

CalRecycle's Waste Characterization Database - Updated and Expanded

CRRA

August 8, 2016

Sacramento



What is Waste Characterization?

- Determine what's placed in discard streams – disposal, recycling, organics
- Determine types and amounts of paper, food, glass, metal, etc. in each stream
- Field sampling and sorting of materials, and other field measurements

CalRecycle's 2014 Study – 2 Methods Used

- Facility-based method – disposed waste only
 - Take samples of materials at sites where they are delivered, such as landfills or transfer stations
 - Statewide characterization of disposed waste by sector (residential, commercial, self haul) – repeat of 2008 study (Task 1)
- Generator-based method – commercial and multi-family
 - Take samples of materials at sites where they are generated, such as businesses or apartment complexes
 - Commercial waste detailed by 16 business groups and multi-family waste, **both disposal and diversion**

Generator Waste and Diversion Characterization



Pre-Field Work – Business Groups

Select 16 business groups based on Federal NAICS* Codes

- Focus on business types that are major employers in CA
- Group business types with similar waste streams (like office-type businesses)
- Separate large organics generators
- Group businesses that have smaller employment and atypical waste streams (like utilities, mining, pipeline transportation)

*North American Industry Classification System

CalRecycle 2014 Business Groups for Waste Characterization Study

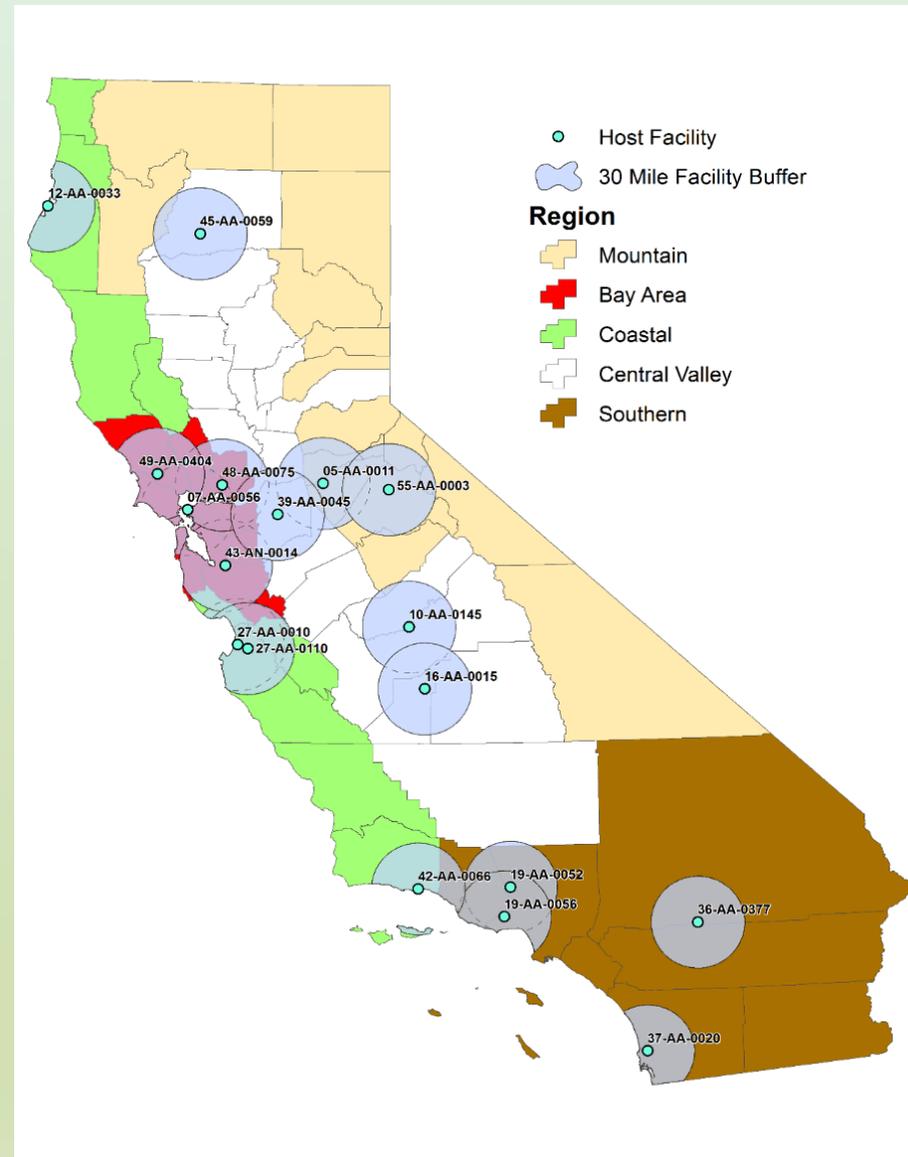
Arts, Entertainment & Recreation	Manufacturing - All Other	Services - Management, Admin., Support, & Social
Durable Wholesale & Trucking	Medical & Health	Services - Professional, Technical, & Financial
Education	Public Administration	Services - Repair and Personal
Hotels & Lodging	Restaurants	Not Elsewhere Classified
Manufacturing - Electronic Equipment	Retail Trade - Food & Beverage Stores	Multi-family
Manufacturing - Food & Nondurable Wholesale	Retail Trade - All Other	

Pre-Field Work – Sampling Plan

- 850 Disposal Composition Samples – 50 businesses or multi-family sites per group
- 430 Diversion Composition Samples (all diversion was measured) – 25 businesses per group, but 30 for multi-family; chosen randomly from the 850 used for disposal sampling

Pre-Field Work – Sampling Areas and Business Recruitment

- Used same 5 regions as previous studies
- 4 sampling areas per region, but 2 for Mountain
- Sampling area “nodes” based around solid waste facilities for sorting and disposal of samples
- Gracious cooperation by facilities to be “base camps” for sorting
- Sampling occurred during 4 seasons – really, every month of the year
- Business lists from each node used to randomly call and recruit business sites





Field Work for Generator-Based Sampling

Measure amounts of materials present in bins



Take samples



Transport and sort waste samples at solid waste facility



Sort recyclables on-site





Weigh materials and record all field data



Also interview to gather information on diversion apart from recycling/organics bin service

