 |
| Cc56 | 42.52405 | 82.26706 | Kent | ON | CA | 2012 | R | - | Group 2 | Byker et al. 2013 |
| Cc57 | 42.09828 | 82.43571 | Lambton | ON | CA | 2011 | R | ≥3600 | Group 2 | Byker et al. 2013 |
| Cc58 | 42.75676 | 81.96248 | Lambton | ON | CA | 2012 | R | - | - | Byker et al. 2013 |
| Cc59 | 42.83088 | 81.87118 | Lambton | ON | CA | 2012 | S | 171 | - | Byker et al. 2013 |
| Cc60 | 42.9288 | 82.18946 | Lambton | ON | CA | 2012 | R | 291 | - | Byker et al. 2013 |
| Cc61 | 43.02843 | 82.08623 | Lambton | ON | CA | 2012 | R | ≥3600 | - | Byker et al. 2013 |
| Cc62 | 43.20446 | 81.67171 | Lambton | ON | CA | 2012 | R | - | Group 2 | Byker et al. 2013 |
| Cc63 | 43.21193 | 81.69821 | Lambton | ON | CA | 2012 | S | - | - | Byker et al. 2013 |
| Cc64 | 42.55723 | 81.77244 | Elgin | ON | CA | 2011 | R | ≥3600 | Group 2 | Byker et al. 2013 |
| Cc65 | 42.686633 | 81.414767 | Elgin | ON | CA | 2012 | R | - | - | - |
| Cc66 | - | - | Middlesex | ON | CA | 2004 | - | - | - | Byker et al. 2013 |
| Cc67 | 42.9175 | 81.60435 | Middlesex | ON | CA | 2011 | S | 182 | - | Byker et al. 2013 |
| Cc68 | 42.8341 | 81.64643 | Middlesex | ON | CA | 2012 | R | - | - | - |
| Cc69 | - | - | Norfolk | ON | CA | 2007 | S | - | - | - |
| Cc70 | - | - | Oxford | ON | CA | 1996 | - | - | - | - |
| Cc71 | - | - | Oxford | ON | CA | 2001 | - | - | - | - |
| Cc72 | - | - | Oxford | ON | CA | 2002 | S | - | - | - |
| Cc73 | - | - | Oxford | ON | CA | 2014 | R | - | - | - |
| Cc74 | 42.90878 | 79.39196 | Welland | ON | CA | 2011 | R | - | - | Byker et al. 2013 |
| Cc75 | 43.00421 | 79.36771 | Welland | ON | CA | 2012 | S | 134 | - | Byker et al. 2013 |
| Cc76 | - | - | Waterloo | ON | CA | 2002 | S | - | - | - |
| Cc77 | - | - | Waterloo | ON | CA | 2002 | S | - | - | - |
| Cc78 | - | - | Huron | ON | CA | 2004 | - | - | - | - |
| Cc79 | 43.59633 | 81.47631 | Huron | ON | CA | 2012 | S | 217 | - | Byker et al. 2013 |
| Cc80 | 43.60353 | 81.47039 | Huron | ON | CA | 2012 | S | 209 | - | Byker et al. 2013 |
| Cc81 | - | - | Wellington | ON | CA | 1997 | - | - | - | - |
| Cc82 | - | - | Wellington | ON | CA | 2001 | S | - | - | - |
| Cc83 | - | - | Wellington | ON | CA | 2002 | S | - | - | - |
| Cc84 | - | - | Wellington | ON | CA | 2004 | - | - | - | - |
| Cc85 | - | - | Wellington | ON | CA | 2004 | - | - | - | - |
| Cc86 | - | - | Wellington | ON | CA | 2004 | - | - | - | - |
| Cc87 | - | - | Wellington | ON | CA | 2012 | S | - | - | - |
| Cc88 | - | - | Wellington | ON | CA | 2012 | S | - | - | - |
| Cc89 | - | - | Wellington | ON | CA | 2012 | S | - | - | - |
| Cc90 | 43.5267 | 80.1818 | Wellington | ON | CA | 2013 | S | 237 | - | - |
| Cc91 | 44.909667 | 75.4426 | Leeds/Grenville | ON | CA | 2011 | S | - | - | - |
| Cc92 | - | - | Dundas | ON | CA | 2012 | S | - | - | Byker et al. 2013 |
| Cc93 | - | - | - | ON | CA | 1896 | - | - | - | - |
| Cc94 | - | - | - | ON | CA | 1987 | - | - | - | - |
| Cc95 | - | - | - | ON | CA | 2012 | S | - | - | Byker et al. 2013 |
|  |  |  |  |  |  |  |  |  |  | - |
|  |  |  | **Region** | **State** | **Country** |  |  |  |  | - |
| Cc96 | - | - | Houston | DE | USA | 2003 | R | - | - | VanGessel 2001 |
| Cc97 | - | - | Hubbardston | MI | USA | 2011 | R | 1295 | - | - |
| Cc98 | - | - | Houston | DE | USA | 2015 | R | 763 | - | - |