



Dairy Products

ISSN: 1949-0399

Released February 5, 2024, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

December 2023 Highlights

Total cheese output (excluding cottage cheese) was 1.21 billion pounds, 0.9 percent above December 2022 and 4.4 percent above November 2023.

Italian type cheese production totaled 510 million pounds, 0.3 percent above December 2022 and 4.9 percent above November 2023.

American type cheese production totaled 488 million pounds, 0.5 percent above December 2022 and 5.9 percent above November 2023.

Butter production was 196 million pounds, 4.4 percent above December 2022 and 18.4 percent above November 2023.

Dry milk products (comparisons in percentage with December 2022)

Nonfat dry milk, human - 146 million pounds, down 12.7 percent.

Skim milk powder - 48.3 million pounds, down 24.3 percent.

Whey products (comparisons in percentage with December 2022)

Dry whey, total - 70.4 million pounds, down 6.1 percent.

Lactose, human and animal - 90.9 million pounds, up 1.7 percent.

Whey protein concentrate, total - 42.1 million pounds, up 1.0 percent.

Frozen products (comparisons in percentage with December 2022)

Ice cream, regular (hard) - 47.7 million gallons, down 11.1 percent.

Ice cream, lowfat (total) - 24.0 million gallons, down 11.8 percent.

Sherbet (hard) - 1.26 million gallons, down 25.1 percent.

Frozen yogurt (total) - 3.70 million gallons, up 0.7 percent.

Contents

Dairy Products Production by Product – United States: December 2022 and 2023	3
Whey and Modified Whey Products Production, Stocks, and Prices – United States: December 2022 and 2023	4
Condensed and Dry Milk Products Production, Stocks, and Shipments – United States: December 2022 and 2023	5
Dairy Products Production by Product and Month – United States: 2022 and 2023	6
Total Cheese Production Excluding Cottage Cheese – States, United States, and Regions: December 2022 and 2023	13
American Cheese Production – States, United States, and Regions: December 2022 and 2023	14
Cheddar Cheese Production – States, United States, and Regions: December 2022 and 2023	14
Total Italian Cheese Production – States, United States, and Regions: December 2022 and 2023	15
Mozzarella Cheese Production – States, United States, and Regions: December 2022 and 2023	15
Butter Production – States, United States, and Regions: December 2022 and 2023	16
Nonfat Dry Milk (Human) Production – States, United States, and Regions: December 2022 and 2023	16
Dry Whey (Human) Production – States, United States, and Regions: December 2022 and 2023	17
Ice Cream, Regular (Hard) Production – States, United States, and Regions: December 2022 and 2023	17
Dairy Products Regions.....	18
Statistical Methodology.....	19
Information Contacts.....	20

Dairy Products Production by Product – United States: December 2022 and 2023

Product	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Butter	188,022	165,844	196,320	4.4	18.4
Cheese					
American types ¹	485,708	460,868	488,063	0.5	5.9
Cheddar	343,228	314,280	336,499	-2.0	7.1
Other American types	142,480	146,588	151,564	6.4	3.4
Blue and Gorgonzola	6,577	7,142	6,753	2.7	-5.4
Brick and Muenster	15,328	16,287	16,444	7.3	1.0
Cream and Neufchatel	92,120	92,682	91,933	-0.2	-0.8
Feta	9,821	10,810	9,485	-3.4	-12.3
Gouda	4,984	5,801	5,960	19.6	2.7
Hispanic	32,636	38,283	39,081	19.7	2.1
Italian types	508,061	485,901	509,533	0.3	4.9
Mozzarella	399,393	379,783	403,583	1.0	6.3
Parmesan	42,877	39,845	41,333	-3.6	3.7
Provolone	30,136	30,491	30,333	0.7	-0.5
Ricotta	22,717	23,226	22,744	0.1	-2.1
Romano	4,355	5,395	4,452	2.2	-17.5
Other Italian types	8,583	7,161	7,088	-17.4	-1.0
Swiss	30,520	26,550	29,030	-4.9	9.3
All other types	12,984	14,232	13,778	6.1	-3.2
Total cheese ²	1,198,739	1,158,556	1,210,060	0.9	4.4
Cottage cheese, curd ³	29,036	30,938	31,179	7.4	0.8
Cottage cheese, cream ⁴	29,136	31,288	29,538	1.4	-5.6
Cottage cheese, lowfat ⁵	21,858	25,996	26,013	19.0	0.1
Sour cream	133,622	141,618	134,415	0.6	-5.1
Yogurt, plain and flavored	371,368	352,983	368,963	-0.6	4.5
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
Frozen products					
Ice cream, regular, hard	53,665	49,837	47,724	-11.1	-4.2
Ice cream, lowfat, hard	13,394	14,531	13,539	1.1	-6.8
Ice cream, lowfat, soft	13,788	12,438	10,426	-24.4	-16.2
Ice cream, lowfat, total ⁶	27,182	26,969	23,965	-11.8	-11.1
Ice cream, nonfat, hard	551	639	626	13.6	-2.0
Sherbet, hard	1,678	1,454	1,256	-25.1	-13.6
Frozen yogurt, total	3,675	2,596	3,701	0.7	42.6
Regular and lowfat, hard	1,169	849	1,266	8.3	49.1
Nonfat, hard	210	170	139	-33.8	-18.2
Other frozen dairy products	681	908	805	18.2	-11.3
Water and juice ices	4,182	4,618	4,044	-3.3	-12.4
Mix for frozen products					
Ice cream, regular, mix	33,859	31,597	29,925	-11.6	-5.3
Ice cream, lowfat, mix ⁷	14,174	15,096	13,369	-5.7	-11.4
Ice cream, nonfat, mix	392	412	307	-21.7	-25.5
Sherbet mix	1,392	1,076	1,127	-19.0	4.7
Yogurt mix	2,313	1,778	1,919	-17.0	7.9

¹ Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

² Excludes Cottage Cheese.

