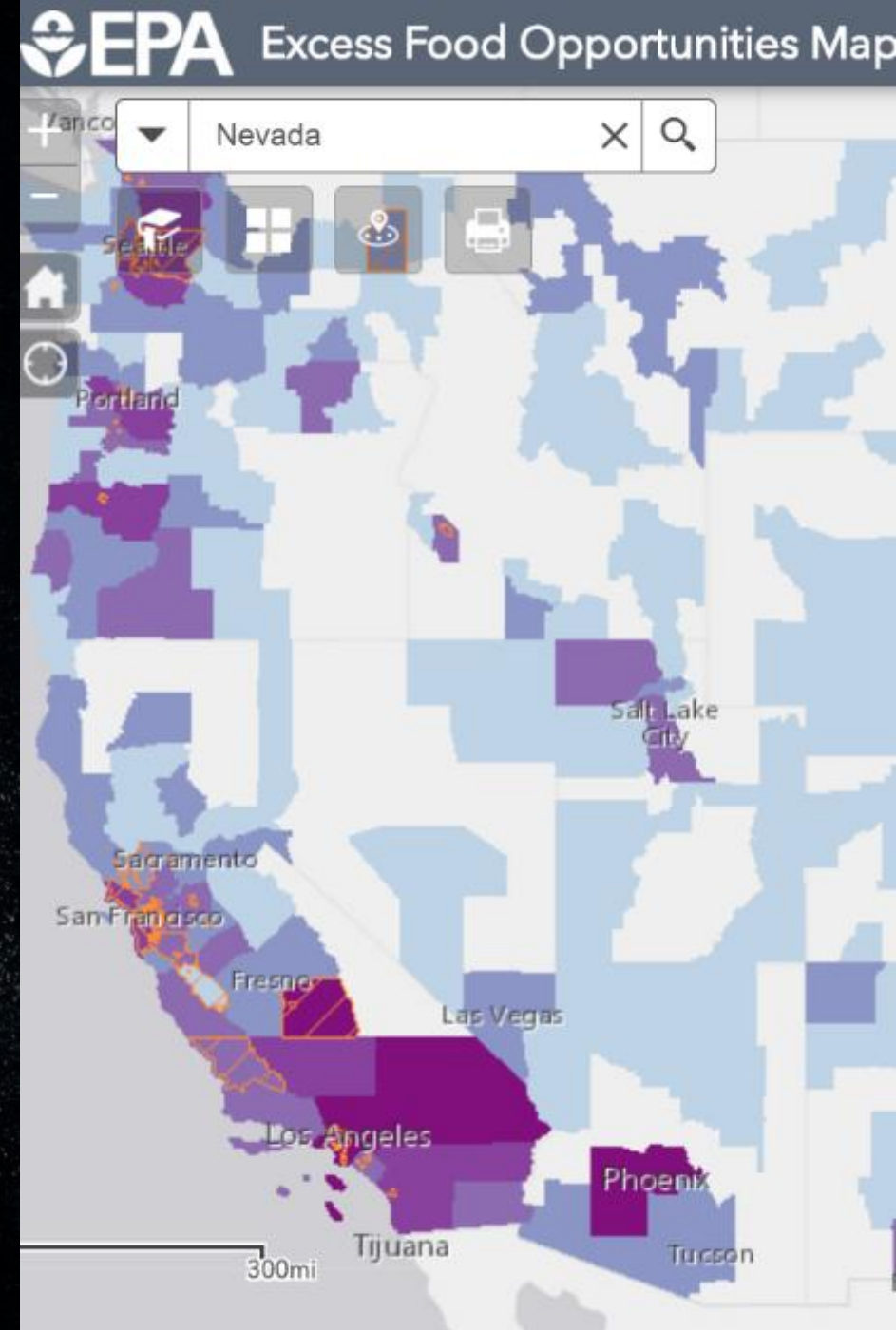


# Using EPA's Excess Food Opportunities Map as a starting point for estimating food waste generated and managed in Nevada

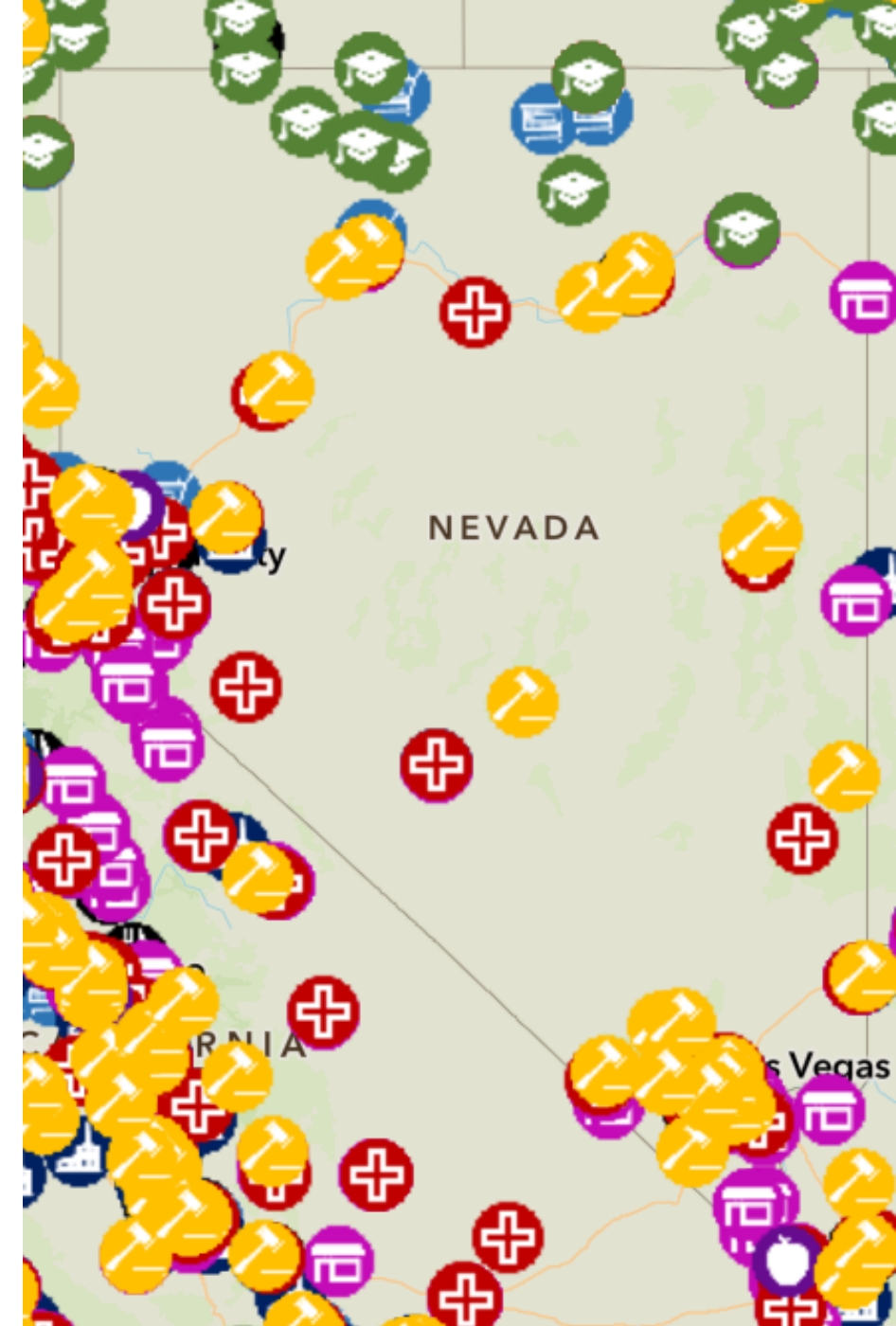
Presentation to Food for People Not Landfills Subcommittee

