Supplementary Table 1. Information on kochia populations collected from western Kansas, western Oklahoma, and Texas High Plains during 2018 and 2019.

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| Population  | Longitude | Latitude | Comments |
| KS-1 | -99.3064 | 38.3199 | Wheat Stubble |
| KS-2 | -99.3087 | 38.3199 | Wheat Stubble |
| KS-3 | -99.3270 | 38.4663 | Wheat Stubble |
| KS-4 | -100.0704 | 38.4501 | Wheat Stubble |
| KS-5 | -100.3176 | 38.4802 | Wheat Stubble |
| KS-6 | -100.5242 | 38.6102 | Wheat Stubble |
| KS-7 | -100.5433 | 38.5116 | Wheat Stubble |
| KS-8 | -101.0500 | 39.4200 | Wheat Stubble |
| KS-9 | -101.6250 | 39.7570 | Wheat Stubble |
| KS-10 | -101.7070 | 39.5100 | Wheat Stubble |
| KS-11 | -101.7410 | 38.7300 | Wheat Stubble |
| KS-12 | -101.7700 | 38.4700 | Wheat Stubble |
| KS-13 | -101.7100 | 38.4400 | Wheat Stubble |
| KS-14 | -101.720 | 38.4300 | Wheat Stubble |
| KS-15 | -101.6500 | 38.4370 | Wheat Stubble |
| KS-16 | -101.6000 | 38.4220 | Wheat Stubble |
| KS-17 | -101.5901 | 38.4431 | Wheat Stubble |
| KS-18 | -101.5601 | 38.4044 | Wheat Stubble |
| KS-SUS | -99.3256 | 38.8537 | Sorghum Stubble |
| OK-1 | -97.3628 | 36.8586 | Wheat Stubble |
| OK-2 | -97.4603 | 36.7127 | Wheat Stubble |
| OK-3 | -97.6243 | 36.7413 | Wheat Stubble |
| OK-4 | -97.9238 | 36.6787 | Wheat Stubble |
| OK-5 | -98.3633 | 36.6976 | Wheat Stubble |
| OK-6 | -98.5781 | 36.8465 | Wheat Stubble |
| OK-7 | -99.4646 | 36.8592 | Wheat Stubble |
| OK-8 | -99.8351 | 36.8365 | Wheat Stubble |
| OK-9 | -100.6511 | 36.9671 | Wheat Stubble |
| OK-10 | -100.8032 | 36.9518 | Wheat Stubble |
| OK-11 | -101.0475 | 36.8646 | Wheat Stubble |
| OK-12 | -102.4604 | 36.7800 | Wheat Stubble |
| OK-SUS | -97.6039 | 36.7508 | Wheat Stubble |
| TX-1 | -101.5936 | 35.2661 | Cotton Field |
| TX-2 | -101.5006 | 35.3536 | Cotton Field Edge |
| TX-3 | -101.3817 | 35.2658 | Wheat Field Edge |
| TX-4 | -101.4228 | 35.2072 | Wheat Field Edge |
| TX-5 | -101.5322 | 35.2206 | Sorghum Field Edge |
| TX-6 | -102.0400 | 35.1800 | Sorghum Field Edge |
| TX-7 | -102.1494 | 35.2081 | Fallow Field Edge |
| TX-8 | -102.2025 | 35.1750 | Cotton Field Edge |
| TX-9 | -102.2042 | 35.0444 | Cotton Field Edge |
| TX-10 | -102.2653 | 34.9861 | Cotton Field Edge |
| TX-11 | -102.4025 | 35.0097 | Cotton Field Edge |
| TX-12 | -102.4383 | 35.0572 | Wheat Field Edge |
| TX-13 | -102.4100 | 34.9100 | Sorghum Field Edge |
| TX-14 | -102.5600 | 34.8100 | Wheat Field Edge |
| TX-15 | -102.5725 | 34.7590 | Cotton Field Edge |
| TX-16 | -102.7100 | 34.6600 | Wheat Field Edge |
| TX-17 | -102.6899 | 34.5261 | Fallow Field Edge |
| TX-18 | -102.5900 | 34.3800 | Fallow Field Edge |
| TX-19 | -102.4600 | 34.3600 | Corn Field Edge |
| TX-20 | -102.4600 | 34.4700 | Corn Field Edge |
| TX-21 | -102.3396 | 34.4250 | Wheat Field Edge |
| TX-22 | -102.0376 | 34.3918 | Cotton Field Edge |
| TX-23 | -101.7200 | 34.2900 | Fallow Field Edge |
| TX-24 | -102.0200 | 34.2600 | Cotton Field Edge |
| TX-25 | -102.0400 | 34.1900 | Fallow Field Edge |
| TX-26 | -101.8400 | 34.1100 | Cotton Field Edge |
| TX-27 | -102.0369 | 34.0361 | Fallow Field Edge |
| TX-28 | -101.9400 | 33.9700 | Fallow Field Edge |
| TX-29 | -101.8000 | 34.0700 | Fallow Field Edge |
| TX-30 | -101.8294 | 34.1997 | Cotton Field Edge |
| TX-31 | -101.6600 | 34.1700 | Corn Field Edge |
| TX-32 | -101.5022 | 34.1561 | Wheat Field Edge |
| TX-33 | -101.4753 | 34.0517 | Cotton Field Edge |
| TX-34 | -101.5700 | 34.0300 | Wheat Field Edge |
| TX-35 | -101.5500 | 33.9200 | Cotton Field Edge |
| TX-36 | -101.5133 | 33.8847 | Cotton Field Edge |
| TX-37 | -101.6608 | 33.8656 | Corn Field Edge |
| TX-38 | -101.7653 | 33.4214 | Cotton Field Edge |
| TX-39 | -101.5100 | 33.7700 | Wheat Field Edge |
| TX-40 | -101.6500 | 33.7400 | Fallow Field Edge |
| TX-41 | -101.7500 | 33.6900 | Cotton Field Edge |
| TX-42 | -101.8700 | 33.7700 | Pasture Edge |
| TX-43 | -102.0567 | 33.7664 | Cotton Field Edge |
| TX-44 | -102.1100 | 33.6900 | Cotton Field Edge |
| TX-45 | -102.0400 | 33.6500 | Cotton Field Edge |
| TX-46 | -102.6010 | 33.6300 | Cotton Field Edge |
| TX-47 | -102.1400 | 33.6200 | Fallow/Pasture Edge |
| TX-48 | -102.2100 | 33.5400 | Cotton Field Edge |
| TX-49 | -102.1200 | 33.4500 | Cotton Field Edge |
| TX-SUS | -101.5567 | 35.2739 | Sorghum Field Edge |