

**Table S1.** Source and fate of *H. zea* collections.

Year	State	County or City	GPS	Collection Date	Host	Date Bioassay Performed, <i>H. zea</i> generation		Reason Bioassay(s) not Performed	
						Cry1Ac	Cry2Ab2 (2019 only)	Cry1Ac	Cry2Ab2
2018	AL	Augusta	32.4379, 86.5982	9 July	non-Bt corn	-	-	F <sub>1</sub> females laid non-viable eggs	-
2018	AL	Montgomery	32.4036, 86.1778	20 June	non-Bt corn	-	-	F <sub>1</sub> females laid non-viable eggs	-
2018	FL	Santa Rosa	30.7747, 87.1367	29 June	VT2PRO <sup>a</sup> corn	-	-	F <sub>1</sub> females laid non-viable eggs	-
2018	GA	Sumter	32.0378, 84.3696	18 July	non-Bt corn	25 Sept., F <sub>2</sub> <sup>b</sup>	-	-	-
2018	GA	Tifton	31.3913, 83.5484	23 July	non-Bt sweet corn <sup>c</sup>	-	-	-	-
2018	NC	Lenoir	35.2436, 77.7748	2 July	non-Bt corn	5 Aug., F <sub>1</sub>	-	-	-
2018	NC	Sampson	35.2591, 78.3564	25 June	non-Bt corn	5 Aug., F <sub>1</sub>	-	-	-
2018	SC	Barnwell	33.3504, 81.3064	18 June	non-Bt corn	24 July, F <sub>1</sub>	-	-	-
2018	SC	Barnwell	-	5 Aug.	grain sorghum <sup>d</sup>	-	-	Lost colony during hurricane	-
2018	SC	Darlington	34.2979, 79.7398	5 July	VT2PRO corn	-	-	F <sub>1</sub> females laid non-viable eggs	-
2018	SC	Darlington	34.2979, 79.7398	12 July	non-Bt corn	-	-	Not enough viable eggs	-
2018	VA	Suffolk	36.5826, 76.5966	12 July	VT2PRO corn	-	-	Not enough viable eggs	-
2018	VA	Suffolk	36.6774, 76.7556	20 July	non-Bt corn	-	-	Not enough viable eggs	-
2018	VA	Suffolk	36.5827, 76.5966	20 July	non-Bt corn	-	-	Not enough viable eggs	-

2018	VA	Dinwiddie	37.1312, 77.8951	-	17 Aug.	unknown	-	-	Not enough viable eggs	-
2019	AL	Autagua	32.4402, 86.5948	-	16 June	Herculex <sup>c</sup> corn	-	-	Not enough viable eggs	Not enough viable eggs
2019	AL	Henry	31.3591, 85.3205	-	25 June	non-Bt corn	2 Aug., F <sub>1</sub>	31 July, F <sub>1</sub>	-	-
2019	AL	Macon	32.4235, 85.8402	-	8 July	non-Bt corn	-	-	unknown	unknown
2019	FL	Santa Rosa 1 <sup>f</sup>	30.7759, 87.1365	-	21 June	Obsession <sup>a</sup> sweet corn	31 July, F <sub>1</sub>	2 Aug., F <sub>1</sub>		
2019	FL	Santa Rosa 2	30.7759, 87.1365	-	17 June	Bt and non-Bt corn	-	-	unknown	unknown
2019	NC	Washington 1	35.8523, 76.6518	-	unknown	single female from a light trap	17 July, F <sub>1</sub>	18 July, F <sub>1</sub>	-	-
2019	NC	Washington 2	35.8523, 76.6518	-	unknown	single female from a light trap	17 July, F <sub>1</sub>	19 July, F <sub>1</sub>	-	-
2019	NC	Edgecombe	35.9905, 77.7619	-	unknown	non-Bt corn	unknown	unknown	-	-
2019	NC	Surry	36.4761, 80.6408	-	unknown	non-Bt corn	28 Oct., F <sub>2</sub>	28 Oct., F <sub>2</sub>	-	-
2019	NC	Wayne	35.2792, 77.8558	-	unknown	non-Bt corn	15 Oct., F <sub>2</sub>	15 Oct., F <sub>2</sub>	-	-
2019	NC	Wilkes	36.3162, 80.992	-	unknown	non-Bt corn	1 Oct., F <sub>2</sub>	2 Oct., F <sub>2</sub>	-	-
2019	SC	Barnwell 1	33.3516, 81.3073	-	2 July	non-Bt corn	29 July, F <sub>1</sub>	29 July, F <sub>1</sub>	-	-
2019	SC	Barnwell 2	33.3152, 81.3073	-	2 July	non-Bt corn	5 Aug., F <sub>1</sub>	unknown	-	-
2019	SC	Darlington	34.2979, 79.7398	-	1 July	non-Bt corn	unknown, F <sub>2</sub>	unknown, F <sub>3</sub>	-	-
2019	VA	Suffolk	36.6787, 76.7548	-	8 July	non-Bt corn	-	5 Aug, F <sub>1</sub>	unknown	-

<sup>a</sup>Bayer Crop Science. <sup>b</sup>Indicates the generation that we bioassayed. <sup>c</sup>*Zea mays* convar. *saccharata* var. *rugosa* <sup>d</sup>*Sorghum bicolor*. <sup>e</sup>Corteva, Indianapolis, ID. <sup>f</sup>Denotes that we made multiple collections within the same county. Refer to the GPS coordinates for the specific location within the same county.