November 9, 2020



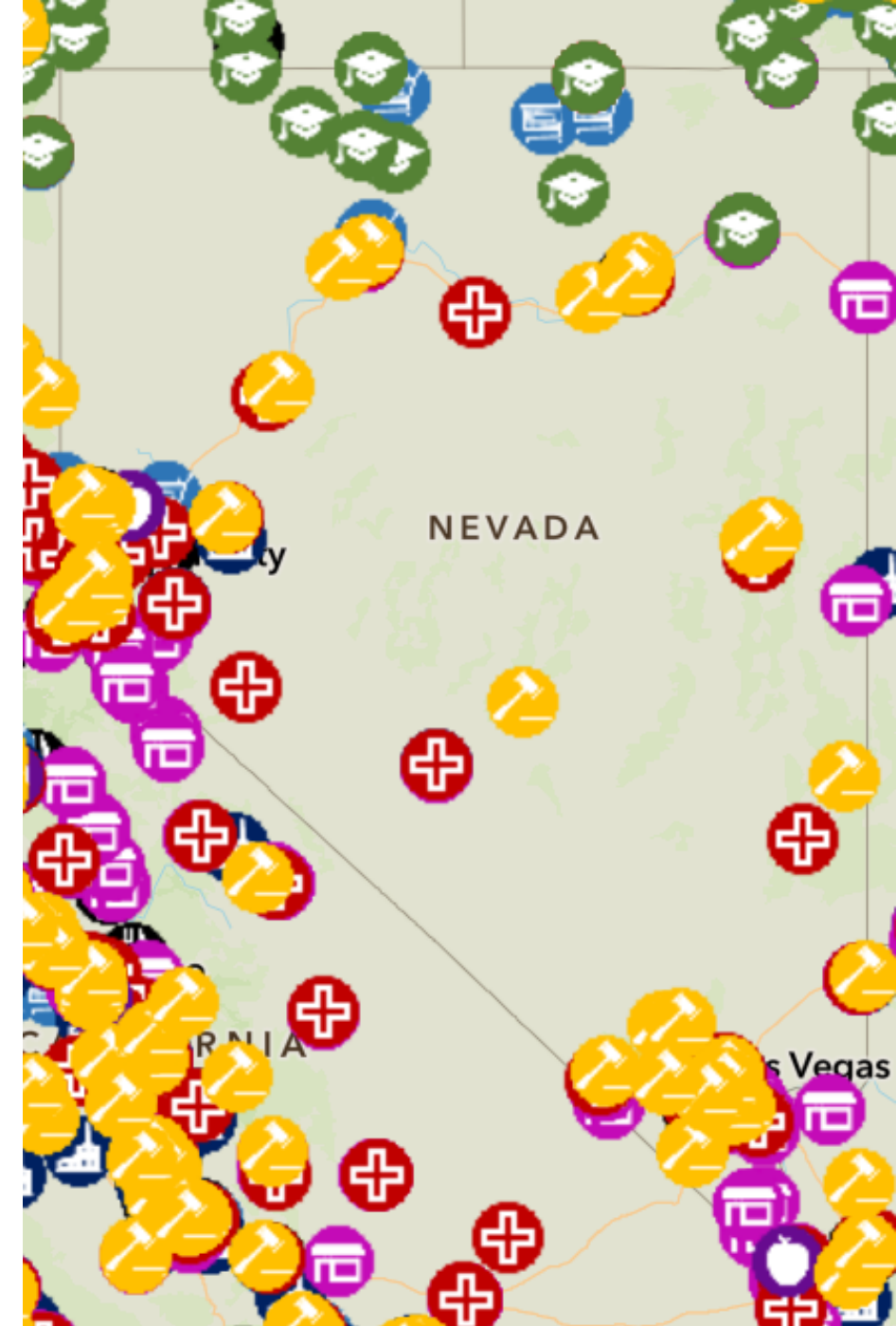
# EPA's Excess Food Opportunities Map

- Informs waste management and food recovery at the local level, and identify potential sources of organic feedstocks, infrastructure gaps, and alternatives to landfill
- Supports diversion of excess food from landfills through the identification and display of establishment-specific information about potential generators and recipients of excess food
- “Excess Food” refers to food – whether processed, semi-processed or raw – that is intended for human consumption but was removed from the supply chain



# EPA's Excess Food Opportunities Map

- Includes potential excess food generators and low/high estimates for their amount of excess food
  - food manufacturing and processing facilities
  - food wholesale and retail
  - restaurants and food services
  - hospitality industry
  - healthcare facilities
  - educational institutions
  - correctional facilities
  - food banks
- Includes potential excess food recipients:
  - anaerobic digestion facilities
  - composting facilities
  - food banks





# Excess Food **Generators**

# Food Manufacturing and Processing Facilities



397 listed for Nevada

**Estimated excess food generated:** Low-end estimate -- **9,539 tons**      High-end estimate – **30,589 tons**

*\*Doesn't include 39 facilities for which we had insufficient data to develop estimates*

**Data Source:** Represents food manufacturers and processors associated with 46 NAICS codes. Establishment-specific information except the annual excess food estimate was licensed to the EPA from Hoovers, Inc. in 2018

The generation factors from three, relevant, original research studies were used to calculate excess food generation when multiplied by each facilities' annual sales revenue.