Composition Summary tables

Material	Disposed		Curbside Reycle		Curbside Organic		Other Diversion		Total Generation	
	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons
Paper	26.8%	748,481	88.1%	216,260	2.8%	5,862	20.4%	20,228	28.3%	887,811
Uncoated Corrugated Cardboard	2.0%	56,636	61.3%	193,718	1.0%	2,074	19.5%	19,353	7.8%	271,780
Paper Bags	0.3%	8,983	0.3%	1,006	0.0%	0	0.0%	0	0.3%	9,989
Newspaper	2.6%	76,093	0.3%	884	0.4%	750	0.4%	410	2.2%	78,136
White Ledger Paper	0.7%	19,631	0.4%	1,145	0.0%	0	0.1%	101	0.6%	20,877
Other Office Paper	0.3%	9,087	0.6%	1,872	0.0%	0	0.0%	0	0.3%	10,959
Magazines and Catalogs	0.2%	6,468	0.4%	1,183	0.0%	0	0.0%	0	0.2%	7,652
Phone Books and Directories	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Miscellaneous Paper - Compostable	0.6%	16,158	1.5%	4,834	0.9%	1,897	0.0%	0	0.7%	22,890
Other Miscellaneous Paper - Other	2.1%	59,722	1.8%	5,808	0.0%	0	0.4%	365	1.9%	65,895
Remainder/Composite Paper - Compostable	12.2%	350,240	0.9%	2,870	0.3%	568	0.0%	0	10.1%	353,679
Remainder/Composite Paper - Other	5.0%	143,463	0.6%	1,529	0.3%	563	0.0%	0	4.2%	145,954
Glass	2.7%	78,068	12.0%	37,882	8.8%	13,888	64.8%	64,176	6.3%	186,082
Clear Glass Bottles and Containers	1.6%	45,721	5.2%	16,328	2.5%	5,019	5.9%	5,875	2.1%	72,943
Green Glass Bottles and Containers	0.5%	14,312	5.4%	17,121	3.6%	7,325	13.4%	13,239	1.5%	51,997
Brown Glass Bottles and Containers	0.5%	13,681	1.3%	4,081	0.8%	1,522	35.4%	35,061	1.6%	54,345
Other Glass Colored Bottles and Containers	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Flat Glass	0.0%	59	0.0%	0	0.0%	0	0.0%	0	0.0%	59
Remainder/Composite Glass	0.2%	5,286	0.1%	452	0.0%	0	0.0%	0	0.2%	5,738
Metal	2.1%	61,208	2.8%	8,788	0.4%	717	4.0%	3,688	2.1%	74,848
Tin/Steel Cans	1.1%	31,374	2.4%	7,616	0.2%	347	1.4%	1,418	1.2%	40,755
Major Appliances	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil Filters	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Ferrous	0.4%	12,115	0.0%	0	0.0%	55	0.1%	77	0.4%	12,248
Aluminum Cans	0.1%	4,157	0.2%	748	0.0%	61	2.5%	2,491	0.2%	7,456
Other Non-Ferrous	0.2%	5,191	0.1%	260	0.1%	254	0.0%	0	0.2%	5,704
Remainder/Composite Metal	0.3%	8,371	0.0%	115	0.0%	0	0.0%	0	0.2%	8,485
Electronics	0.0%	0	0.0%	184	0.0%	0	0.1%	88	0.0%	200
Brown Goods	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Computer-related Electronics	0.0%	0	0.0%	0	0.0%	0	0.1%	66	0.0%	66
Other Small Consumer Electronics	0.0%	0	0.0%	134	0.0%	0	0.0%	0	0.0%	134
Video Display Devices	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Plastic	12.2%	360,384	8.8%	30,807	1.2%	2,462	0.2%	186	11.0%	383,808
PETE Plastic Containers	0.6%	17,174	2.6%	8,307	0.2%	436	0.1%	86	0.7%	25,004
HDPE Plastic Containers	0.6%	17,639	2.5%	7,965	0.0%	0	0.0%	27	0.7%	25,631
Miscellaneous Plastic Containers	0.4%	10,363	0.8%	2,497	0.1%	116	0.0%	0	0.4%	12,976
Plastic Trash Bags	3.3%	94,146	0.3%	1,040	0.1%	121	0.0%	0	2.7%	95,308
Plastic Grocery and Other Merchandise Bags	0.1%	3,587	0.0%	134	0.0%	0	0.0%	0	0.1%	3,711
Non-Bag Commercial and Industrial Packaging Film	0.0%	936	0.1%	349	0.1%	138	0.0%	0	0.0%	1,423
Film Products	0.0%	0	0.0%	92	0.0%	0	0.0%	0	0.0%	92
Other Film - Other	3.3%	94,003	1.4%	4,414	0.8%	1,636	0.0%	0	2.9%	100,053
Durable Plastic Items - #2 and #5 Bulky Rigid	0.0%	929	1.4%	4,272	0.0%	0	0.1%	52	0.2%	5,263
Durable Plastic Items - Other	0.2%	6,590	0.0%	119	0.0%	0	0.0%	0	0.2%	6,709
Remainder/Composite Plastic	3.7%	105,016	0.5%	1,727	0.0%	6	0.0%	0	3.1%	106,749
Other Organic	64.9%	1,680,144	7.2%	22,803	88.7%	179,640	20.7%	20,646	61.8%	1,808,188
Food	50.8%	1,461,319	5.6%	17,706	73.2%	145,160	20.7%	20,545	47.2%	1,647,730
Leaves and Grass	1.8%	53,140	0.0%	0	15.3%	30,876	0.0%	0	2.4%	84,016
Prunings and Trimmings	0.4%	10,440	1.1%	3,512	0.0%	0	0.0%	0	0.4%	13,952
Branches and Stumps	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Manures	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Textiles	0.7%	20,721	0.0%	0	0.2%	505	0.0%	0	0.6%	21,226
Carpet	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Organic	1.2%	34,524	0.5%	1,685	0.0%	0	0.0%	0	1.0%	36,209
Inerts and Other	1.3%	38,294	0.1%	318	0.0%	0	0.0%	0	1.0%	38,612
Concrete	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Asphalt Paving	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Asphalt Roofing	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Dimensional Lumber	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Engineered Wood	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Clean Pallets & Crates	0.8%	21,613	0.0%	0	0.0%	0	0.0%	0	0.6%	21,613
Other Wood Waste	0.4%	12,652	0.0%	0	0.0%	0	0.0%	0	0.4%	12,652
Gypsum Board	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Rock, Soil and Fines	0.0%	1,118	0.0%	0	0.0%	0	0.0%	0	0.0%	1,118
Remainder/Composite Inerts and Other	0.0%	912	0.1%	319	0.0%	0	0.0%	0	0.0%	1,230
Household Hazardous Waste	0.0%	441	0.0%	0	0.0%	0	0.0%	0	0.0%	441
Paint	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Vehicle and Equipment Fluids	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Batteries	0.0%	59	0.0%	0	0.0%	0	0.0%	0	0.0%	59
Remainder/Composite Household Hazardous	0.0%	382	0.0%	0	0.0%	0	0.0%	0	0.0%	382
Special Waste	0.8%	18,495	0.0%	0	0.0%	0	0.0%	0	0.6%	18,495
Ash	0.5%	18,495	0.0%	0	0.0%	0	0.0%	0	0.5%	18,495
Treated Medical Waste	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Bulky Items	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Tires	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Remainder/Composite Special Waste	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Mixed Residue	0.1%	4,147	0.0%	0	0.0%	0	0.0%	0	0.1%	4,147
Totals	100.0%	2,876,863	100.0%	318,231	100.0%	202,428	100.0%	89,187	100.0%	3,484,479
Streams Sampled		51		21		6		18		88
TREPY		2.40		0.25		0.17		0.08		2.82

Restaurant Table (detail)

