

Table 1. Studies on abundance and prevalence of *Ahasverus advena*.

Maximum <i>A. advena</i>	Type sample	Country	Facility (Commodity) ¹	Author/year
Abundance				
rare	grain samples	Washington, US	empty elevator bin (WH)	Chao, Y. 1954
small numbers	sticky traps	Nigeria	warehouse (CB)	Riley 1957
mean of 0.12	probe traps	Wisconsin, US	flat storage (CO)	Nansen et al. 2004
2	traps	Portugal	flour mill, grain storage	Duarte et al. 2024
5 per month	cardboard traps	Kansas, US	elevator (WH)	Dowdy & McGaughey 1998
5.2	probe, sticky	Minnesota, US	farm (CO)	Dunkel & Read 1986
6.8	probe trap	Oklahoma, US	farm (WH)	Vela-Coiffier et al. 1997
7	nut samples	Nigeria	bag storage (GN)	Smith 1963
>10	sieving bag	Ghana	central storage (CB)	Cranham 1960
11.5	grain samples	Kentucky, US	farm (CO)	Sedlacek et al. 1998
12	sticky traps	Florida, US	botanical warehouse (SP)	Arbogast et al. 2002
19	grain samples	South Dakota, US	farm (OA)	Ingemansen et al. 1986
41	food bait	Kansas, US	feed mill	Roesli et al. 2003b
42	probe traps	Minnesota, US	farm (CO)	Subramanyam et al. 1993
44 of 936 cargos	inspection	England	import (CP)	Aitken 1975
44	grain samples	New Jersey, US	farm (WH)	Chapman 1960
49	dome traps	OK, TX, US	storage facility (PC)	Shufan et al. 2013
>50 per 2 weeks	sticky traps	Kentucky	farm (WH)	Weston & Barney 1998
52	bag sieving	Malaysia	plantation warehouse (CB)	Hamid & Lopez 2000
53	suction trap	Nigeria	bag stack (CB)	Okobi 1978
69 adult & 57 larva	grain samples	Canada	farm (OA)	Sinha 1961
82	food bait	Indonesia	central storage (RI)	Hodges 1985
82 per kilogram	sampling	Yugoslavia	insecticide test (SF)	Stanković et al. 1968
95 (11.1% all insects)	grain samples	Illinois, US	experimental bin site (CO)	Quinlan 1967
95 per week	suction trap	Canada	outdoor	White et al. 1995
96	3 kg samples	Côte d'Ivoire	producer (CF)	Christian et al. 2019
100 insects per trap	probe traps	Canada	farms (BA, OA, WH)	Madrid et al. 1990
>120 per month	sticky traps	Kansas, US	warehouse (SW)	Toews et al. 2006
132	bean samples	Virginia, US	port warehouse (CB)	Bullington & Pienkowski 1993
134	peanut samples	Alabama, US	storage bin (PE)	Arthur 1956
141	grain residue	Kansas, US	grain elevator (WH)	Arthur et al. 2006
149	probe traps	Oklahoma, US	elevator (WH)	Gates 1995
151	pitfall traps	Kansas, USA	flour mill, warehouse	Toews et al. 2006a
154.9 per day	wet UV light trap	Indonesia	warehouse (RI)	Sukardi 1981
155	2 kg sample	Georgia, USA	500 bushel bins (CO)	Brower & Press 1992
166	dome traps	southeastern US	peanut shelling plant (PE)	Perez et al. 2020
178	probe traps	Kansas, US	farm (WH)	Dowdy & McGaughey 1994
201	food bait	Japan	store, market (CN)	Nakao et al. 1970
264	food bait	Vietnam	granary (MA)	Van Dzuong & Long 2020
265	probe traps	Kansas, US	farm bin (WH)	Arthur & Casada 2010, 2016
274	grain samples	Germany	import (RI)	Stejskal & Kučerová 1993
298	sticky traps	Nigeria	export warehouse (PK)	Cotterel 1952
420	probe trap	Texas, US	farm bin (RI)	Sellner 2013
425 per day	UV trap	Germany	poultry farm	Stolzenberg&Wohlgemuth 1992
470	sampling	North Carolina, US	poultry house manure	Pfeiffer & Axtell. 1980
489	probe traps	Kentucky, US	farm (CO)	Sedlacek et al. 1998
533	probe traps	Kansas, US	farm bin (WH)	Sellner 2013
629	sticky traps	Midwest, US	feed mill interior	Larson et al. 2008
647	sticky traps	Nigeria	transit shed (PK)	Allotey 1988
668	interceptions	India	import (CH)	DPPQS 2024
755	grain samples	S. Wisconsin, US	feed mill	Pellitteri & Boush 1983
1206	palm oil traps	Nigeria	transit shed (PK)	Allotey & Kumar 1989
1492	inspection	Belgium	import (CB)	Janssens & de Clercq 1990
1807	food bait	S. Carolina, US	farm bin (CO)	Throne and Cline 1994
1897	UV light, observe	Many	outdoor	GBIF 2024a
3602	ventilator traps+	Kansas, US	farm (WH)	Schwitzgebel & Walkden 1944
5278	probe, sticky	Kansas, US	farm (WH)	Hagstrum 2000
5887	wet UV light trap	Indonesia	Warehouse (RI)	Sukardi 1981
6882	bean samples	Belgium	import (CB)	Moermans et al. 1998
8757	sticky traps	S. Carolina, US	farm bin (CO)	Throne and Cline 1994
13278	bag sieving	Brazil	warehouse (CB)	Abreu 1979
Tens of thousands	Observation	England	haystack	Donisthorpe 1936