SOURCE	YEAR	GENERATION FACTOR	UNIT	NAICS_CODE	ADDRESS	CITY	COUNTY	STATE	ZIP_CODE	EXCESS FOOD TON YEAR LOWEST	EXCESS FOOD TON YEAR HIGHEST
FWRA	2016	0.17	lbs/revenue/year								
BSR	2014	0.053	lbs/revenue/year								
BSR	2013	0.062	lbs/revenue/year								
				311340	5428 Green Horn St	Las Vegas	Clark County	NV	89118	0.10	0.40
				312111	7024 Bluebird Wing St	North Las Vegas	Clark County	NV	89084	0.60	2.00
				311611	2531 Sutro St	Reno	Washoe County	NV	89512	0.70	2.40
				311340	3330 W Hacienda Ave Ste 409	Las Vegas	Clark County	NV	89118	0.70	2.10
				311351	10120 S Eastern Ave	Henderson	Clark County	NV	89052	0.80	2.50
				112930	129 Lower Colony Rd	Wellington	Lyon County	NV	89444	0.80	2.40
				311811	377 Cascade Mist Ave	Las Vegas	Clark County	NV	89123	0.80	2.60
				311821	923 Appaloosa Hills Ave	North Las Vegas	Clark County	NV	89081	0.90	3.00
				311811	155 Damonte Ranch Pkwy	Reno	Washoe County	NV	89521	0.90	2.80
				311811	2400 S Rancho Dr	Las Vegas	Clark County	NV	89102	0.90	2.80
				311811	130 Michaelsen Dr	Fernley	Lyon County	NV	89408	0.90	2.80
				311811	1611 Lefty Garcia Way	Henderson	Clark County	NV	89002	0.90	2.80
				311811	1798 Anelli Ct	Henderson	Clark County	NV	89012	0.90	2.70
				311811	2136 Tyler Dr	Henderson	Clark County	NV	89074	0.90	2.80
				311811	2591 Anthem Village Dr	Henderson	Clark County	NV	89052	0.90	2.80
				311811	2725 E 9th St	Silver Springs	Lyon County	NV	89430	0.90	2.80

# Food Wholesale and Retail



1,453 listed for Nevada

**Estimated excess food generated:** Low-end estimate – **4,615 tons**      High-end estimate – **198,662 tons**

*\*Doesn't include 1 facility for which we had insufficient data to develop an estimate*

**Data Source:** Represents food wholesalers, distributors, and supermarket and grocery stores associated with 17 NAICS codes. Establishment-specific information except the annual excess food estimate was licensed to the EPA from Hoovers, Inc. in 2018

Calculations used to estimate annual excess food weight are described in EPA's 2019 publication: Technical Methodology for the EPA Excess Food Opportunities Map

NAME	NAICS_CODE_DESCRIPTION	NAICS_CODE	ADDRESS	CITY	COUNTY	STATE	ZIP_CODE	EXCESS FOOD TON YEAR LOWEST	EXCESS FOOD TON YEAR HIGHEST	UNIQUEID
Ds Services of America, Inc.	All Other Specialty Food Stores	445299	4225 W Desert Inn Rd	Las Vegas	Clark County	NV	89102	0.00	117.00	18FWD111769
Ds Services of America, Inc.	All Other Specialty Food Stores	445299	1312 Capital Blvd Ste 104	Reno	Washoe County	NV	89502	0.00	117.00	18FWD157817
Dutch Brothers Coffee LLC	All Other Specialty Food Stores	445299	1449 S Carson St	Carson City	Carson City	NV	89701	0.00	117.00	18FWD152428
Edible Arrangements	All Other Specialty Food Stores	445299	7260 W Lake Mead Blvd	Las Vegas	Clark County	NV	89128	0.00	117.00	18FWD112951
Farmer Bros. Co.	All Other Specialty Food Stores	445299	460 S A St	Elko	Elko County	NV	89801	0.00	117.00	18FWD201678
Rockview Dairies, Inc.	All Other Specialty Food Stores	445299	G Ranch And Amp Mecca Rd	Amargosa Valley	Nye County	NV	89020	0.00	464.00	18FWD117862
US Foods Culinary Equipment & Supplies LLC	All Other Specialty Food Stores	445299	12663 Old Virginia Rd	Reno	Washoe County	NV	89521	0.00	117.00	18FWD156593
AUNTIE ANNE'S	Baked Goods Stores	445291	5000 #1 Meadowood Mall	Reno	NULL	NV	89502	0.00	117.00	18FWD1488
Bimbo Bakeries Usa, Inc	Baked Goods Stores	445291	300 W Bonanza Rd	Las Vegas	Clark County	NV	89106	0.00	117.00	18FWD112684
Bimbo Bakeries Usa, Inc	Baked Goods Stores	445291	1155 S Rock Blvd Ste 420	Reno	Washoe County	NV	89502	0.00	117.00	18FWD157726
CINNABON	Baked Goods Stores	445291	18 Highway 50	Stateline	NULL	NV	89449	0.00	117.00	18FWD2134
CINNABON	Baked Goods Stores	445291	3850 Las Vegas Blvd S	Las Vegas	Clark County	NV	89109	0.00	117.00	18FWD111072
Cinnabon, Inc.	Baked Goods Stores	445291	3480 S Maryland Pkwy Ste 107	Las Vegas	Clark County	NV	89169	0.00	117.00	18FWD111706
DUNKIN' DONUTS	Baked Goods Stores	445291	4455 Paradise Rd	Las Vegas	Clark County	NV	89169	0.00	117.00	18FWD111297
Krispy Kreme Doughnut Corp	Baked Goods Stores	445291	3850 Las Vegas Blvd S Ste 2	Las Vegas	Clark County	NV	89109	0.00	117.00	18FWD111074

# Restaurants and Food Service



5,425 listed for Nevada

**Estimated excess food generated:** Low-end estimate – **42,566 tons** High-end estimate – **114,186 tons**

*\*Doesn't include 113 facilities for which we had insufficient data to develop estimates*

**Data Source:** Represents restaurants and caterers represented by 6 NAICS codes. Establishment-specific information except the annual excess food estimate was licensed to the EPA from Hoovers, Inc. in 2018

The generation factors from four research studies were used to estimate excess food generation for full-service and limited-service establishments.