Table 56. Composition Summary: Restaurants

Material	Disposed		Curbside Recycle		Curbside Organic		Other Diversion		Total Generation	
	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons	Est. %	Est. Tons
Paper	26.8%	748,481	88.1%	215,260	2.8%	6,862	20.4%	20,228	28.3%	887,811
Uncoated Corrugated Cardboard	2.0%	56,636	61.3%	193,718	1.0%	2,074	19.5%	19,353	7.8%	271,780
Paper Bags	0.3%	8,983	0.3%	1,006	0.0%	0	0.0%	0	0.3%	9,989
Newspaper	2.6%	76,093	0.3%	884	0.4%	750	0.4%	410	2.2%	78,136
White Ledger Paper	0.7%	19,631	0.4%	1,145	0.0%	0	0.1%	101	0.6%	20,877
Other Office Paper	0.3%	9,087	0.6%	1,872	0.0%	0	0.0%	0	0.3%	10,959
Magazines and Catalogs	0.2%	6,468	0.4%	1,183	0.0%	0	0.0%	0	0.2%	7,652
Phone Books and Directories	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Miscellaneous Paper - Compostable	0.6%	16,158	1.5%	4,834	0.9%	1,897	0.0%	0	0.7%	22,890
Other Miscellaneous Paper - Other	2.1%	59,722	1.8%	5,808	0.0%	0	0.4%	365	1.9%	65,895
Remainder/Composite Paper - Compostable	12.2%	360,340	0.9%	2,870	0.3%	568	0.0%	0	10.1%	353,679
Remainder/Composite Paper - Other	5.0%	143,463	0.6%	1,929	0.3%	563	0.0%	0	4.2%	145,954
Glass	2.7%	78,068	12.0%	37,882	8.8%	13,888	64.6%	64,176	6.3%	186,082
Clear Glass Bottles and Containers	1.6%	45,721	5.2%	16,328	2.5%	5,019	5.9%	5,875	2.1%	72,943
Green Glass Bottles and Containers	0.6%	14,312	5.4%	17,121	3.6%	7,325	13.4%	13,239	1.5%	51,997
Brown Glass Bottles and Containers	0.5%	13,681	1.3%	4,081	0.8%	1,522	35.4%	35,061	1.6%	54,345
Other Glass Colored Bottles and Containers	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Flat Glass	0.0%	59	0.0%	0	0.0%	0	0.0%	0	0.0%	59
Remainder/Composite Glass	0.2%	5,286	0.1%	452	0.0%	0	0.0%	0	0.2%	5,738
Metal	2.1%	81,208	2.8%	8,738	0.4%	717	4.0%	3,888	2.1%	74,848
Tin/Steel Cans	1.1%	31,374	2.4%	7,616	0.2%	347	1.4%	1,418	1.2%	40,755
Major Appliances	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Used Oil Filters	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Other Ferrous	0.4%	12,115	0.0%	0	0.0%	55	0.1%	77	0.4%	12,248
Aluminum Cans	0.1%	4,157	0.2%	748	0.0%	61	2.5%	2,491	0.2%	7,456
Other Non-Ferrous	0.2%	5,191	0.1%	260	0.1%	254	0.0%	0	0.2%	5,704
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Electronics	0.0%	0	0.0%	134	0.0%	0	0.1%	68	0.0%	200
Brown Goods	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Computer-related Electronics	0.0%	0	0.0%	0	0.0%	0	0.1%	66	0.0%	66
Other Small Consumer Electronics	0.0%	0	0.0%	134	0.0%	0	0.0%	0	0.0%	134
Video Display Devices	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Plastic	12.2%	360,384	8.8%	80,807	1.2%	2,462	0.2%	166	11.0%	383,808
PETE Plastic Containers	0.6%	17,174	2.6%	8,307	0.2%	436	0.1%	86	0.7%	26,004
HDPE Plastic Containers	0.6%	17,639	2.5%	7,965	0.0%	0	0.0%	27	0.7%	25,631
Miscellaneous Plastic Containers	0.4%	10,363	0.8%	2,497	0.1%	116	0.0%	0	0.4%	12,976
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Non-Bag Commercial and Industrial Packaging Film	0.0%	936	0.1%	349	0.1%	138	0.0%	0	0.0%	1,423
Film Products	0.0%	0	0.0%	92	0.0%	0	0.0%	0	0.0%	92

Restaurant Table (focused detail)

Material	Disposed	
	Est. %	Est. Tons
Paper	25.9%	746,481
Uncoated Corrugated Cardboard	2.0%	56,636
Paper Bags	0.3%	8,983
Newspaper	2.6%	76,093
White Ledger Paper	0.7%	19,631
Other Office Paper	0.3%	9,087
Magazines and Catalogs	0.2%	6,468
Phone Books and Directories	0.0%	0
Other Miscellaneous Paper - Compostable	0.6%	16,158
Other Miscellaneous Paper - Other	2.1%	59,722
Remainder/Composite Paper - Compostable	12.2%	350,240
Remainder/Composite Paper - Other	5.0%	143,463

Restaurant Table (focused detail)

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Remainder/Composite Paper - Compostable	12.2%	350,240
Remainder/Composite Paper - Other	5.0%	143,463

Tons Per Employee per Year (TPEPY)

**Table 176. Generation Rate Summary by Weight, by Group (TPEPY)
Calculated with Total Employees Instead of Full Time Employees**

Group Number and Name	Tons per Employee per Year					Diversion Rate
	Disposed	Curbside Recycle	Curbside Organics	Other Diversion	Generation	
Overall Commercial Sector	0.93	0.12	0.10	0.34	1.48	38%
1 Arts, Entertainment, & Recreation	1.94	0.12	0.02	0.23	2.30	16%
2 Durable Wholesale & Trucking	0.57	0.16	0.00	2.17	2.91	80%
3 Education	0.38	0.04	0.01	0.02	0.45	15%
4 Hotels & Lodging	1.40	0.19	0.01	0.16	1.76	20%
5 Manufacturing - Electronic Equipment	0.31	0.07	0.00	0.36	0.75	58%
6 Manufacturing - Food & Nondurable Wholesale	1.23	0.05	0.01	0.50	1.79	31%
7 Manufacturing - All Other	0.44	0.10	0.00	0.93	1.47	70%
8 Medical & Health	0.57	0.04	0.00	0.01	0.63	9%
9 Public Administration	0.30	0.04	0.00	0.02	0.37	17%
10 Restaurants	1.57	0.18	0.12	0.06	1.92	18%

Tons Per Employee per Year (TPEPY)

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1 Arts, Entertainment, & Recreation	1.94	0.12	0.02	0.23	2.30	16%
2 Durable Wholesale & Trucking	0.57	0.16	0.00	2.17	2.91	80%
3 Education	0.38	0.04	0.01	0.02	0.45	15%
4 Hotels & Lodging	1.40	0.19	0.01	0.16	1.76	20%
5 Manufacturing - Electronic Equipment	0.31	0.07	0.00	0.36	0.75	58%
6 Manufacturing - Food & Nondurable Wholesale	1.23	0.05	0.01	0.50	1.79	31%
7 Manufacturing - All Other	0.44	0.10	0.00	0.93	1.47	70%
8 Medical & Health	0.57	0.04	0.00	0.01	0.63	9%
9 Public Administration	0.30	0.04	0.00	0.02	0.37	17%
10 Restaurants	1.57	0.18	0.12	0.06	1.92	18%

Employment Data by Business Groups

Incorporated City	Group Number	Annual Average
Alameda	Arts, Entertainment, & Recreation	935
Alameda	Durable Wholesale & Trucking	388
Alameda	Education	2,421
Alameda	Hotels & Lodging	118
Alameda	Manufacturing - Electronic Equipment	773
Alameda	Manufacturing - Food & Nondurable Wholesale	697
Alameda	Manufacturing - All Other	1,096
Alameda	Medical & Health	1,315
Alameda	Public Administration	1,025
Alameda	Restaurants	2,854
Alameda	Retail Trade - Food & Beverage Stores	698
Alameda	Retail Trade - All Other	1,398
Alameda	Services - Management, Administrative, Support, & Social	4,463
Alameda	Services - Professional, Technical, & Financial	3,193
Alameda	Services - Repair & Personal	548
Alameda	Not Elsewhere Classified	402
Alameda Total		22,322

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Incorporated City	Group Number	Annual Average
Alameda	Arts, Entertainment, & Recreation	935
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Alameda	Education	2,421
Alameda	Hotels & Lodging	118
Alameda	Manufacturing - Electronic Equipment	773
Alameda	Manufacturing - Food & Nondurable Wholesale	697
Alameda	Manufacturing - All Other	1,096
Alameda	Medical & Health	1,315
Alameda	Public Administration	1,025
Alameda	Restaurants	2,854
Alameda	Retail Trade - Food & Beverage Stores	698
Alameda	Retail Trade - All Other	1,398
Alameda	Services - Management, Administrative, Support, & Social	4,463
Alameda	Services - Professional, Technical, & Financial	3,193
Alameda	Services - Repair & Personal	548
Alameda	Not Elsewhere Classified	402
Alameda Total		22,322