³ Mostly used for processing into cream or lowfat cottage cheese.

⁴ Fat content 4 percent or more.

⁵ Fat content less than 4 percent.

⁶ Includes freezer-made milkshake.

⁷ Includes milkshake mix.

**Whey and Modified Whey Products Production, Stocks, and Prices – United States:
December 2022 and 2023**

Product	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Condensed whey, solids content ¹					
Sweet-type, human	9,347	9,179	9,670	3.5	5.3
Dry whey products					
Dry whey, human	72,761	62,126	66,062	-9.2	6.3
Dry whey, animal	2,169	5,230	4,319	99.1	-17.4
Dry whey, total	74,930	67,356	70,381	-6.1	4.5
Reduced lactose and minerals					
Human	2,680	573	693	-74.1	20.9
Animal	3,133	2,399	2,821	-10.0	17.6
Whey protein concentrate					
Human ²	40,434	39,358	41,057	1.5	4.3
Animal ²	1,274	1,085	1,085	-14.8	-
Total ²	41,708	40,443	42,142	1.0	4.2
25.0-49.9 percent ³	15,284	12,319	12,560	-17.8	2.0
50.0-89.9 percent ³	26,424	28,124	29,582	12.0	5.2
Whey protein isolates ⁴	8,761	10,674	10,067	14.9	-5.7
Lactose, human and animal	89,419	84,931	90,904	1.7	7.0
Manufacturers' stocks end of month ⁵					
Dry whey products					
Dry whey, human	68,264	66,721	65,485	-4.1	-1.9
Dry whey, animal	1,247	4,339	3,887	211.7	-10.4
Dry whey, total	69,511	71,060	69,372	-0.2	-2.4
Reduced Lactose and minerals					
Human and animal ⁶	13,138	5,942	5,820	-55.7	-2.1
Whey protein concentrate					
Human ²	81,276	63,014	61,761	-24.0	-2.0
Animal ²	982	1,479	1,565	59.4	5.8
Total ²	82,258	64,493	63,326	-23.0	-1.8
25.0-49.9 percent ³	29,328	25,999	25,109	-14.4	-3.4
50.0-89.9 percent ³	52,930	38,494	38,217	-27.8	-0.7
Whey protein isolates ⁴	23,082	16,563	15,915	-31.1	-3.9
Lactose, human and animal	172,089	108,840	105,309	-38.8	-3.2
	(cents per pound)	(cents per pound)	(cents per pound)	(cents change)	(cents change)
Manufacturers' selling price ⁷					
Dry whey, animal	16.0	21.2	23.3	7.3	2.1

- Represents zero.

¹ Final marketable product only. Does not include quantity used or shipped to another plant for further processing into dry whey or modified whey products. Does not include sweet-type, animal whey.

² Whey protein concentrate, 25.0 to 89.9 percent.

³ Whey protein concentrate, human and animal.

⁴ Whey protein isolate, 90.0 percent or greater.

⁵ Stocks held by manufacturers at all points and in transit.

⁶ Reduced lactose and minerals stocks combined to avoid disclosure of individual operations.

⁷ Prices for bulk goods, f.o.b. plant. Average monthly prices reported by firms.

**Condensed and Dry Milk Products Production, Stocks, and Shipments – United States:
December 2022 and 2023**

Product	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
Production					
Bulk condensed milk					
Skim, unsweetened	102,917	104,976	111,581	8.4	6.3
Dry milk products					
Dry buttermilk, total	14,168	10,781	14,621	3.2	35.6
Dry skim milk, animal	602	595	546	-9.3	-8.2
Dry whole milk	8,441	10,000	9,600	13.7	-4.0
Milk protein concentrate, total ¹	17,647	15,875	18,079	2.4	13.9
Nonfat dry milk, human	167,711	115,702	146,409	-12.7	26.5
Skim milk powder, total ²	63,766	56,871	48,300	-24.3	-15.1
Manufacturers' stocks end-of-month ³					
Dry milk products					
Dry buttermilk, total	35,131	26,902	30,040	-14.5	11.7
Dry skim milk, animal	8,075	8,114	6,499	-19.5	-19.9
Dry whole milk	15,202	10,218	13,073	-14.0	27.9
Nonfat dry milk, human	255,687	206,034	203,314	-20.5	-1.3
Manufacturers' shipments ⁴					
Dry milk products					
Nonfat dry milk, human	168,801	120,123	144,832	-14.2	20.6

¹ Dry milk protein concentrate, 40-89.9 percent.