SOURCE	YEAR	GENERATION FACTOR	UNITS	ESTABLISHMENT TYPE
CCG	2006	3,392 for full-service	lbs/employee/year	Full-service and limited service estimated separately
		2,494 for limited-service		
Draper/Lennon	2002	3,000	lbs/employee/year	Unspecified
CCG	2015	2,760	lbs/employee/year	Full-service and limited-service estimated together
BSR	2014	0.033	lbs/revenue/year	Unspecified

ADDRESS	CITY	COUNTY	STATE	ZIP CODE	EXCESS FOOD TON YEAR LOWEST	EXCESS FOOD TON YEAR HIGHEST	UNIQUE ID
2255 E Sunset Rd Apt 1048	Las Vegas	Clark County	NV	89119	0.02	1.70	FSV21229
1453 Summer Glow Ave	Henderson	Clark County	NV	89012	0.02	1.50	FSV46282
2525 Argent Ave	Elko	Elko County	NV	89801	0.08	20.35	FSV5353
184 H St	Hawthorne	Mineral County	NV	89415	0.17	10.50	FSV445178
6199 S Virginia St	Reno	Washoe County	NV	89502	0.22	28.50	FSV469622
301 Fremont St	Las Vegas	Clark County	NV	89101	0.31	1.70	FSV168450
868 Tahoe Blvd Ste 18 # 18-19	Incline Village	Washoe County	NV	89451	0.38	1.70	FSV124908
5055 W Sahara Ave	Las Vegas	NULL	NV	89146	0.38	1.70	FSV144337
1745 S Rainbow Blvd Ste C	Las Vegas	Clark County	NV	89146	0.38	1.70	FSV643405
5400 Mountain Vista St Ste 621	Las Vegas	Clark County	NV	89120	0.38	1.50	FSV161542
3369 Thom Blvd	Las Vegas	Clark County	NV	89130	0.38	1.50	FSV246077
1819 Baja Ln	Henderson	Clark County	NV	89012	0.38	1.50	FSV34078

Yahweh-Yired, LLC	Full-Service Restaurants	722511
Diverse Dogs, LLC	Limited-Service Restaurants	722513
Hideaway Bar and Grill LLC	Limited-Service Restaurants	722513
B & D Froyo, LLC	Mobile Food Services	722330

# Hospitality Industry



2,102 listed for Nevada

**Estimated excess food generated:** Low-end estimate – **29,432 tons**      High-end estimate – **155,634 tons**

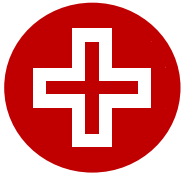
**Data Source:** Represents hotels and motels, casinos, and casino hotels associated with three NAICS codes. Establishment-specific information except the annual excess food estimate was licensed to the EPA from Hoovers, Inc. in 2018

The generation factors from four studies based on empirical data collected direction from sampled hotels were used to calculate excess food generation when multiplied by each facilities' number of employees.

SOURCE	YEAR	GENERATION FACTOR	UNIT	CS_CODE	ADDRESS	CITY	COUNTY	STATE	ZIP_CODE	EXCESS FOOD TON YEAR LOWEST	EXCESS FOOD TON YEAR HIGHEST
CCG	2006	1,983	lbs/employee/year	110	1610 Lake Las Vegas Pkwy	Henderson	Clark County	NV	89011	0.375000	1.983000
Okazaki et. al.	2008	375	lbs/employee/year	110	221 N Rampart Blvd	Las Vegas	Clark County	NV	89145	93.750000	495.750000
CCG	2015	1,197	lbs/employee/year	110	866 N Wells Ave	Reno	Washoe County	NV	89512	0.375000	1.983000
Tetra Tech	2015	997	lbs/employee/year	110	1091 Cobre St	Wells	NULL	NV	89835	0.375000	1.983000
				110	1300 N Carson St	Carson City	Carson City	NV	89701	0.375000	1.983000
				120	301 Fremont St	Las Vegas	NULL	NV	89101	0.375000	1.983000
MGM International, Lic.		Casino Hotels		721120	3950 Las Vegas Blvd S	Las Vegas	Clark County	NV	89119	0.375000	1.983000
Crossland Las Vegas Boulder Highway		Hotels (except Casino Hotels) and Motels		721110	4240 Boulder Hwy	Las Vegas	Clark County	NV	89121	0.375000	1.983000
Hotel Paris		Hotels (except Casino Hotels) and Motels		721110	Las Vegas Blvd	Las Vegas	Clark County	NV	89107	0.375000	1.983000
Aristocrat Gaming		Casinos (except Casino Hotels)		713210	2485 Abbeystone Cir	Las Vegas	Clark County	NV	89105	0.750000	3.966000
Starpoint Resort Group, Inc.		Hotels (except Casino Hotels) and Motels		721110	454 NV-207	Stateline	Douglas County	NV	89449	4.312500	22.804500
Silver Legacy Hotel Casin		Casino Hotels		721120	300 N Center St	Reno	Washoe County	NV	89505	5.250000	27.762000
Solariums Direct Inc		Hotels (except Casino Hotels) and Motels		721110	300 N Center St	Reno	Washoe County	NV	89505	0.562500	2.974500
Dr Hostels LLC		Hotels (except Casino Hotels) and Motels		721110	NULL	Boulder City	Clark County	NV	89006	0.375000	1.983000
MGM National Harbor		Casino Hotels		721120	NULL	Las Vegas	Clark County	NV	89113	1.875000	9.915000
Atlantis Resort Hotel		Hotels (except Casino Hotels) and Motels		721110	NULL	Zephyr Cove	Douglas County	NV	89448	0.375000	1.983000



# Healthcare Facilities



76 listed for Nevada

**Estimated excess food generated:** Low-end estimate -- **904 tons**      High-end estimate – **4,850 tons**  
*\*Doesn't include 16 facilities for which we had insufficient data to develop estimates*

**Data Source:** Represents healthcare facilities associated with three NAICS codes. Hospital bed data was obtained from Dept of Homeland Security's Homeland Infrastructure Foundation-Level Data (2017)

The generation factors from four studies that involved original research or which present foundation, widely cited estimates.