Combining Statewide Average Waste Characterization Data With Local Employment Data

- Restaurants on average dispose **1.57** tons per employee per year (TPEPY)
- The City of Alameda has **2,854** employees working in restaurants (EDD 2014 employment data)
- $1.57 \text{ TPEPY} \times 2,854 \text{ employees} = 4,481 \text{ tons}$ estimated disposed from restaurants in Alameda
- Cardboard is **2.0%** of waste disposed by restaurants
- $4,481 \text{ tons} \times 2.0\% \text{ cardboard} = 90 \text{ tons}$ cardboard estimated disposed from restaurants in Alameda per year



Online Database Walk-Through

Where to find CalRecycle's new,
exciting Waste Characterization Tool:

<https://www2.calrecycle.ca.gov/WasteCharacterization/>

Finding the Waste Study Reports



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- Decisions & Public Participation
- Videos
- Laws & Regulations
- Data Central
- Facility Information Toolbox (FacT)

Resources

- Grant, Payment, & Loan Programs
- Forms
- Publications
- Listservs
- Employment
- Contracts



Where Do I Recycle...



[Beverage Containers](#)



[Electronic Waste](#)

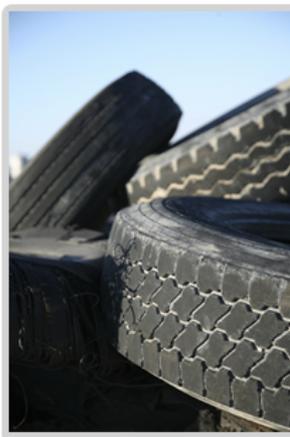


[Motor Oil](#)



[More recycling info](#) | [Public](#)

[Recycling Facility Map](#)



In the News

- [In new California climate initiative, bill will target key pollutants](#)
- [Disaster officials brace for havoc from historic El Niño](#)
- [CalRecycle Releases Green Gift Guide for Holiday Shoppers](#)

[CalRecycle News Releases](#)



In Focus



Waste Characterization Reports

CalRecycle has recently completed two major waste characterization studies: a [Disposal-Facility-Based Study](#), which analyzes the material disposed in the state's waste stream; and a [Commercial Generator Study](#), which includes data on materials disposed and recycled from the state's commercial sector. This information is critical for waste management planning-- and for reaching our recycling and greenhouse gas reduction goals.



What are you recycling? Find a recycling location fast!

Whether you've got beverage containers to return for cash, old paint taking up space in the garage, used oil from that last oil change, or another recyclable material, our new [interactive mapping tool](#) will help you find nearby recycling options that accept material from the public.



Mandatory Commercial Organics Recycling

California businesses are required to start recycling their organic waste by April 1, 2016, depending on the amount of waste they generate each week. By 2016, local jurisdictions must have an organic waste recycling program in place for those businesses. See our [Mandatory Commercial Organics Recycling](#) page and our [Organics Materials Management](#) page for more information.



2015 Wildfire Cleanups

CalRecycle crews are currently helping to coordinate cleanup and restoration work in the wake of the devastating Butte, Valley, Trinity County, and Rocky & Jerusalem wildfires. See our [2015 California Wildfires Cleanups](#) page for information and updates.



State of Recycling in California

As California pursues its statewide goal of 75 percent recycling, composting and source reduction, check out where we stand today in [recycling](#) and [disposal](#) of our discards.



California's 75 Percent Initiative

California's goal to recycle 75 percent of its solid waste is the subject of a [new report](#) that outlines key focus areas and strategies to help get us there.

Questions?

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[Home](#) » [Waste Characterization](#)

Solid Waste Characterization Home

CalRecycle conducts periodic waste characterization [studies](#) to better understand the types and amounts of materials disposed in and diverted from California's waste stream. Use the tool below to view waste characterization [estimates](#) for a selected California jurisdiction(s) based upon statewide study data combined with local employment and population data. Residential data provides disposal stream data, while commercial sector data includes both disposal and diversion streams data.

Are you new to waste characterization? [Learn more here.](#)

Use the Waste Characterization Tool for California Jurisdictions

County *

Jurisdiction(s)

- Commercial Streams By Business Group
 Commercial Streams By Material Type
 Residential Streams By Material Type

 Search Reset

Results are estimates based upon statewide data, and may not reflect local recycling programs or other factors.

Other Waste Characterization Tools

Other 2014 Waste Characterization Study Statistics

- [Disposal and Diversion Rates for Business Groups](#)
- [Residential Disposal Compositions for California Regions](#)
- [Study Regions Description and Counties Listing](#)

Site Highlights

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- [Commercial Waste Streams](#)
- [Residential Waste Streams](#)
- [Material Types / Business Groups](#)
- [Waste Studies](#)
- [Tool Limits & Background](#)
- [Waste Characterization Guide](#)
- [Site Map](#)

Commercial Waste Streams

The numbers and types of businesses in a jurisdiction determine its commercial waste stream. Multi-family generators are treated like a business group here. Use this tool to discover:

- Which business groups dispose or recycle the most tons, and what materials make up those tons.
- What is the commercial sector's overall waste composition for disposal and diversion streams.
- Detailed composition estimates for each of the 16 business groups.

California jurisdictions can use this information as a planning tool help meet state mandates to reduce waste.

Use the Waste Characterization Tool for California Jurisdictions

County

Jurisdiction(s)

- Sacramento (Countywide)
- Sacramento County (Unincorporated)
- Citrus Heights
- Elk Grove
- Folsom
- Galt
- Isleton

- Commercial Streams By Business Group
- Commercial Streams By Material Type
- Residential Streams By Material Type

Results are **estimates** based upon statewide data.

Other Waste Characterization Tools

Other 2014 Waste Characterization Study Statistics

- [Disposal and Diversion Rates for Business Groups](#)
- [Residential Disposal Compositions for California Regions](#)
- [Study Regions Description and Counties Listing](#)

[Tool Limits & Background](#)

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Commercial Generators

Commercial waste compositions and generation rates are statewide averages developed from sampling at 50 individual businesses, scattered throughout the state, for each business group. Over 800 individual businesses in over 200 jurisdictions participated in the study. A jurisdiction's estimates are based on

Use the Waste Characterization Tool for California Jurisdictions

County

Sacramento



Jurisdiction(s)

|

- Commercial Streams By Business Group
- Commercial Streams By Material Type
- Residential Streams By Material Type

Citrus Heights

Elk Grove

Folsom

Galt

Isleton

Rancho Cordova

Sacramento

Results are **estimates** based upon statewide data.