² Includes protein standardized and blends.

³ Stocks held by manufacturers at all points and in transit.

⁴ For dry products, shipments of bulk goods.

Dairy Products Production by Product and Month – United States: 2022 and 2023

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total cheese ¹						
January	1,178,278	1,205,337	2.3	1,178,278	1,205,337	2.3
February	1,091,747	1,100,262	0.8	2,270,025	2,305,599	1.6
March	1,231,174	1,231,918	0.1	3,501,199	3,537,517	1.0
April	1,173,437	1,169,980	-0.3	4,674,636	4,707,497	0.7
May	1,204,698	1,203,666	-0.1	5,879,334	5,911,163	0.5
June	1,165,799	1,170,317	0.4	7,045,133	7,081,480	0.5
July	1,170,138	1,155,782	-1.2	8,215,271	8,237,262	0.3
August	1,157,264	1,156,500	-0.1	9,372,535	9,393,762	0.2
September	1,150,810	1,149,658	-0.1	10,523,345	10,543,420	0.2
October	1,184,538	1,194,253	0.8	11,707,883	11,737,673	0.3
November	1,156,153	1,158,556	0.2	12,864,036	12,896,229	0.3
December	1,198,739	1,210,060	0.9	14,062,775	14,106,289	0.3
Total American cheese types ²						
January	483,756	498,646	3.1	483,756	498,646	3.1
February	436,283	443,179	1.6	920,039	941,825	2.4
March	482,811	498,889	3.3	1,402,850	1,440,714	2.7
April	477,133	485,838	1.8	1,879,983	1,926,552	2.5
May	488,333	510,181	4.5	2,368,316	2,436,733	2.9
June	466,040	473,627	1.6	2,834,356	2,910,360	2.7
July	473,984	468,347	-1.2	3,308,340	3,378,707	2.1
August	457,667	458,648	0.2	3,766,007	3,837,355	1.9
September	446,931	462,501	3.5	4,212,938	4,299,856	2.1
October	475,411	470,128	-1.1	4,688,349	4,769,984	1.7
November	466,253	460,868	-1.2	5,154,602	5,230,852	1.5
December	485,708	488,063	0.5	5,640,310	5,718,915	1.4
Cheddar cheese						
January	344,643	353,921	2.7	344,643	353,921	2.7
February	306,347	317,059	3.5	650,990	670,980	3.1
March	333,498	348,055	4.4	984,488	1,019,035	3.5
April	327,173	345,668	5.7	1,311,661	1,364,703	4.0
May	339,704	356,583	5.0	1,651,365	1,721,286	4.2
June	341,624	338,004	-1.1	1,992,989	2,059,290	3.3
July	340,236	323,377	-5.0	2,333,225	2,382,667	2.1
August	318,114	313,182	-1.6	2,651,339	2,695,849	1.7
September	305,153	311,284	2.0	2,956,492	3,007,133	1.7
October	340,233	328,858	-3.3	3,296,725	3,335,991	1.2
November	323,788	314,280	-2.9	3,620,513	3,650,271	0.8
December	343,228	336,499	-2.0	3,963,741	3,986,770	0.6

See footnote(s) at end of table.

--continued

Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Total Italian cheese types						
January	485,660	499,904	2.9	485,660	499,904	2.9
February	457,311	458,867	0.3	942,971	958,771	1.7
March	519,279	512,918	-1.2	1,462,250	1,471,689	0.6
April	491,105	479,150	-2.4	1,953,355	1,950,839	-0.1
May	496,930	482,542	-2.9	2,450,285	2,433,381	-0.7
June	485,592	480,836	-1.0	2,935,877	2,914,217	-0.7
July	488,763	482,907	-1.2	3,424,640	3,397,124	-0.8
August	486,732	483,985	-0.6	3,911,372	3,881,109	-0.8
September	496,490	479,742	-3.4	4,407,862	4,360,851	-1.1
October	499,233	506,674	1.5	4,907,095	4,867,525	-0.8
November	488,746	485,901	-0.6	5,395,841	5,353,426	-0.8
December	508,061	509,533	0.3	5,903,902	5,862,959	-0.7
Mozzarella						
January	376,548	393,111	4.4	376,548	393,111	4.4
February	356,604	361,531	1.4	733,152	754,642	2.9
March	408,184	401,721	-1.6	1,141,336	1,156,363	1.3
April	386,577	380,896	-1.5	1,527,913	1,537,259	0.6
May	377,519	379,497	0.5	1,905,432	1,916,756	0.6
June	386,708	380,049	-1.7	2,292,140	2,296,805	0.2
July	392,366	382,947	-2.4	2,684,506	2,679,752	-0.2
August	383,858	382,496	-0.4	3,068,364	3,062,248	-0.2
September	385,587	379,942	-1.5	3,453,951	3,442,190	-0.3
October	390,597	399,380	2.2	3,844,548	3,841,570	-0.1
November	384,171	379,783	-1.1	4,228,719	4,221,353	-0.2
December	399,393	403,583	1.0	4,628,112	4,624,936	-0.1
Other Italian cheese types						
January	7,990	7,155	-10.5	7,990	7,155	-10.5
February	7,233	6,580	-9.0	15,223	13,735	-9.8
March	8,836	7,398	-16.3	24,059	21,133	-12.2
April	8,067	9,487	17.6	32,126	30,620	-4.7
May	8,069	7,195	-10.8	40,195	37,815	-5.9
June	8,091	6,795	-16.0	48,286	44,610	-7.6
July	7,420	6,526	-12.0	55,706	51,136	-8.2
August	7,150	7,048	-1.4	62,856	58,184	-7.4
September	8,237	6,540	-20.6	71,093	64,724	-9.0
October	7,931	7,316	-7.8	79,024	72,040	-8.8
November	7,837	7,161	-8.6	86,861	79,201	-8.8
December	8,583	7,088	-17.4	95,444	86,289	-9.6