SOURCE	YEAR	GENERATION FACTOR	UNITS	NAICS_CODE	ADDRESS	CITY	COUNTY	STATE	ZIP_CODE	EXCESS FOOD TON YEAR LOWEST	EXCESS FOOD TON YEAR HIGHEST	UNIQUEID
Draper/Lennon	2001	1,248.3	lbs/bed/year									
NCDENR	2012	468.2	lbs/bed/year									
Walsh	1993	663.4	lbs/bed/year									
CCG	2015	232.6	lbs/bed/year									
WILLIAM BEE RIRIE HOSPITAL				622110	1500 AVENUE 'H'	ELY	WHITE PINE	NV	89301	1.3956	7.4898	18HEA3195
SIERRA SURGERY HOSPITAL				622310	1400 MEDICAL PKWY	CARSON CITY	CARSON CITY	NV	89703	1.7445	9.36225	18HEA3221
GROVER C DILS MEDICAL CENTER				622110	700 NORTH SPRING STREET	CALIENTE	LINCOLN	NV	89008	2.326	12.483	18HEA3952
SANA BEHAVIORAL HEALTH - LAS VEGAS				622210	5975 WEST TWAIN AVENUE	LAS VEGAS	CLARK	NV	89103	2.4423	13.10715	18HEA4439
CARSON VALLEY MEDICAL CENTER				622110	1107 HIGHWAY 395	GARDNERVILLE	DOUGLAS	NV	89410	2.6749	14.35545	18HEA3396
LAS VEGAS - AMG SPECIALTY HOSPITAL				622310	4015 SOUTH MCLEOD DRIVE	LAS VEGAS	CLARK	NV	89121	2.7912	14.9796	18HEA4441
DESERT VIEW REGIONAL MEDICAL CENTER				622110	360 SOUTH LOLA LANE	PAHRUMP	NYE	NV	89048	2.9075	15.60375	18HEA4376
MESA VIEW REGIONAL HOSPITAL				622110	1299 BERTHA HOWE AVENUE	MESQUITE	CLARK	NV	89027	2.9075	15.60375	18HEA4213
CARSON TAHOE CONTINUING CARE HOSPITAL				622310	775 FLEISCHMANN WAY	CARSON CITY	CARSON CITY	NV	89703	3.3727	18.10035	18HEA3234
SPRING MOUNTAIN SAHARA				622110	5460 WEST SAHARA	LAS VEGAS	CLARK	NV	89146	3.489	18.7245	18HEA4415
DINI-TOWNSEND HOSPITAL AT NORTHERN NEVADA				622210	480 GALLETI WAY	SPARKS	WASHOE	NV	89431	3.489	18.7245	18HEA3059
PERSHING GENERAL HOSPITAL				622110	855 SIXTH STREET	LOVELOCK	PERSHING	NV	89419	4.4194	23.7177	18HEA2651
HORIZON SPECIALTY HOSPITAL OF HENDERSON				622110	855 S EASTERN AVE	HENDERSON	CLARK	NV	89123	4.5357	24.24185	18HEA4506

# Educational Institutions



808 listed for Nevada

**Estimated excess food generated:** Low-end estimate – **5,653 tons**      High-end estimate – **28,407 tons**

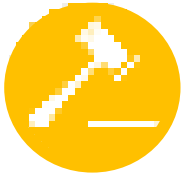
*\*Doesn't include 10 facilities for which we had insufficient data to develop estimates*

**Data Source:** Includes colleges and universities and public and private elementary and secondary schools. The data for each type of institution were collected from publicly accessible databases available at National Center for Education Statistics from 2015 and 2016

Calculations used to estimate annual excess food weight are described in EPA's 2019 publication: Technical Methodology for the EPA Excess Food Opportunities Map

NAME	SCHOOL_TYPE	ADDRESS	CITY	COUNTY	STATE	ZIP_CODE	PHONE	EXCESS FOOD TON YEAR LOWEST	EXCESS FOOD TON YEAR HIGHEST	UNIQUEID
William G Bennett Elementary School	Public Elementary & Secondary	2750 S. Needles Hwy	Laughlin	Clark County	NV	89029	(702)298-3378	3.006000	14.154920	EDU2018040120
Laughlin Jr/Sr High School	Public Elementary & Secondary	1900 Cougar Dr.	Laughlin	Clark County	NV	89029	(702)298-1996	3.114000	14.663480	EDU2018040263
Harry Reid Elementary School	Public Elementary & Secondary	300 Michael Wendell Way	Searchlight	Clark County	NV	89046	(702)297-1224	0.117000	0.550940	EDU2018042283
Sandy Valley Jr/Sr High School	Public Elementary & Secondary	1420 E. Pearl Ave.	Sandy Valley	Clark County	NV	89019	(702)723-5344	1.089000	5.127980	EDU2018044123
Sandy Valley Elementary School	Public Elementary & Secondary	1420 E. Pearl Ave.	Sandy Valley	Clark County	NV	89019	(702)723-5344	1.125000	5.297500	EDU2018044124
Goodsprings Elementary School	Public Elementary & Secondary	385 W. San Pedro Ave.	Goodsprings	Clark County	NV	89019	(702)874-1378	0.144000	0.678080	EDU2018044233
Shirley & Bill Wallin Elementary School	Public Elementary & Secondary	2333 Canyon Retreat Dr	Henderson	Clark County	NV	89044	(702)799-5776	8.154000	38.396280	EDU2018044765
Martha P King Elementary School	Public Elementary & Secondary	888 Adams Blvd	Boulder City	Clark County	NV	89005	(702)799-8260	4.194000	19.749080	EDU2018045028
Elton M Garrett Junior High School	Public Elementary & Secondary	1200 Ave. G	Boulder City	Clark County	NV	89005	(702)799-8290	3.915000	18.435300	EDU2018045031
Andrew Mitchell Elementary School	Public Elementary & Secondary	900 Ave. B	Boulder City	Clark County	NV	89005	(702)799-8280	3.195000	15.044900	EDU2018045040
Boulder City High School	Public Elementary & Secondary	1101 Fifth St.	Boulder City	Clark County	NV	89005	(702)799-8200	5.472000	25.767040	EDU2018045045
GRACE CHRISTIAN ACADEMY	Private Elementary & Secondary	512 CALIFORNIA AVE	BOULDER CITY	Clark County	NV	89005	NULL	0.144000	0.678080	EDU2018045094
NEW SONG CHRISTIAN ACAD	Private Elementary & Secondary	1291 CORNET ST	HENDERSON	Clark County	NV	89052	NULL	0.063000	0.296660	EDU2018045118
Del E Webb Middle School	Public Elementary & Secondary	2200 Reunion Dr.	Henderson	Clark County	NV	89052	(702)799-1305	15.939000	75.054980	EDU2018045121
Steve Schorr Elementary School	Public Elementary & Secondary	11420 Placid Street	Las Vegas	Clark County	NV	89183	(702)799-1380	7.380000	34.751600	EDU2018045135
Franklin Elementary School	Public Elementary & Secondary	4895 Charleston Ave	Las Vegas	Clark County	NV	89144	(702)799-3374	8.685000	48.886700	EDU2018045166

# Correctional Institutions



45 listed for Nevada

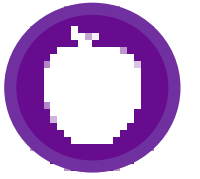
**Estimated excess food generated:** Low-end estimate – **2,632 tons**      High-end estimate – **4,754 tons**

**Data Source:** Represents correctional facilities associated with a single NAICS code. Establishment-specific information except the annual excess food estimate was licensed to the EPA from Hoovers, Inc. in 2018

The generation factors from six studies based on empirical data collected from various prisons and then multiplied by the number of employees and inmates per an employee.