Other Waste Characterization Tools

Other 2014 Waste Characterization Study Statistics

- [Disposal and Diversion Rates for Business Groups](#)
- [Residential Disposal Compositions for California Regions](#)
- [Study Regions Description and Counties Listing](#)

[Tool Limits & Background](#)

[Waste Characterization Guide](#)

[Site Map](#)

Commercial Waste Streams

The numbers and types of businesses in a jurisdiction determine its commercial waste stream. Multi-family generators are treated like a business group here. Use this tool to discover:

- Which business groups dispose or recycle the most tons, and what materials make up those tons.
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Commercial Generators

Commercial waste compositions and generation rates are statewide averages developed from sampling at 50 individual businesses, scattered throughout the state, for each business group. Over 800 individual businesses in over 200 jurisdictions participated in the study. A jurisdiction's estimates are based on

Commercial Waste Stream by Business Group

This page displays estimates of the tons of materials in the disposal and diversion streams for each business group in the selected jurisdiction(s). View data by all materials summed or by an individual material. Tons in the first 4 streams add across rows to give Total Generation. Percents show the proportion each group contributes to each stream, and they add down the columns to give 100%. For example, restaurants in a city may dispose 5,000 tons of food which is 20 percent of all food waste disposed by the commercial sector of the city. Select a *Details* button to view the complete composition profile for that group, or view data by [all material types](#) summed together. You can also view [residential composition](#) for the disposed stream.

County
 Sacramento
Jurisdiction(s)
 Sacramento
Material Type
 --All Material Types--

 Results are **estimates** based upon statewide data, and may not reflect local recycling programs or other factors.

Site Highlights

- [Waste Characterization Tools](#)
- [Commercial Waste Streams](#)
- [Residential Waste Streams](#)
- [Material Types](#)
- [Business Groups](#)
- [Tool Limits & Background](#)
- [Waste Characterization Guide](#)
- [Site Map](#)

	Business Group	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons ▼	%
<input type="button" value="Details"/>	Services - Professional, Technical, & Financial	43,438	18.5%	8,013	25.4%	2,090	9.2%	1,063	1.9%	54,603	15.8%
<input type="button" value="Details"/>	Services - Management, Administrative, Support, & Social	20,586	8.7%	3,069	9.7%	16,323	71.5%	484	0.9%	40,462	11.7%
<input type="button" value="Details"/>	Multifamily	31,475	13.4%	5,582	17.7%	155	0.7%	0	0.0%	37,211	10.8%
<input type="button" value="Details"/>	Restaurants	28,113	11.9%	3,197	10.2%	2,070	9.1%	995	1.8%	34,374	10.0%
<input type="button" value="Details"/>	Public Administration	28,465	12.1%	3,958	12.6%	429	1.9%	1,434	2.6%	34,286	9.9%
<input type="button" value="Details"/>	Retail Trade - All Other	21,908	9.3%	1,038	3.3%	0	0.0%	1,734	3.1%	24,680	7.2%

	Business Group	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons ▼	%
→ Details	Services - Professional, Technical, & Financial	43,438	18.5%	8,013	25.4%	2,090	9.2%	1,063	1.9%	54,603	15.8%
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→ Details	Retail Trade - All Other	21,908	9.3%	1,038	3.3%	0	0.0%	1,734	3.1%	24,680	7.2%
→ Details	Retail Trade - Food & Beverage Stores	4,251	1.8%	502	1.6%	446	2.0%	17,799	32.2%	22,998	6.7%
→ Details	Durable Wholesale & Trucking	4,305	1.8%	1,237	3.9%	0	0.0%	16,367	29.6%	21,910	6.3%
→ Details	Medical & Health	17,495	7.4%	1,370	4.4%	140	0.6%	203	0.4%	19,208	5.6%
→ Details	Arts, Entertainment, & Recreation	8,877	3.8%	532	1.7%	84	0.4%	1,032	1.9%	10,525	3.1%
→ Details	Not Elsewhere Classified	4,266	1.8%	412	1.3%	72	0.3%	5,312	9.6%	10,062	2.9%
→ Details	Manufacturing - Food & Nondurable Wholesale	5,951	2.5%	220	0.7%	56	0.2%	2,406	4.3%	8,633	2.5%
→ Details	Manufacturing - All Other	2,330	1.0%	553	1.8%	0	0.0%	4,958	9.0%	7,841	2.3%
→ Details	Education	6,516	2.8%	729	2.3%	113	0.5%	280	0.5%	7,638	2.2%
→ Details	Services - Repair & Personal	3,292	1.4%	506	1.6%	820	3.6%	642	1.2%	5,260	1.5%
→ Details	Hotels & Lodging	4,002	1.7%	539	1.7%	36	0.2%	452	0.8%	5,030	1.5%
→ Details	Manufacturing - Electronic Equipment	144	0.1%	33	0.1%	0	0.0%	166	0.3%	343	0.1%
	Grand Totals:	235,413	100%	31,489	100%	22,834	100%	55,328	100%	345,064	100%

Commercial waste compositions and generation rates are statewide averages developed from sampling at 50 individual businesses, scattered throughout the state, for each business group. A jurisdiction's estimates are based on these data and not on sampling at individual businesses in that jurisdiction.

	Business Group	Disposed Tons	%	Curbside Recycle Tons ▼	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons	%
→ Details	Services - Professional, Technical, & Financial	43,438	18.5%	8,013	25.4%	2,090	9.2%	1,063	1.9%	54,603	15.8%
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→ Details	Restaurants	28,113	11.9%	3,197	10.2%	2,070	9.1%	995	1.8%	34,374	10.0%
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	Grand Totals:	235,413	100%	31,489	100%	22,834	100%	55,328	100%	345,064	100%

Sacramento



Sacramento x

Material Type

- All Material Types--
- Paper - Uncoated Corrugated Cardboard
- Paper - Paper Bags
- Paper - Newspaper
- Paper - White Ledger Paper
- Paper - Other Office Paper
- Paper - Magazines and Catalogs
- Paper - Phone Books and Directories
- Paper - Other Miscellaneous Paper - Compostable
- Paper - Other Miscellaneous Paper - Other
- Paper - Remainder/Composite Paper - Compostable
- Paper - Remainder/Composite Paper - Other
- Glass - Clear Glass Bottles and Containers
- Glass - Green Glass Bottles and Containers
- Glass - Brown Glass Bottles and Containers
- Glass - Other Glass Colored Bottles and Containers
- Glass - Flat Glass
- Glass - Remainder/Composite Glass
- Metal - Tin/Steel Cans
- Metal - Major Appliances
- Metal - Used Oil Filters
- Metal - Other Ferrous
- Metal - Aluminum Cans
- Metal - Other Non-Ferrous
- Metal - Remainder/Composite Metal
- Electronics - Brown Goods
- Electronics - Computer-related Electronics
- Electronics - Other Small Consumer Electronics
- Electronics - Video Display Devices
- Plastic - PETE Plastic Containers

Search

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...ycling programs or other factors.

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- [Site Map](#)

	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons	%			
	8,013	25.4%	2,090	9.2%	1,063	1.9%	54,603	15.8%			
	5,582	17.7%	155	0.7%	0	0.0%	37,211	10.8%			
	3,958	12.6%	429	1.9%	1,434	2.6%	34,286	9.9%			
	3,197	10.2%	2,070	9.1%	995	1.8%	34,374	10.0%			
	3,069	9.7%	16,323	71.5%	484	0.9%	40,462	11.7%			
	1,370	4.4%	140	0.6%	203	0.4%	19,208	5.6%			
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→ Details	Manufacturing - All Other	2,330	1.0%	553	1.8%	0	0.0%	4,958	9.0%	7,841	2.3%

County *
 Sacramento ▼

Jurisdiction(s)
 Sacramento ×

Material Type
 Organics - Food ▼

🔍 Search 🔄 Reset

Results are **estimates** based upon statewide data, and may not reflect local recycling programs or other factors.