See footnote(s) at end of table.

--continued

Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Butter						
January	196,236	201,347	2.6	196,236	201,347	2.6
February	183,333	187,200	2.1	379,569	388,547	2.4
March	202,211	204,964	1.4	581,780	593,511	2.0
April	181,303	196,909	8.6	763,083	790,420	3.6
May	179,812	194,581	8.2	942,895	985,001	4.5
June	158,979	162,129	2.0	1,101,874	1,147,130	4.1
July	151,755	159,267	5.0	1,253,629	1,306,397	4.2
August	142,959	139,969	-2.1	1,396,588	1,446,366	3.6
September	140,552	142,737	1.6	1,537,140	1,589,103	3.4
October	162,114	162,325	0.1	1,699,254	1,751,428	3.1
November	171,461	165,844	-3.3	1,870,715	1,917,272	2.5
December	188,022	196,320	4.4	2,058,737	2,113,592	2.7
Nonfat dry milk, human						
January	170,437	174,953	2.6	170,437	174,953	2.6
February	168,997	182,528	8.0	339,434	357,481	5.3
March	191,815	199,448	4.0	531,249	556,929	4.8
April	195,821	198,595	1.4	727,070	755,524	3.9
May	192,677	208,766	8.4	919,747	964,290	4.8
June	168,971	178,017	5.4	1,088,718	1,142,307	4.9
July	165,726	135,135	-18.5	1,254,444	1,277,442	1.8
August	133,625	110,809	-17.1	1,388,069	1,388,251	(Z)
September	122,804	100,666	-18.0	1,510,873	1,488,917	-1.5
October	129,037	127,425	-1.2	1,639,910	1,616,342	-1.4
November	160,743	115,702	-28.0	1,800,653	1,732,044	-3.8
December	167,711	146,409	-12.7	1,968,364	1,878,453	-4.6
Skim milk powder, total ³						
January	51,932	44,580	-14.2	51,932	44,580	-14.2
February	40,138	37,199	-7.3	92,070	81,779	-11.2
March	42,902	35,252	-17.8	134,972	117,031	-13.3
April	44,613	34,783	-22.0	179,585	151,814	-15.5
May	50,753	34,678	-31.7	230,338	186,492	-19.0
June	54,406	37,410	-31.2	284,744	223,902	-21.4
July	61,008	60,669	-0.6	345,752	284,571	-17.7
August	65,551	59,575	-9.1	411,303	344,146	-16.3
September	68,422	55,650	-18.7	479,725	399,796	-16.7
October	65,285	43,485	-33.4	545,010	443,281	-18.7
November	49,110	56,871	15.8	594,120	500,152	-15.8
December	63,766	48,300	-24.3	657,886	548,452	-16.6

See footnote(s) at end of table.

--continued

Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Dry whey, total ⁴						
January	72,766	76,713	5.4	72,766	76,713	5.4
February	68,293	66,824	-2.2	141,059	143,537	1.8
March	77,764	77,542	-0.3	218,823	221,079	1.0
April	79,446	79,592	0.2	298,269	300,671	0.8
May	79,205	81,777	3.2	377,474	382,448	1.3
June	80,062	84,544	5.6	457,536	466,992	2.1
July	84,287	87,861	4.2	541,823	554,853	2.4
August	75,314	82,826	10.0	617,137	637,679	3.3
September	75,792	76,792	1.3	692,929	714,471	3.1
October	75,348	74,316	-1.4	768,277	788,787	2.7
November	72,041	67,356	-6.5	840,318	856,143	1.9
December	74,930	70,381	-6.1	915,248	926,524	1.2
Lactose, human and animal						
January	94,587	88,959	-6.0	94,587	88,959	-6.0
February	84,943	82,682	-2.7	179,530	171,641	-4.4
March	93,521	98,547	5.4	273,051	270,188	-1.0
April	96,162	91,420	-4.9	369,213	361,608	-2.1
May	94,985	94,083	-0.9	464,198	455,691	-1.8
June	98,429	97,381	-1.1	562,627	553,072	-1.7
July	95,345	92,704	-2.8	657,972	645,776	-1.9
August	93,173	92,311	-0.9	751,145	738,087	-1.7
September	91,193	94,356	3.5	842,338	832,443	-1.2
October	91,462	90,060	-1.5	933,800	922,503	-1.2
November	88,620	84,931	-4.2	1,022,420	1,007,434	-1.5
December	89,419	90,904	1.7	1,111,839	1,098,338	-1.2
Whey protein concentrate, total						
January	38,640	41,517	7.4	38,640	41,517	7.4
February	35,081	37,173	6.0	73,721	78,690	6.7
March	36,764	42,501	15.6	110,485	121,191	9.7
April	36,914	41,663	12.9	147,399	162,854	10.5
May	36,329	43,829	20.6	183,728	206,683	12.5
June	36,215	42,401	17.1	219,943	249,084	13.2
July	36,463	42,053	15.3	256,406	291,137	13.5
August	35,120	39,932	13.7	291,526	331,069	13.6
September	38,654	39,688	2.7	330,180	370,757	12.3
October	39,326	39,548	0.6	369,506	410,305	11.0
November	39,907	40,443	1.3	409,413	450,748	10.1
December	41,708	42,142	1.0	451,121	492,890	9.3