STUDY	YEAR	GENERATION FACTOR	UNITS	DE	ADDRESS	CITY	COUNTY	STATE	ZIP_CODE	EXCESS FOOD TON YEAR LOWEST	EXCESS FOOD TON YEAR HIGHEST	UNIQUEID
Marion, J.	2000	1.00	lbs/inmate/day		1721 Snieder Ave	Carson City	Carson City	NV	89702	1.92355	3.4748	COR201801451
Draper/Lennon	2001	1.00	lbs/inmate/day		135 Keddie St	Fallon	Churchill County	NV	89406	2.404437	4.3435	COR20180948
Kessler Consulting	2004	1.20	lbs/inmate/day		301 Goldstar St	Henderson	Clark County	NV	89012	2.885325	5.2122	COR201802672
					1368 Cathy Ln	Minden	Douglas County	NV	89423	3.366213	6.0809	COR20180977
					100 Conservation Rd	Tonopah	Nye County	NV	89049	3.8471	6.9496	COR2018077
Mendrey, K.	2013	1.25	lbs/inmate/day		5500 Snyder Ave # 89	Carson City	Carson City	NV	89701	3.8471	6.9496	COR201803927
					500 Hillside Dr	Mesquite	Clark County	NV	89027	4.808875	8.687	COR201803717
					335 N Broadway St	Fallon	Churchill County	NV	89406	4.808875	8.687	COR201802999
Goldstein, N.	2015	1.40	lbs/inmate/day		2055 E Prater Way	Sparks	Washoe County	NV	89434	4.808875	8.687	COR201801895
					3430 Las Vegas Blvd N	Las Vegas	Clark County	NV	89115	4.808875	8.687	COR201803038
					6577 Barbary Cir	Las Vegas	Clark County	NV	89103	5.289763	9.5557	COR201804248
CalRecycle	2018	0.85	lbs/inmate/day		124 Susie Creek Rd	Carlin	Elko County	NV	89822	5.289763	9.5557	COR20180756
Nevada Department of Corrections		Correctional Institutions	922140		225 Sunshine Ln	Reno	Washoe County	NV	89502	5.289763	9.5557	COR201802118
Nevada Department of Corrections		Correctional Institutions	922140		Hc 10 Box 10813	Ely	White Pine County	NV	89301	5.289763	9.5557	COR201805072
County of Elko		Correctional Institutions	922140		665 W Silver St	Elko	Elko County	NV	89801	5.77065	10.4244	COR201804262

# Food Banks



2 listed for Nevada

**Estimated excess food generated:** Low-end estimate -- **196 tons**      High-end estimate – **23,181 tons**

**Data Source:** Represents facilities that recover excess food to feed people across the US. Food bank information was collected in 2015 from Feeding America, and includes food banks as well as Partner Distribution Organizations and Regional Distribution Organizations

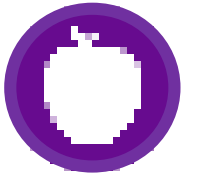
Feeding America provided data on generation of excess food as reported by individual food banks in its network, where available.

Name	Address	City	County	State	Zip Code	EXCESS FOOD TON YEAR LOWEST	EXCESS FOOD TON YEAR HIGHEST
Food Bank of Northern Nevada	550 Italy Dr	McCarran	Storey County	NV	89434	154.9565	6429.1155
Three Square	4190 N. Pecos Rd.	Las Vegas	Clark County	NV	89115	41.221	16752.356



# Excess Food Recipients

# Food Banks



2 listed for Nevada

**Data Source:** Represents facilities that recover excess food to feed people across the US. Food bank information was collected in 2015 from Feeding America, and includes food banks as well as Partner Distribution Organizations and Regional Distribution Organizations

Name	Address	City	County	State	Zip Code
Food Bank of Northern Nevada	550 Italy Dr	McCarran	Storey County	NV	89434
Three Square	4190 N. Pecos Rd.	Las Vegas	Clark County	NV	89115

# Anaerobic Digestion Facilities



5 listed for Nevada

**Data Source:** Represents operational anaerobic digestion facilities that could potentially accept excess food. The data was compiled from lists maintained by US EPA staff and the AgSTAR program.

Type	Name	Address	City	County	State	Zip Code
Water Resource Recovery Facility	City of Las Vegas Water Pollution Control	6005 E. Vegas Valley Drive	Las Vegas	Clark	NV	89142
Water Resource Recovery Facility	MINDEN-GARDNERVILLE SD WWTP	1790 Hwy 395	Minden	Douglas	NV	89423
Water Resource Recovery Facility	TRUCKEE MEADOWS WRF - Reno	8500 CLEAN WATER WAY	RENO	WASHOE	NV	89502
Water Resource Recovery Facility	CARSON CITY WWRF	3305 E. FIFTH ST.	CARSON CITY	Lyon	NV	89701
Water Resource Recovery Facility	ELKO WRF	1600 STP Road	Elko	Elko	NV	89801

# Compost Facilities



7 listed for Nevada

**Data Source:** Represents operational composting facilities that may accept excess food as a feedstock. This data was compiled in 2018 from state agencies and their websites.