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📄 Export to Excel

	Business Group	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons ▼	%
➔ Details	Restaurants	14,281	25.8%	179	23.7%	1,515	49.5%	206	2.3%	16,181	23.8%
➔ Details	Multifamily	7,797	14.1%	389	51.6%	131	4.3%	0	0.0%	8,317	12.2%
➔ Details	Retail Trade - Food & Beverage Stores	1,765	3.2%	32	4.2%	273	8.9%	4,937	55.7%	7,006	10.3%
➔ Details	Services - Management, Administrative, Support, & Social	5,117	9.2%	54	7.1%	3	0.1%	26	0.3%	5,199	7.6%
➔ Details	Public Administration	4,889	8.8%	3	0.4%	102	3.3%	5	0.1%	4,999	7.3%
➔ Details	Retail Trade - All Other	3,938	7.1%	8	1.1%	0	0.0%	27	0.3%	3,973	5.8%
➔ Details	Manufacturing - Food & Nondurable Wholesale	2,252	4.1%	2	0.2%	50	1.6%	1,639	18.5%	3,942	5.8%
➔ Details	Medical & Health	3,784	6.8%	17	2.2%	97	3.2%	0	0.0%	3,898	5.7%
➔ Details	Services - Professional, Technical, & Financial	3,593	6.5%	6	0.8%	2	0.1%	54	0.6%	3,656	5.4%
➔ Details	Arts, Entertainment, & Recreation	2,981	5.4%	9	1.2%	0	0.0%	244	2.7%	3,234	4.7%
➔ Details	Not Elsewhere Classified	682	1.2%	21	2.8%	1	0.0%	1,654	18.7%	2,359	3.5%
➔ Details	Education	2,201	4.0%	3	0.4%	86	2.8%	6	0.1%	2,295	3.4%
➔ Details	Hotels & Lodging	1,286	2.3%	28	3.7%	19	0.6%	61	0.7%	1,395	2.0%
➔ Details	Services - Repair & Personal	245	0.4%	1	0.1%	779	25.5%	0	0.0%	1,025	1.5%

Business Group Waste Stream by Material Type

This page displays composition by material type and stream for a specified Business Group and California jurisdiction(s). View data by all Business Groups summed or by an individual group. Tons in the first 4 streams add across rows to give Total Generation. Percents show the proportion each material contributes to each stream, and they add down the columns to give 100%. For example, the group Retail Trade-All Other in a city may recycle 300 tons of cardboard which is 30 percent of the recycling stream for that group. Data includes contamination, such as food in the recycling stream. Select a *Summary* button to view a material's distribution among business groups for all streams, or view waste stream data for [all business groups](#). You can also view [residential composition](#) for the disposed stream.

County

Sacramento

Jurisdiction(s)

Sacramento

Business Group

Restaurants

Search

Reset

Results are estimates based upon statewide data, and may not reflect local recycling programs or other factors.

Site Highlights

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[Residential Waste Streams](#)

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Export to Excel - Collapse Groupings Ungroup Materials

	Material Type	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons	%
<ul style="list-style-type: none"> Paper 	<ul style="list-style-type: none"> Summary Uncoated Corrugated Cardboard Summary Paper Bags Summary Newspaper Summary White Ledger Paper Summary Other Office Paper 	553	2.0%	1,958	61.3%	21	1.0%	194	19.5%	2,727	7.9%
		88	0.3%	10	0.3%	0	0.0%	0	0.0%	98	0.3%
		744	2.6%	9	0.3%	8	0.4%	4	0.4%	764	2.2%
		192	0.7%	12	0.4%	0	0.0%	1	0.1%	204	0.6%
		89	0.3%	19	0.6%	0	0.0%	0	0.0%	108	0.3%

Export to Excel Collapse Groupings Ungroup Materials												
	Material Type	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons	%	
4 Paper												
+	Summary	Uncoated Corrugated Cardboard	553	2.0%	1,958	81.3%	21	1.0%	194	19.5%	2,727	7.9%
+	Summary	Paper Bags	85	0.3%	10	0.2%	0	0.0%	0	0.0%	98	0.3%
+	Summary	Newspaper	744	2.8%	9	0.2%	8	0.4%	4	0.4%	764	2.2%
+	Summary	White Ledger Paper	192	0.7%	12	0.4%	0	0.0%	1	0.1%	204	0.6%
+	Summary	Other Office Paper	89	0.3%	19	0.8%	0	0.0%	0	0.0%	108	0.3%
+	Summary	Magazines and Catalogs	83	0.2%	12	0.4%	0	0.0%	0	0.0%	75	0.2%
+	Summary	Phone Books and Directories	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
+	Summary	Other Miscellaneous Paper - Compostable	155	0.6%	49	1.5%	19	0.9%	0	0.0%	228	0.7%
+	Summary	Other Miscellaneous Paper - Other	584	2.1%	59	1.5%	0	0.0%	4	0.4%	648	1.9%
+	Summary	Remainder/Composite Paper - Compostable	3,423	12.2%	39	0.9%	8	0.3%	0	0.0%	3,458	10.1%
+	Summary	Remainder/Composite Paper - Other	1,402	5.0%	20	0.8%	8	0.3%	0	0.0%	1,427	4.2%
		Subtotal:	7,295	25.9%	2,178	85.1%	80	2.9%	203	20.4%	9,734	28.3%
4 Glass												
+	Summary	Clear Glass Bottles and Containers	447	1.6%	165	5.2%	51	2.5%	59	5.9%	722	2.1%
+	Summary	Green Glass Bottles and Containers	140	0.5%	173	5.4%	75	3.8%	133	12.4%	521	1.5%
+	Summary	Brown Glass Bottles and Containers	134	0.5%	41	1.2%	18	0.8%	352	35.4%	542	1.6%
+	Summary	Other Glass Colored Bottles and Containers	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
+	Summary	Flat Glass	1	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%
+	Summary	Remainder/Composite Glass	52	0.2%	5	0.1%	0	0.0%	0	0.0%	58	0.2%
		Subtotal:	773	2.7%	384	12.0%	142	6.8%	543	54.8%	1,342	5.4%
4 Metal												
+	Summary	Tin/Steel Cans	307	1.1%	77	2.4%	4	0.2%	14	1.4%	401	1.2%
+	Summary	Major Appliances	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
+	Summary	Used Oil Filters	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
+	Summary	Other Ferrous	118	0.4%	0	0.0%	1	0.0%	1	0.1%	120	0.3%
+	Summary	Aluminum Cans	41	0.1%	8	0.2%	1	0.0%	25	2.5%	74	0.2%
+	Summary	Other Non-Ferrous	51	0.2%	3	0.1%	3	0.1%	0	0.0%	58	0.2%
+	Summary	Remainder/Composite Metal	82	0.3%	1	0.0%	0	0.0%	0	0.0%	83	0.2%
		Subtotal:	598	2.1%	88	2.8%	7	0.4%	40	4.0%	734	2.1%
4 Electronics												
+	Summary	Brown Goods	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
+	Summary	Computer-related Electronics	0	0.0%	0	0.0%	0	0.0%	1	0.1%	1	0.0%
+	Summary	Other Small Consumer Electronics	0	0.0%	1	0.0%	0	0.0%	0	0.0%	1	0.0%

	Material Type	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons	%
--	---------------	---------------	---	-----------------------	---	------------------------	---	----------------------	---	-----------------------	---