See footnote(s) at end of table.

--continued

Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Cottage cheese, cream						
January	27,872	28,894	3.7	27,872	28,894	3.7
February	28,301	29,357	3.7	56,173	58,251	3.7
March	29,527	33,090	12.1	85,700	91,341	6.6
April	26,629	28,368	6.5	112,329	119,709	6.6
May	27,362	33,021	20.7	139,691	152,730	9.3
June	29,366	32,271	9.9	169,057	185,001	9.4
July	28,727	32,233	12.2	197,784	217,234	9.8
August	31,436	34,401	9.4	229,220	251,635	9.8
September	29,634	32,330	9.1	258,854	283,965	9.7
October	27,832	31,486	13.1	286,686	315,451	10.0
November	28,478	31,288	9.9	315,164	346,739	10.0
December	29,136	29,538	1.4	344,300	376,277	9.3
Cottage cheese, lowfat						
January	24,194	26,110	7.9	24,194	26,110	7.9
February	24,674	24,320	-1.4	48,868	50,430	3.2
March	26,571	25,899	-2.5	75,439	76,329	1.2
April	24,821	24,605	-0.9	100,260	100,934	0.7
May	23,930	28,066	17.3	124,190	129,000	3.9
June	24,359	27,307	12.1	148,549	156,307	5.2
July	24,826	29,280	17.9	173,375	185,587	7.0
August	27,427	32,495	18.5	200,802	218,082	8.6
September	25,420	31,564	24.2	226,222	249,646	10.4
October	23,911	29,659	24.0	250,133	279,305	11.7
November	22,035	25,996	18.0	272,168	305,301	12.2
December	21,858	26,013	19.0	294,026	331,314	12.7
Sour cream						
January	124,280	126,074	1.4	124,280	126,074	1.4
February	116,771	113,600	-2.7	241,051	239,674	-0.6
March	126,440	125,905	-0.4	367,491	365,579	-0.5
April	116,700	117,517	0.7	484,191	483,096	-0.2
May	125,804	127,349	1.2	609,995	610,445	0.1
June	123,165	127,333	3.4	733,160	737,778	0.6
July	115,623	117,830	1.9	848,783	855,608	0.8
August	127,030	123,536	-2.8	975,813	979,144	0.3
September	121,170	116,079	-4.2	1,096,983	1,095,223	-0.2
October	131,035	139,526	6.5	1,228,018	1,234,749	0.5
November	133,978	141,618	5.7	1,361,996	1,376,367	1.1
December	133,622	134,415	0.6	1,495,618	1,510,782	1.0

See footnote(s) at end of table.

--continued

Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Ice cream, regular hard						
January	54,581	52,963	-3.0	54,581	52,963	-3.0
February	54,354	58,382	7.4	108,935	111,345	2.2
March	66,216	66,245	(Z)	175,151	177,590	1.4
April	65,427	61,008	-6.8	240,578	238,598	-0.8
May	62,248	63,592	2.2	302,826	302,190	-0.2
June	66,973	67,211	0.4	369,799	369,401	-0.1
July	61,063	61,962	1.5	430,862	431,363	0.1
August	65,493	66,453	1.5	496,355	497,816	0.3
September	63,076	62,527	-0.9	559,431	560,343	0.2
October	59,468	57,432	-3.4	618,899	617,775	-0.2
November	54,126	49,837	-7.9	673,025	667,612	-0.8
December	53,665	47,724	-11.1	726,690	715,336	-1.6
Ice cream, lowfat total						
January	31,874	29,018	-9.0	31,874	29,018	-9.0
February	34,297	31,897	-7.0	66,171	60,915	-7.9
March	42,726	39,634	-7.2	108,897	100,549	-7.7
April	40,423	37,670	-6.8	149,320	138,219	-7.4
May	41,179	40,755	-1.0	190,499	178,974	-6.0
June	43,257	41,917	-3.1	233,756	220,891	-5.5
July	40,620	42,214	3.9	274,376	263,105	-4.1
August	42,693	40,681	-4.7	317,069	303,786	-4.2
September	37,344	33,374	-10.6	354,413	337,160	-4.9
October	35,656	32,293	-9.4	390,069	369,453	-5.3
November	29,075	26,969	-7.2	419,144	396,422	-5.4
December	27,182	23,965	-11.8	446,326	420,387	-5.8
Sherbet, hard						
January	1,833	1,971	7.5	1,833	1,971	7.5
February	2,003	2,308	15.2	3,836	4,279	11.5
March	2,614	1,969	-24.7	6,450	6,248	-3.1
April	1,991	2,047	2.8	8,441	8,295	-1.7
May	2,040	2,007	-1.6	10,481	10,302	-1.7
June	2,065	1,914	-7.3	12,546	12,216	-2.6
July	2,224	1,639	-26.3	14,770	13,855	-6.2
August	2,003	1,869	-6.7	16,773	15,724	-6.3
September	1,981	1,637	-17.4	18,754	17,361	-7.4
October	1,761	1,702	-21.2	20,915	19,063	-8.9
November	1,671	1,454	-13.0	22,586	20,517	-9.2
December	1,678	1,256	-25.1	24,264	21,773	-10.3