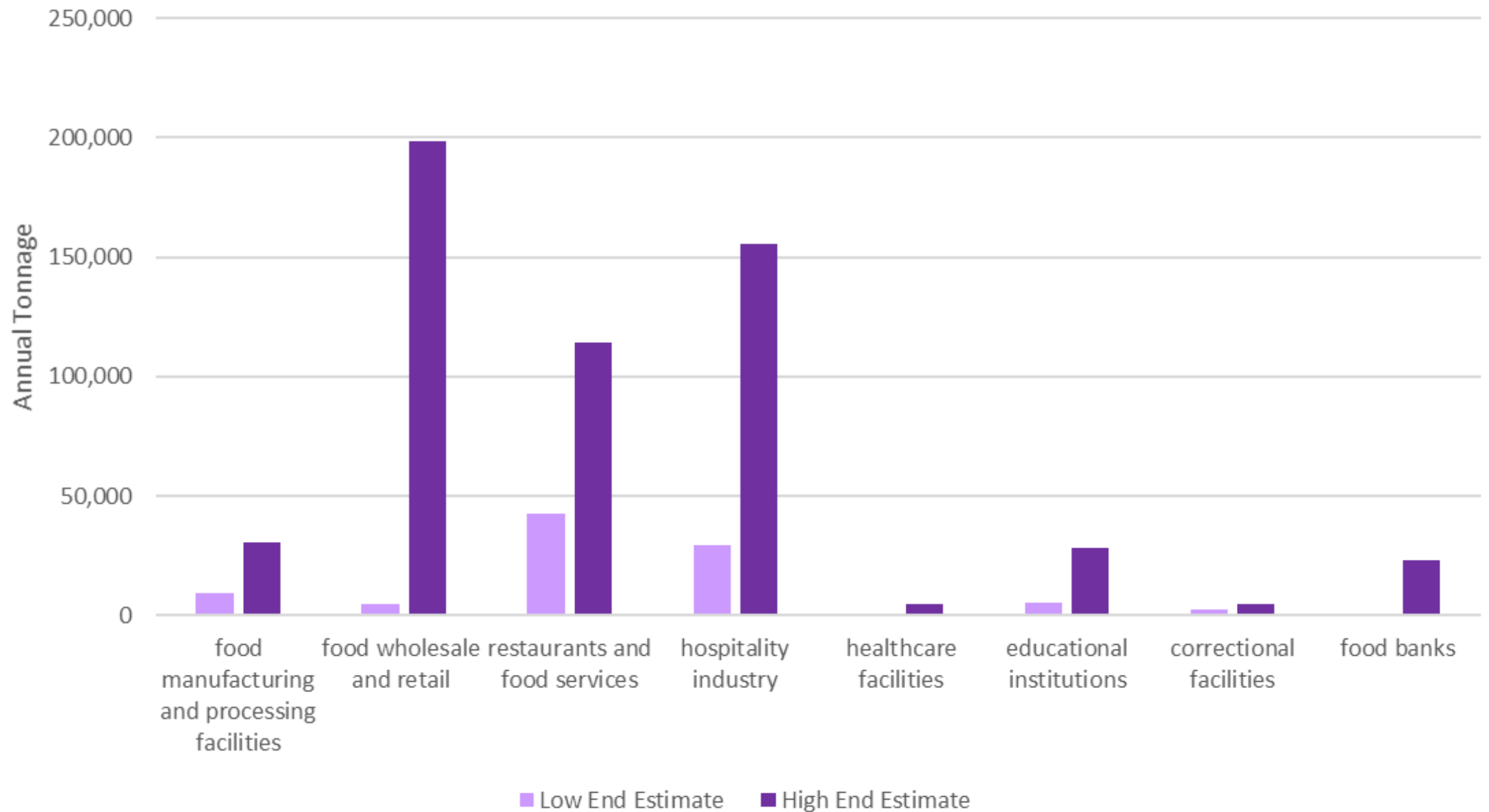
Type	Name	Address	City	County	State	Zip Code
Compost Facility	Bently Agrowdynamics Compost Faci	Po Box 127	MINDEN	Douglas County	NV	89423
Compost Facility	Genoa Trees And Landscaping	2181 Us Hwy 395		Douglas County	NV	89423
Compost Facility	Nncc Compost Plant	1721 Snyder Ave	Carson City	Carson City	NV	89702
Compost Facility	Ponderosa Dairy	Po Box 70	AMARGOSA VALLEY	Nye County	NV	89020
Compost Facility	Wendover Compost Facility	Po Box 2825	WEST WENDOVER	Elko County	NV	89883
Compost Facility	Western Elite, Inc.	6345 East Bonanza Road		Clark County	NV	89110
Compost Facility	Full Circle Compost		Minden	Douglas County	NV	89423



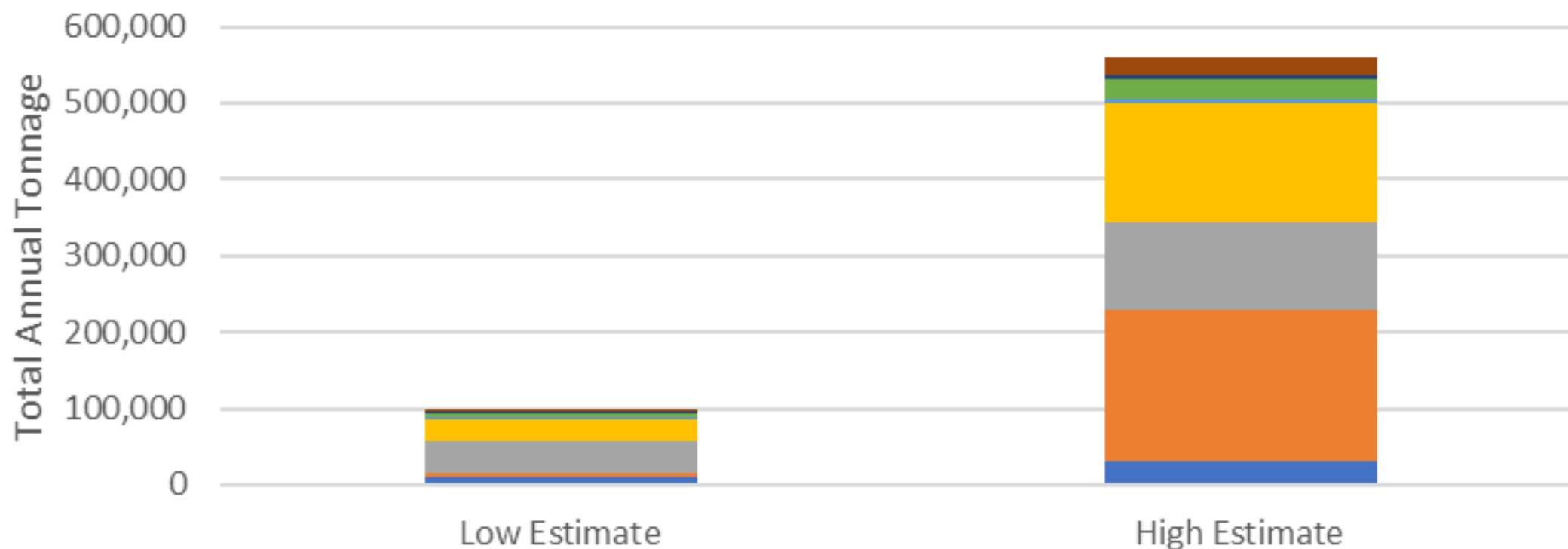
# Analyzing the Estimates



## Low and High Estimates of Excess Food By Generator



## Total Low and High Estimates of Excess Food Generated



- food manufacturing and processing facilities
- food wholesale and retail
- restaurants and food services
- hospitality industry
- healthcare facilities
- educational institutions
- correctional facilities
- food banks

# More Generation Factors

## EPA's Wasted Food Measurement Methodology Scoping Memo (July 2020)

If you have business specific statistics, then it's possible to use the food waste generation figures detailed in our most recent report and used in EPA's "Facts and Figures Report."