Paper

→ Summary	Uncoated Corrugated Cardboard	553	2.0%	1,958	61.3%	21	1.0%	194	19.5%	2,727	7.9%
→ Summary	Paper Bags	88	0.3%	10	0.3%	0	0.0%	0	0.0%	98	0.3%
→ Summary	Newspaper	744	2.6%	9	0.3%	8	0.4%	4	0.4%	764	2.2%
→ Summary	White Ledger Paper	192	0.7%	12	0.4%	0	0.0%	1	0.1%	204	0.6%
→ Summary	Other Office Paper	89	0.3%	19	0.6%	0	0.0%	0	0.0%	108	0.3%
→ Summary	Magazines and Catalogs	63	0.2%	12	0.4%	0	0.0%	0	0.0%	75	0.2%
→ Summary	Phone Books and Directories	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
→ Summary	Other Miscellaneous Paper - Compostable	158	0.6%	49	1.5%	19	0.9%	0	0.0%	226	0.7%
→ Summary	Other Miscellaneous Paper - Other	584	2.1%	59	1.8%	0	0.0%	4	0.4%	646	1.9%
→ Summary	Remainder/Composite Paper - Compostable	3,423	12.2%	29	0.9%	6	0.3%	0	0.0%	3,458	10.1%
→ Summary	Remainder/Composite Paper - Other	1,402	5.0%	20	0.6%	6	0.3%	0	0.0%	1,427	4.2%
	Subtotals:	7,295	25.9%	2,176	68.1%	60	2.9%	203	20.4%	9,734	28.3%

Glass

→ Summary	Clear Glass Bottles and Containers	447	1.6%	165	5.2%	51	2.5%	59	5.9%	722	2.1%
→ Summary	Green Glass Bottles and Containers	140	0.5%	173	5.4%	75	3.6%	133	13.4%	521	1.5%

[Export to Excel](#)[+ Expand Grouping](#)[Ungroup Materials](#)

	Material Type	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons	%
▶ Paper											
	Subtotals:	7,295	25.9%	2,176	68.1%	60	2.9%	203	20.4%	9,734	28.3%
▶ Glass											
	Subtotals:	773	2.7%	384	12.0%	142	6.8%	543	54.6%	1,842	5.4%
▶ Metal											
	Subtotals:	598	2.1%	88	2.8%	7	0.4%	40	4.0%	734	2.1%
▶ Electronics											
	Subtotals:	0	0.0%	1	0.0%	0	0.0%	1	0.1%	2	0.0%
▶ Plastic											
	Subtotals:	3,424	12.2%	312	9.8%	25	1.2%	2	0.2%	3,763	10.9%
▶ Other Organic											
	Subtotals:	15,442	54.9%	232	7.2%	1,836	88.7%	206	20.7%	17,716	51.5%
▶ Inerts and Other											
	Subtotals:	355	1.3%	3	0.1%	0	0.0%	0	0.0%	358	1.0%
▶ Household Hazardous Waste (HHW)											
	Subtotals:	4	0.0%	0	0.0%	0	0.0%	0	0.0%	4	0.0%
▶ Special Waste											
	Subtotals:	181	0.6%	0	0.0%	0	0.0%	0	0.0%	181	0.5%
▶ Mixed Residue											
	Subtotals:	41	0.1%	0	0.0%	0	0.0%	0	0.0%	41	0.1%
	Grand Totals:	28,113	100%	3,197	100%	2,070	100%	995	100%	34,374	100%

	Material Type	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons ▼	%
→ Summary	Food	14,281	50.8%	179	5.6%	1,515	73.2%	206	20.7%	16,181	47.1%
→ Summary	Remainder/Composite Paper - Compostable	3,423	12.2%	29	0.9%	6	0.3%	0	0.0%	3,458	10.1%
→ Summary	Uncoated Corrugated Cardboard	553	2.0%	1,958	61.3%	21	1.0%	194	19.5%	2,727	7.9%
→ Summary	Remainder/Composite Paper - Other	1,402	5.0%	20	0.6%	6	0.3%	0	0.0%	1,427	4.2%
→ Summary	Remainder/Composite Plastic	1,026	3.7%	17	0.5%	0	0.0%	0	0.0%	1,044	3.0%
→ Summary	Other Film - Other	919	3.3%	45	1.4%	17	0.8%	0	0.0%	980	2.9%
→ Summary	Plastic Trash Bags	920	3.3%	11	0.3%	1	0.1%	0	0.0%	932	2.7%
→ Summary	Leaves and Grass	519	1.8%	0	0.0%	316	15.3%	0	0.0%	835	2.4%
→ Summary	Newspaper	744	2.6%	9	0.3%	8	0.4%	4	0.4%	764	2.2%
→ Summary	Clear Glass Bottles and Containers	447	1.6%	165	5.2%	51	2.5%	59	5.9%	722	2.1%
→ Summary	Other Miscellaneous Paper - Other	584	2.1%	59	1.8%	0	0.0%	4	0.4%	646	1.9%
→ Summary	Brown Glass Bottles and Containers	134	0.5%	41	1.3%	16	0.8%	352	35.4%	542	1.6%
→ Summary	Green Glass Bottles and Containers	140	0.5%	173	5.4%	75	3.6%	133	13.4%	521	1.5%
→ Summary	Tin/Steel Cans	307	1.1%	77	2.4%	4	0.2%	14	1.4%	401	1.2%
→ Summary	Remainder/Composite Organic	337	1.2%	17	0.5%	0	0.0%	0	0.0%	354	1.0%
→ Summary	PETE Plastic Containers	168	0.6%	84	2.6%	4	0.2%	1	0.1%	257	0.7%

Commercial Waste Stream by Business Group

This page displays estimates of the tons of materials in the disposal and diversion streams for each business group in the selected jurisdiction(s). View data by all materials summed or by an individual material. Tons in the first 4 streams add across rows to give Total Generation. Percents show the proportion each group contributes to each stream, and they add down the columns to give 100%. For example, restaurants in a city may dispose 5,000 tons of food which is 20 percent of all food waste disposed by the commercial sector of the city. Select a *Details* button to view the complete composition profile for that group, or view data by [all material types](#) summed together. You can also view [residential composition](#) for the disposed stream.

County

Sacramento

Jurisdiction(s)

Sacramento x

Material Type

Organics - Food

Search

Reset

Results are **estimates** based upon statewide data, and may not reflect local recycling programs or other factors.

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	Business Group	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons ▼	%
Details	Restaurants	14,281	25.8%	179	23.7%	1,515	49.5%	206	2.3%	16,181	23.8%
Details	Multifamily	7,797	14.1%	389	51.6%	131	4.3%	0	0.0%	8,317	12.2%
Details	Retail Trade - Food & Beverage Stores	1,765	3.2%	32	4.2%	273	8.9%	4,937	55.7%	7,006	10.3%

Commercial Waste Stream by Business Group

This page displays estimates of the tons of materials in the disposal and diversion streams for each business group in the selected jurisdiction(s). View data by all materials summed or by an individual material. Tons in the first 4 streams add across rows to give Total Generation. Percents show the proportion each group contributes to each stream, and they add down the columns to give 100%. For example, restaurants in a city may dispose 5,000 tons of food which is 20 percent of all food waste disposed by the commercial sector of the city. Select a *Details* button to view the complete composition profile for that group, or view data by [all material types](#) summed together. You can also view [residential composition](#) for the disposed stream.