prevalence

0.39% of all insects	food bait	Kansas, US	feed mill	Roesli et al. 2003b
0.41% of all insects	sticky traps	Greece	warehouse (CU)	Athanassiou & Eliopoulos 2003
0.9% of 426 oilseed cargos	inspection	Japan	imports (OS)	Kiritani et al. 1959
1 facility	food bait trap	California, US	non-storage facility	Strong, 1970
3 counties	grain samples	S. Carolina, US	farm (WH)	Horton 1982
3 of 5 ships	inspect	Nigeria	transit shed (CB, GN)	Cornes & Ogunmodede 1960
4 of 8 retail stores.	traps	Kansas, US	retail store	Roesli et al. 2003a
5 times	survey	Hawaii	many (MY)	Loschiavo & Okumura 1979
7	sticky traps	Angola	warehouse	Pacavira et al. 2006
7.6% of 157 elevators	inspect, sample, trap	United Kingdom	elevator (BA, WH, MY)	Prickett 1991
10% of all insects	grain samples	Kansas, US	storage bin (WH)	Walkden 1951
9.5% of 21 samples	bean samples	S. Sulawesi, Indonesia	trader (CB)	Dharmaputra et al. 1999
10.6% of 142 bins	grain samples	S. Carolina, US	farm (WH)	Horton 1981
12 times	survey	Canada	elevator	Sinha & Watters 1985
16% of 1257 cargos	inspection	United Kingdom	import (PK)	Howe & Freeman 1955
16% of 2918 corn samples	grain samples	US	farm (CO)	Storey et al. 1983
17.3% of 294 samples	grain samples	Java	7types storage(19 commodity)	Haines & Pranata 1982
19 counties	khapra beetle survey	California, US	many (MY)	Strong 1958
19 interceptions	inspection	S. California, US	import (MY)	Olsen 1981
19% 154 bins	grain samples	Kansas, US	farm (WH)	Bell et al. 1972
21% empty bins	grain residue samples	Canada	farm (RS)	Liscombe & Watters 1962
22 of 762 samples	samples	Canada	empty farm bin (RS)	Smith & Barker 1987
27 of 150 samples	wheat heads	TX, OK, KS, MO, US	wheat field	Cotton & Winburn 1941
30.1% 53 farms	food bait	Mexico	farm (MY)	Leos-Martinez 1991
32 out 34 bins	probe traps	Kansas, US	farm (WH)	Hagstrum 2001
33.30% of 15 samples	bean samples	S. Sulawesi, Indonesia	exporter (CB)	Dharmaputra et al. 1999
41.6% 75 interception	inspection	Minnesota, US	cargo container	Ouellette 2018
52% of 25 bins	grain samples	Minnesota, US	farm (CO)	Barak & Harein 1981
54% all insects	probe traps	Kansas, US	farm (WH)	Sellner 2013
57.1% 14 bins	probe, grain	Kansas, US	farm (WH)	Hagstrum et al. 1994
60% of 35 facilities	grain samples	Java	7types storage(19 commodity)	Haines & Pranata 1982
61 interceptions	inspection	Arizona, Calif., US	import (MY)	Zimmerman 1990
61.7% 47 bins	grain samples	Minnesota, US	grain elevator (CO)	Barak & Harein 1981
64 species	survey	Korea	storage (MP)	Jo 2003
66.3% 134 bins	grain samples	Kentucky, US	farms (CO)	Sedlacek et al. 1998
75% beetles	probe traps	Florida, US	farm (OA)	Arbogast et al. 2000b
75% of 8 traps	traps	Australia	bunker (WH)	Barrer 1983
81% all species	bean samples	Belgium	import (CB)	Casteels et al. 1996
92% of 24 counties	grain samples	Kentucky, US	farm (CO)	Sedlacek et al. 1998
300	complaints	Germany	apartment	Engelbrecht 1982
most common	observation	Malaya	estate, port (CP)	Corbett et al. 1937

1. barley (BA), cocoa beans (CB), coffee beans (CF), cashew (CH), confectionery (CN), corn (CO), copra (CP), currants (CU), groundnuts (GN), grain (GR), maize (MA), medicinal plants (MP), many (MY), oats (OA), oilseed (OS), peanuts (PE), pecans (PC), palm kernels (PK), rice (RI), residual grain (RS), saw palmetto (SP), seed wheat (SW), sunflower seed (SF), wheat (WH) are commodity abbreviations.