See footnote(s) at end of table.

--continued

Dairy Products Production by Product and Month – United States: 2022 and 2023 (continued)

Product and month	Monthly			Cumulative		
	2022	2023	Change from 2022	2022	2023	Change from 2022
	(1,000 pounds)	(1,000 pounds)	(percent)	(1,000 pounds)	(1,000 pounds)	(percent)
Yogurt, plain and flavored						
January	372,907	391,637	5.0	372,907	391,637	5.0
February	376,866	400,599	6.3	749,773	792,236	5.7
March	429,558	440,775	2.6	1,179,331	1,233,011	4.6
April	373,945	382,713	2.3	1,553,276	1,615,724	4.0
May	399,140	404,050	1.2	1,952,416	2,019,774	3.4
June	391,060	401,095	2.6	2,343,476	2,420,869	3.3
July	379,818	400,464	5.4	2,723,294	2,821,333	3.6
August	402,223	409,566	1.8	3,125,517	3,230,899	3.4
September	398,067	417,544	4.9	3,523,584	3,648,443	3.5
October	391,563	390,148	-0.4	3,915,147	4,038,591	3.2
November	337,045	352,983	4.7	4,252,192	4,391,574	3.3
December	371,368	368,963	-0.6	4,623,560	4,760,537	3.0
	(1,000 gallons)	(1,000 gallons)	(percent)	(1,000 gallons)	(1,000 gallons)	(percent)
Frozen yogurt, total						
January	2,765	3,467	25.4	2,765	3,467	25.4
February	3,711	4,340	16.9	6,476	7,807	20.6
March	4,066	3,296	-18.9	10,542	11,103	5.3
April	3,509	3,496	-0.4	14,051	14,599	3.9
May	4,764	4,374	-8.2	18,815	18,973	0.8
June	4,572	4,577	0.1	23,387	23,550	0.7
July	5,005	4,903	-2.0	28,392	28,453	0.2
August	3,940	4,217	7.0	32,332	32,670	1.0
September	3,115	2,962	-4.9	35,447	35,632	0.5
October	3,826	3,782	-1.2	39,273	39,414	0.4
November	2,664	2,596	-2.6	41,937	42,010	0.2
December	3,675	3,701	0.7	45,612	45,711	0.2

(Z) Less than half of the unit shown.

¹ Excludes Cottage Cheese.

² Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

³ Includes protein standardized and blends.

⁴ Excludes all modified dry whey products.

**Total Cheese Production Excluding Cottage Cheese – States, United States, and Regions:
December 2022 and 2023**

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	208,991	210,323	214,644	2.7	2.1
Idaho	86,478	76,766	88,750	2.6	15.6
Illinois	5,927	5,410	5,855	-1.2	8.2
Iowa	35,363	34,399	35,784	1.2	4.0
Minnesota	70,252	65,268	70,172	-0.1	7.5
New Jersey	5,967	5,684	6,157	3.2	8.3
New Mexico	83,452	76,360	89,839	7.7	17.7
New York	66,828	72,511	68,207	2.1	-5.9
Ohio	23,219	21,110	22,734	-2.1	7.7
Pennsylvania	39,896	36,530	38,073	-4.6	4.2
South Dakota	44,209	43,413	44,973	1.7	3.6
Vermont	12,909	12,011	12,242	-5.2	1.9
Wisconsin	298,496	291,903	300,409	0.6	2.9
Other States ¹	216,752	206,868	212,221	-2.1	2.6
United States	1,198,739	1,158,556	1,210,060	0.9	4.4
Atlantic	137,926	138,757	137,286	-0.5	-1.1
Central	587,435	566,392	587,316	(Z)	3.7
West	473,378	453,407	485,458	2.6	7.1

(Z) Less than half of the unit shown.