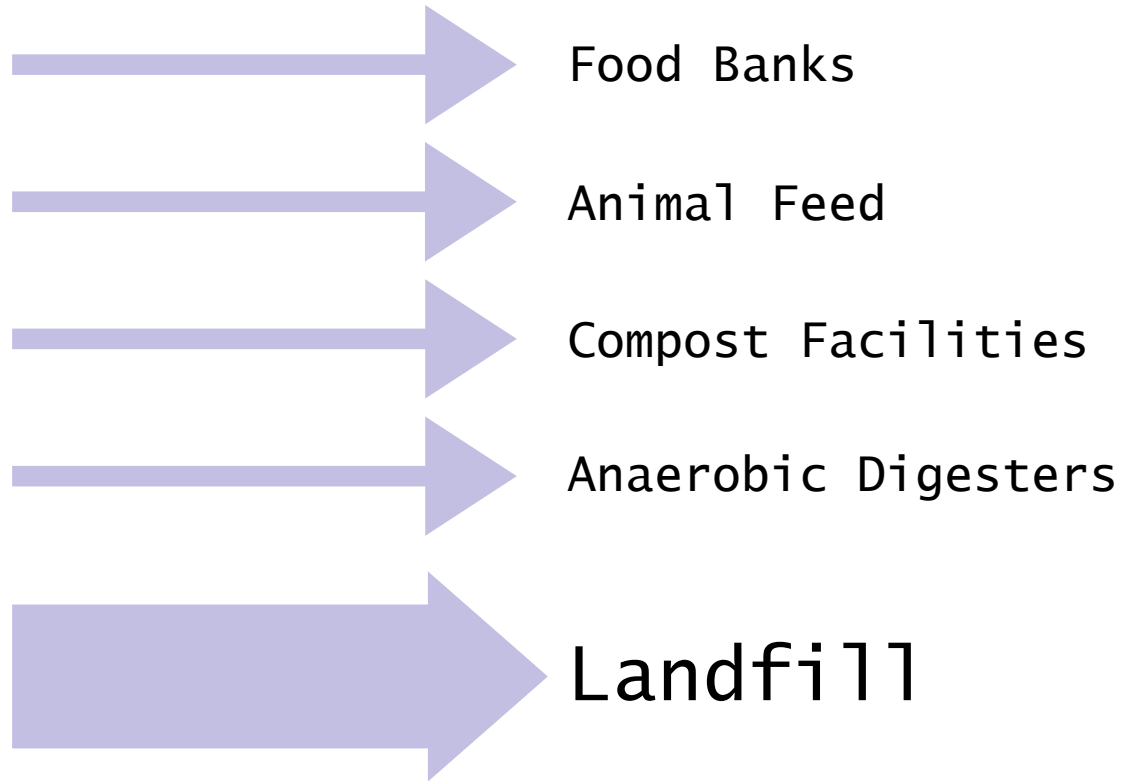
TABLE 1. AVERAGE FOOD WASTE AND EXCESS FOOD GENERATION FACTORS (2016)

HIGH LEVEL SECTOR	CATEGORY	SECTOR	GENERATION FACTOR	UNITS	
Industrial	N/A	Manufacturing/ Processing	0.09	Lbs/sales \$/year	
Residential	N/A	Residential	340.42	Lbs/household/year	
			17.04	Percent food waste (of total household waste)	
Commercial	Food Retail/Wholesale	Supermarkets	2.04	Tons/employee/year	
			0.38	Tons/employee/year	
		104.88	Tons/establishment/year		
		Supercenters	10.00	Lbs/thousand \$ revenue	
		Food Wholesale	120.68	Tons/facility/year	
	Hospitality		Hotels	0.01	Tons/thousand \$ revenue
				1,137.83	Lbs/employee/year
			Restaurants/Food Services (full service)	3,050.67	Lbs/employee/year
				39.13	Tons/facility/year
				33.00	Lbs/thousand \$ revenue/year
			Restaurants/Food Services (limited service)	2,751.33	Lbs/employees/year
				40.91	Tons/facility/year
Sports Venues	33.00	Lbs/thousand \$ revenue/year			
Institutional	N/A	Hospitals	0.31	Lbs/visitor/year	
			653.14	Lbs/bed/year	
		0.47	Lbs/meal		
		Nursing Homes	657.00	Lbs/bed/year	
		Military Installations	0.55	Lbs/meal	
N/A	N/A	Office Buildings	105.27	Lbs/person/year	
			169.85	Lbs/employee/year	
		0.22	Tons/1000 sq ft/year		
		Correctional Facilities	1.12	Lbs/inmate/day	
		Colleges and Universities	0.36	Lbs/student/meal	
			0.44	Lbs/student/meal	
			0.01	Tons/student/year	
		K-12 Schools	21.99	Lbs/student/year	
0.43	Lbs/meal				
N/A	N/A	Food Banks	299	Tons/establishment	

# Initial Thoughts

- If the goal for the baseline is to estimate the potential excess food that could be collected for donation, then EPA's Excess Food Opportunities Map is a good starting point.
  - Depending on available Nevada specific data, you could further refine the estimates and use the most relevant generation factors from EPA's Excess Food Opportunities Map technical methodology or in EPA's *Wasted Food Measurement Methodology Scoping Memo (July 2020)*
    - For example, if you have data on the number of hotel employees you could use the generation factor of 1,137.83 lbs/employee/year, arriving at a single estimate per a generator rather than a range.
- If the goal is to develop a baseline for the total amount of excess food and food waste that is generated in the state, then additional generators would need to be included such as:
  - The residential sector (multifamily and single family)
  - Sports venues
  - Office buildings
  - Nursing homes
  - Military installations
- Then gather available data/develop estimates on excess food and food waste sent to each of the recipient types/management pathways

# Pathways



# Questions?

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US EPA Region 9

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## How much food is wasted in the U.S.?

Amount of food that goes uneaten each year:

**1/3**

Percentage of waste thrown away that is food:

**21%**

Cost of the food that goes uneaten each year:

**\$161  
BILLION**

Amount of food waste that got diverted from landfills:

**5%**

Number of Americans from households that don't always have enough to eat:

**48  
MILLION**



#NoWastedFood