

Table S1: All recorded characteristics of reviewed studies. All recorded characteristics of studies (n=24) included in the systematic review of methods used to evaluate school foodservice packaging waste, sorted by method.

Author(s)	Year	Method(s)	Objective and Subjective Measures	Waste Bin Types	Observational / Experimental (Study Design)	Country (State/Province)	School Type (Number of Schools Studied)	Environment Assessed	Study Participants	Number of Study Participants	Racial and Socio-economic Demographics	Intervention	Intervention Period	Waste Audit Data Collection Period	Publication Type
Arazo RA [38]	2015	waste audit (sorted + weighed)	food packaging waste categorized: paper and paper products, hard plastics, soft plastics, glasses, metals, woods, food leftovers, yard, textile, inorganic, hazardous, special wastes	trash	observational (cross-sectional)	Philippines (--)	college/university (1)	whole school	students, staff, and administrators	--	--	--	--	4-week sampling period	peer-reviewed
Castrejon A [34]	2008	waste audit (sorted + weighed)	food packaging waste categorized: mixed paper, food scrap and yard waste, cans/bottles, trash	trash, recycling (mixed paper), recycling (cans/bottles), compost (food scraps and yard waste)	observational (cross-sectional)	US (CA)	elementary school (3)	whole school	students	940	geographic information; ethnicity	--	--	one 10-week waste audit	master's thesis

Felder MAJ [41]	2001	waste audit (sorted + weighed)	food packaging waste categorized: animal bedding, animal waste, cloth, food, wood, glass, paper, plastic (#1, 2, 5), plastic (#3, 4, 6, 7) metal (aluminum), metal (ferrous), miscellaneous	trash, recycling, compost (food scraps)	observational (cross- sectional)	Canada (British Columbia)	college/ university (1)	whole school	students, staff, and administrators	--	--	--	--	three- plus 1- day waste audits per activity area	peer- reviewed
Gallardo A [39]	2016	waste audit (sorted + weighed)	food packaging waste categorized: plastics (PET, HDPE, LDPE, PP and PS), ferrous metals, nonferrous metals, clean and dirty paper, clean and dirty cardboard, Tetra Brick cartons, glass, organic matter, sanitary cellulose, rubber and	trash	observational (cross- sectional)	Spain (--)	college/ university (1)	whole school	students, staff, and administrators	17,792	--	--	--	two 1- day waste audits	peer- reviewed

			leather, toxic and hazardous waste, inert waste												
Hahn NI [14]	1997	waste audit (sorted + weighed)	food packaging waste categorized: carton, pouch, cardboard, metal cans, compost	trash	experimental (pretest-posttest)	US (LA)	K-12 (6)	cafeteria	students	--	--	waste-reduction or recycling adoption program	--	--	peer-reviewed
James L [43]	2015	waste audit (sorted + weighed)	food packaging waste categorized: recycling, trash, compost	trash, recycling, & compost (food scraps)	experimental (cross-sectional)	US (WA)	elementary school (n/a)	whole school	students, staff, and administrators	847	ethnicity	waste-reduction or recycling adoption program	1 month - 1 year	three 1-day waste audits	peer-reviewed
Ramamoorthy R [37]	2019	waste audit (sorted + weighed)	food packaging waste categorized: food, paper, silt/ soil/ mud, plastic, wood/ glass/ metal/ textile, clinical/ sanitary, e-waste, other	student waste, campus waste	observational (cross-sectional)	India (--)	K-12 (487)	whole school	students	255,248	geographic information	--	--	one 5-day waste audit	peer-reviewed

Ravenelle J [51]	2018	waste audit (sorted + weighed)	food packaging waste categorized: trash, recycling, food, liquid	trash, recycling, compost (food scraps and liquid waste)	experimental (cross-sectional)	US (ME)	elementary school (3)	cafeteria	students	1,669	geographic information; FRPM	waste-reduction or recycling adoption program	<1 month	three 1-day waste audits	peer-reviewed
Schumpert K [48]	2012	waste audit (sorted + weighed)	food packaging waste categorized: comingled containers, paper, cardboard, food waste, non-recyclable paper	trash, recycling, compost (food scraps)	experimental (cross-sectional)	US (CO)	K-12 (31)	whole school	students, staff, and administrators	--	--	waste-reduction or recycling adoption program; formal education	1 month - 1 year	--	report
Schupp CL [52]	2018	waste audit (sorted + weighed)	food packaging waste categorized: reusable food items, compost, recycling, trash	trash, recycling, compost (food scraps)	experimental (cross-sectional)	US (WA)	K-12 (18)	cafeteria	students, staff, and administrators	18	FRPM	formal education	>1 year	one 18-day waste audit	peer-reviewed
Hollingsworth M [50]	1995	waste audit (sorted + weighed + volume)	food packaging waste categorized: food, oil/suet, cardboard, paper, metal, plastic, glass, milk component, plate waste,	trash, recycling	experimental (cross-sectional)	US (LA)	K-8 (7)	cafeteria	staff and administrators	6,513	--	waste-reduction or recycling adoption program	<1 month	two 10-day waste audits	peer-reviewed