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

American Cheese Production – States, United States, and Regions: December 2022 and 2023

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	46,482	46,399	47,614	2.4	2.6
Iowa	19,026	18,586	18,172	-4.5	-2.2
Minnesota	59,665	55,577	59,057	-1.0	6.3
New York	12,353	11,305	13,137	6.3	16.2
Wisconsin	93,110	89,774	93,500	0.4	4.2
Other States ¹	255,072	239,227	256,583	0.6	7.3
United States	485,708	460,868	488,063	0.5	5.9
Atlantic	29,861	27,929	30,115	0.9	7.8
Central	266,901	253,665	261,953	-1.9	3.3
West	188,946	179,274	195,995	3.7	9.3

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Cheddar Cheese Production – States, United States, and Regions: December 2022 and 2023

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	23,940	19,679	17,256	-27.9	-12.3
Vermont	9,370	8,656	8,861	-5.4	2.4
Wisconsin	61,661	57,831	61,200	-0.7	5.8
Other States ¹	248,257	228,114	249,182	0.4	9.2
United States	343,228	314,280	336,499	-2.0	7.1
Atlantic	27,948	26,133	28,251	1.1	8.1
Central	183,953	166,064	178,844	-2.8	7.7
West	131,327	122,083	129,404	-1.5	6.0

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Total Italian Cheese Production – States, United States, and Regions: December 2022 and 2023

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	139,407	137,171	139,646	0.2	1.8
Minnesota	10,290	9,587	10,933	6.2	14.0
New Jersey	3,433	2,714	3,331	-3.0	22.7
New York	28,883	30,757	29,623	2.6	-3.7
Pennsylvania	24,969	21,696	23,231	-7.0	7.1
Wisconsin	141,532	141,262	144,149	1.8	2.0
Other States ¹	159,547	142,714	158,620	-0.6	11.1
United States	508,061	485,901	509,533	0.3	4.9
Atlantic	61,531	59,091	60,556	-1.6	2.5
Central	210,557	207,173	214,038	1.7	3.3
West	235,973	219,637	234,939	-0.4	7.0

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Mozzarella Cheese Production – States, United States, and Regions: December 2022 and 2023

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	128,547	126,297	129,784	1.0	2.8
New Jersey	1,502	1,250	1,450	-3.5	16.0
New York	13,208	13,895	14,727	11.5	6.0
Pennsylvania	20,907	17,378	19,112	-8.6	10.0
Wisconsin	88,472	91,621	93,200	5.3	1.7
Other States ¹	146,757	129,342	145,310	-1.0	12.3
United States	399,393	379,783	403,583	1.0	6.3
Atlantic	38,715	35,418	38,420	-0.8	8.5
Central	137,382	136,859	141,456	3.0	3.4
West	223,296	207,506	223,707	0.2	7.8

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Butter Production – States, United States, and Regions: December 2022 and 2023

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	58,908	51,630	59,480	1.0	15.2
Pennsylvania	7,943	6,752	8,418	6.0	24.7
Other States ¹	121,171	107,462	128,422	6.0	19.5
United States	188,022	165,844	196,320	4.4	18.4
Atlantic	16,243	11,981	16,531	1.8	38.0
Central	75,868	62,915	76,459	0.8	21.5
West	95,911	90,948	103,330	7.7	13.6

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Nonfat Dry Milk (Human) Production – States, United States, and Regions: December 2022 and 2023

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
California	75,904	43,156	62,770	-17.3	45.4
Pennsylvania	15,844	10,878	13,769	-13.1	26.6
Wisconsin	1,604	673	1,377	-14.2	104.6
Other States ¹	74,359	60,995	68,493	-7.9	12.3
United States	167,711	115,702	146,409	-12.7	26.5
Atlantic	29,060	20,557	26,696	-8.1	29.9
Central	32,701	24,920	30,545	-6.6	22.6
West	105,950	70,225	89,168	-15.8	27.0

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Dry Whey (Human) Production – States, United States, and Regions: December 2022 and 2023

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(percent)	(percent)
New York	10,630	10,855	11,093	4.4	2.2
Wisconsin	24,123	19,938	21,770	-9.8	9.2
Other States ¹	38,008	31,333	33,199	-12.7	6.0
United States	72,761	62,126	66,062	-9.2	6.3
Atlantic	21,335	19,731	21,338	(Z)	8.1
Central	34,702	29,872	32,147	-7.4	7.6
West	16,724	12,523	12,577	-24.8	0.4

(Z) Less than half of the unit shown.