County * **Jurisdiction(s)**

Material Type

Results are **estimates** based upon statewide data, and may not reflect local recycling programs or other factors.
Warning: Some data for this selection is suppressed and affects the results. [More information...](#)

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	Business Group	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons ▼	%
Details	Durable Wholesale & Trucking	5,008	7.0%	1,439	14.4%	0	0.0%	19,039	47.5%	25,486	20.1%
Details	Multifamily	13,744	19.3%	2,437	24.5%	68	1.2%	0	0.0%	16,249	12.8%
Details	Services - Professional, Technical, & Financial	11,900	16.7%	2,195	22.0%	573	10.6%	291	0.7%	14,958	11.8%
Details	Retail Trade - Food & Beverage	2,115	3.0%	250	2.5%	222	4.1%	8,854	22.1%	11,441	9.0%

	Business Group	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons ▼	%
→ Details	Durable Wholesale & Trucking	5,008	7.0%	1,439	14.4%	0	0.0%	19,039	47.5%	25,486	20.1%
→ Details	Multifamily	13,744	19.3%	2,437	24.5%	68	1.2%	0	0.0%	16,249	12.8%
→ Details	Services - Professional, Technical, & Financial	11,900	16.7%	2,195	22.0%	573	10.6%	291	0.7%	14,958	11.8%
→ Details	Retail Trade - Food & Beverage Stores	2,115	3.0%	250	2.5%	222	4.1%	8,854	22.1%	11,441	9.0%
→ Details	Restaurants	8,563	12.0%	974	9.8%	630	11.6%	303	0.8%	10,471	8.3%
→ Details	Retail Trade - All Other	8,303	11.7%	394	3.9%	0	0.0%	657	1.6%	9,354	7.4%
→ Details	Services - Management, Administrative, Support, & Social	4,339	6.1%	647	6.5%	3,440	63.6%	102	0.3%	8,528	6.7%
→ Details	Not Elsewhere Classified	3,357	4.7%	324	3.2%	57	1.1%	4,180	10.4%	7,918	6.3%
→ Details	Manufacturing - Food & Nondurable Wholesale	5,027	7.1%	186	1.9%	48	0.9%	2,033	5.1%	7,294	5.8%
→ Details	Manufacturing - All Other	1,819	2.6%	431	4.3%	0	0.0%	3,870	9.7%	6,120	4.8%
→ Details	Medical & Health	2,846	4.0%	223	2.2%	23	0.4%	33	0.1%	3,124	2.5%
→ Details	Arts, Entertainment, & Recreation	1,854	2.6%	111	1.1%	18	0.3%	216	0.5%	2,198	1.7%
→ Details	Services - Repair & Personal	1,294	1.8%	199	2.0%	322	6.0%	252	0.6%	2,067	1.6%
→ Details	Public Administration	888	1.2%	123	1.2%	13	0.2%	45	0.1%	1,069	0.8%
→ Details	Manufacturing -Electronic Equipment	148	0.2%	34	0.3%	0	0.0%	171	0.4%	353	0.3%
→ Details	Education	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
→ Details	Hotels & Lodging	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Grand Totals:	71,204	100%	9,967	100%	5,414	100%	40,046	100%	126,630	100%

Commercial Waste Stream by Business Group

This page displays estimates of the tons of materials in the disposal and diversion streams for each business group in the selected jurisdiction(s). View data by all materials summed or by an individual material. Tons in the first 4 streams add across rows to give Total Generation. Percents show the proportion each group contributes to each stream, and they add down the columns to give 100%. For example, restaurants in a city may dispose 5,000 tons of food which is 20 percent of all food waste disposed by the commercial sector of the city. Select a *Details* button to view the complete composition profile for that group, or view data by [all material types](#) summed together. You can also view [residential composition](#) for the disposed stream.

County * Jurisdiction(s)

Yolo Yolo (Countywide) x

Material Type

--All Material Types--

🔍 Search
🔄 Reset

Results are **estimates** based upon statewide data, and may not reflect local recycling programs or other factors.

Warning: Some data for this selection is suppressed and affects the results. [More information...](#)

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📄 Export to Excel

	Business Group	Disposed Tons	%	Curbside Recycle Tons	%	Curbside Organics Tons	%	Other Diversion Tons	%	Total Generation Tons ▼	%
→ Details	Durable Wholesale & Trucking	5,008	7.0%	1,439	14.4%	0	0.0%	19,039	47.5%	25,486	20.1%
→ Details	Multifamily	13,744	19.3%	2,437	24.5%	68	1.2%	0	0.0%	16,249	12.8%
→ Details	Services - Professional, Technical, & Financial	11,900	16.7%	2,195	22.0%	573	10.6%	291	0.7%	14,958	11.8%
→ Details	Retail Trade - Food & Beverage	2,115	3.0%	250	2.5%	222	4.1%	8,854	22.1%	11,441	9.0%

Information About Suppressed Business Group Employee Count Data

Commercial waste characterization estimates are partially based upon data provided by the California Employment Development Department (EDD) on employee counts per jurisdiction. To maintain confidentiality of businesses, the data provided by EDD to CalRecycle suppresses employee counts if, in general, there are fewer than three establishments in the selected business group and jurisdiction, or if a single employer makes up more than 80 percent of the employment in that industry. There are more details on suppression [here](#).

Suppressed Business Group Data for: Yolo (Countywide)

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Local Government Name ▲	Business Group Name ▲	Business Count
Yolo (Countywide)	Education	132
Yolo (Countywide)	Hotels & Lodging	41

⏪ ◀ 1 ▶ ⏩

1 - 2 of 2 items

Residential Waste Stream by Material Type

This page displays estimated residential disposed waste composition by material type and stream for the specified California jurisdiction(s). Single family tons and multifamily tons add to give total residential tons. Percents show the proportion each material contributes to each stream, and they add down the columns to give 100%. Single family composition percents are based on regional data. Commercial composition is available by [Business Group](#) and [Material Type](#).

County

Jurisdiction(s)

Results are estimates based upon statewide data, and may not reflect local recycling programs or other factors.

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Occupied Single Family Units (< 5 units per site) 134,252	Household Population 477,312
Occupied Multi-Family Units (5+ units per site) 42,564	Region More on Regions Valley

Material Type	Single Family Tons	Single Family Composition	Multi Family Tons	Multi Family Composition (statewide)	Total Residential Tons	Total Residential Composition
▲ Paper						
Uncoated Corrugated Cardboard	2,325	2.6%	1,123	3.6%	3,448	2.8%
Paper Bags	272	0.3%	166	0.5%	438	0.4%
Newspaper	1,175	1.3%	1,461	4.6%	2,637	2.2%
White Ledger Paper	130	0.1%	166	0.5%	296	0.2%
Other Office Paper	224	0.2%	185	0.6%	409	0.3%
Magazines and Catalogs	683	0.8%	235	0.7%	919	0.8%

Material Type	Single Family Tons	Single Family Composition	Multi Family Tons	Multi Family Composition (statewide)	Total Residential Tons	Total Residential Composition
▶ Paper						
<i>Subtotals:</i>	18,020	20%	7,400	24%	25,420	21%
▶ Glass						
<i>Subtotals:</i>	2,178	2%	941	3%	3,119	3%
▶ Metal						
<i>Subtotals:</i>	2,890	3%	1,113	4%	4,003	3%
▶ Electronics						
<i>Subtotals:</i>	1,054	1%	494	2%	1,548	1%
▶ Plastic						
<i>Subtotals:</i>	11,958	13%	3,467	11%	15,425	13%
▶ Other Organic						
<i>Subtotals:</i>	42,556	47%	13,876	44%	56,432	46%
▶ Inerts and Other						
<i>Subtotals:</i>	5,731	6%	1,918	6%	7,649	6%
▶ Household Hazardous Waste (HHW)						
<i>Subtotals:</i>	418	0%	26	0%	444	0%
▶ Special Waste						
<i>Subtotals:</i>	529	1%	1,154	4%	1,683	1%
▶ Mixed Residue						
<i>Subtotals:</i>	4,908	5%	1,085	3%	5,993	5%
<i>Grand Totals:</i>	90,242	100%	31,475	100%	121,716	100%

Residential estimates are based on statewide average data for multi-family and regional average data for single-family, not on sampling at residences in any individual jurisdiction.