			miscellaneous												
Baca J [35]	2011	questionnaire	food packaging waste categorized: recycling, trash, compost	trash, recycling, compost	observational (cross-sectional)	US (Multiple States)	K-12 (n/a)	cafeteria	staff and administrators	79	--	--	--	--	master's thesis
Chan TC [46]	2013	questionnaire	level of MSW practices	n/a	experimental (cross-sectional)	US (GA)	K-12 (30)	whole school	students, staff, and administrators	30	ethnicity; FRPM	formal education	--	--	report
Fleckenstein RM [47]	2016	questionnaire	food packaging waste categorized: paper, plastic, styrofoam, metal	trash, recycling, compost	observational (cross-sectional)	US (NJ)	K-12 (34)	whole school	staff and administrators	75	geographic information	--	--	1 day	doctoral dissertation
Iojă CI [36]	2012	questionnaire	level of food packaging knowledge	--	observational (cross-sectional)	Romania (--)	K-12 (457)	whole school	students, staff, and administrators	218	--	--	--	--	peer-reviewed
Vitamog AT [42]	2012	questionnaire	level of MSW practices	--	observational (cross-sectional)	Philippines (--)	middle school (n/a)	cafeteria	students, staff, and administrators	--	--	--	--	--	peer-reviewed
Wie S [17]	2003	multiple methods - modeling, case studies, interviews	economics of labor, fees, and services	--	observational (cross-sectional)	-- (--)	K-12 (110)	cafeteria	staff and administrators	3,000	--	--	--	--	peer-reviewed

Smyth DP [40]	2010	multiple methods - interviews , waste audit (sorted + weighed)	food packaging waste categorized: paper and paperboard, disposable hot beverage cups, beverage containers, plastics, expanded polystyrene, glass, ferrous metals, non-ferrous metals, organic material, hazardous by-products, electronic waste, non-recyclable other; level of MSW practices	trash, recycling, compost (food scraps)	observational (cross-sectional)	Canada (British Columbia)	college/university (1)	whole school	students, staff, and administrators	5,038	--	--	--	two 5-day waste audits	peer-reviewed
Palmer S [32]	2021	multiple methods - interviews , observations	food packaging waste categorized: packaging waste, recycling, food waste; level of MSW practices	trash	observational (cross-sectional)	US (CO)	K-12 (13)	cafeteria	staff and administrators	20	FRPM	--	--	--	peer-reviewed

Prescott MP [49]	2019	multiple methods - food systems awareness poster analysis, questionnaire before and after intervention	level of food packaging knowledge	--	experimental (pretest-posttest)	US (CO)	middle school (2)	cafeteria	students	268	ethnicity	formal education	<1 month	--	peer-reviewed
Cunningham-Scott CB [44]	2005	multiple methods - curbside recycling reports, control comparison and experiment schools identified, intervention, waste audits (sorted + weighed + got volume) before and after intervention, questionnaire, waste hauler reports	food packaging waste categorized: paper, food waste, cardboard, comingled recyclables, non-recyclable trash; participation rates; level of food packaging knowledge	recycling (mixed paper), recycling (cans/bottles)	experimental (pretest-posttest)	US (TX)	elementary school (3)	whole school	students, staff, and administrators	558	geographic information; ethnicity; English proficiency	waste-reduction or recycling adoption program; formal education	1 month - 1 year	5-day waste audit	master's thesis

Ward MN [18]	2014	multiple methods - case study (tool formation) , test case (informal interviews , intervention, waste audit (sorted + weighed) before and after intervention)	food packaging waste categorized: trash, paper, aluminum, plastics; level of MSW practices	trash, recycling (mixed paper), recycling (cans/bottles)	experimental (pretest-posttest)	US (NY)	elementary school (1)	whole school	students, staff, and administrators	--	geographic information	assessment of recycling programs	<1 month	two 5-day waste audits	peer-reviewed
Cagnassola L [7]	2016	modeling	food packaging waste categorized: reusable trays, reusable utensils, plastic utensils, foam trays, compostable utensils, compostable trays	--	observational (cross-sectional)	US (NY)	high school (1)	cafeteria	students	450	--	--	--	--	master's thesis
Prestin A [19]	2010	focus groups	level of knowledge, attitudes, and behaviors towards recycling	--	observational (cross-sectional)	US (West Coast)	high school (--)	whole school	students	62	geographic information	--	--	--	peer-reviewed