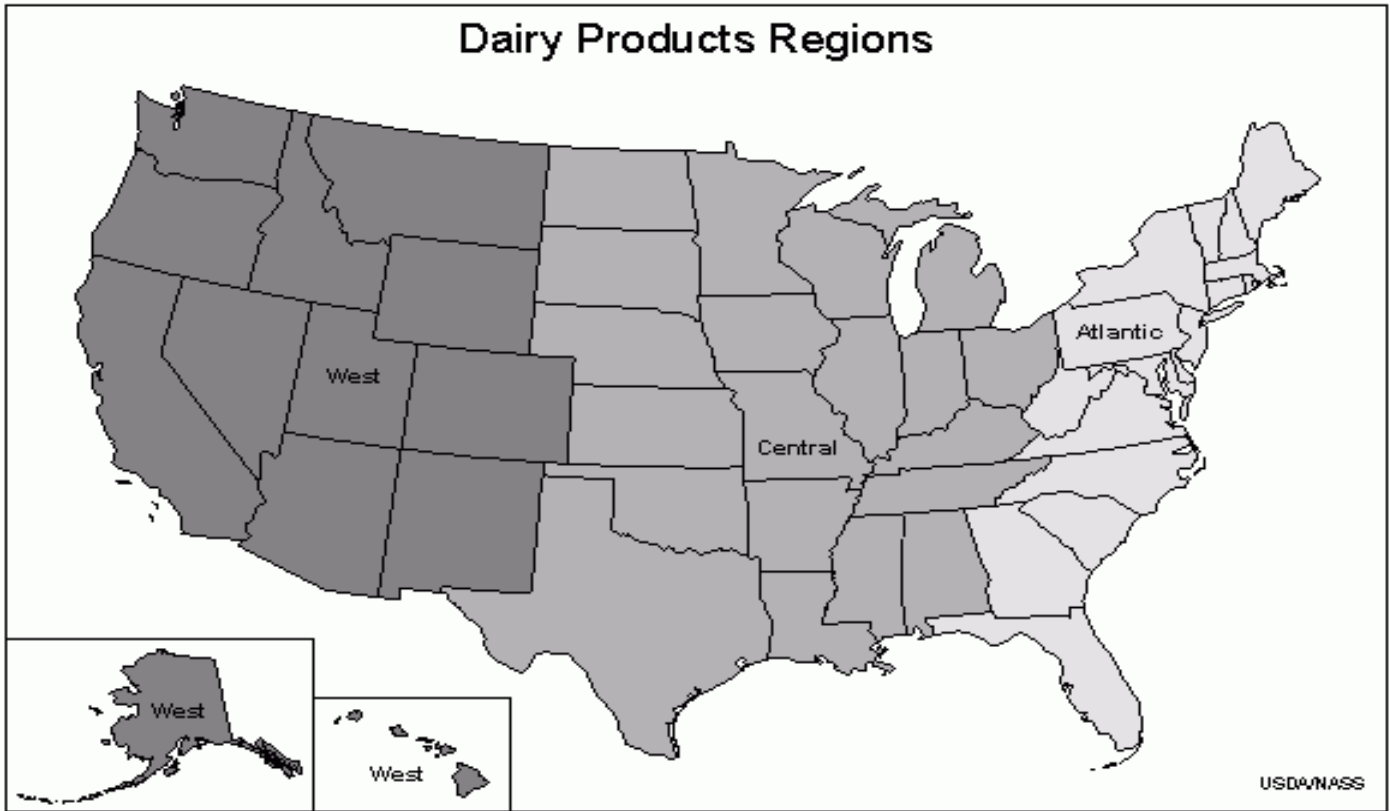
¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Ice Cream, Regular (Hard) Production – States, United States, and Regions: December 2022 and 2023

State and region	December 2022	November 2023	December 2023	Change from	
				December 2022	November 2023
	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)	(percent)	(percent)
California	4,300	5,561	4,860	13.0	-12.6
Connecticut	985	1,137	838	-14.9	-26.3
New York	1,547	1,742	1,732	12.0	-0.6
Ohio	2,173	1,983	1,721	-20.8	-13.2
Oregon	1,011	904	809	-20.0	-10.5
Pennsylvania	3,287	3,022	3,223	-1.9	6.7
Tennessee	1,528	2,035	1,468	-3.9	-27.9
Utah	1,150	1,162	1,006	-12.5	-13.4
Wisconsin	511	614	624	22.1	1.6
Other States ¹	37,173	31,677	31,443	-15.4	-0.7
United States	53,665	49,837	47,724	-11.1	-4.2
Atlantic	12,180	11,212	10,308	-15.4	-8.1
Central	33,404	29,291	28,587	-14.4	-2.4
West	8,081	9,334	8,829	9.3	-5.4

¹ States not shown when fewer than 3 plants reported or individual plant operations could be disclosed.

Dairy Products Regions



West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

Central: Alabama, Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Texas, Wisconsin.

Atlantic: Connecticut, Delaware, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, North Carolina, Rhode Island, South Carolina, Vermont, Virginia, West Virginia.

Statistical Methodology

Data Collection Period: Dairy products estimates are based upon survey data collected after the close of each month. Production data are provided by the firms producing dairy products.

Sampling frames and sample size: In 2022, there were 1,201 manufacturers that produced one or more dairy products. In states with small numbers of plants, reports are received from all plants each month. In states with large numbers of plants, survey procedures are designed to obtain monthly reports from all large plants and from a sample of small plants. In some states, the State Departments of Agriculture assist in collection of data, which eliminates duplicate reporting and reduces respondent burden.

Modes of data collection: Data are collected by mail, personal and telephone interviews, facsimile, and via electronic mail.

Terms and definitions: Firms complete the questionnaire using standard industry definitions and through the aid of instructions and definitions provided on the questionnaire.

Reliability: Data for the Dairy Products report are collected by a Census of all known manufacturers of dairy products in the United States. Firms producing large quantities of dairy products, along with a sample of smaller firms, are contacted monthly to collect previous month production data. Those small firms not contacted monthly are contacted after the close of the year to obtain previous year production. Production of products at small firms not contacted monthly are estimated during the monthly survey based upon check data, and state and national trends. Small firms are defined as those that do not make up a significant portion of the published total. Plants storing nonfat dry milk and dry whey are required under Federal law as defined in Public Laws 106-532 and 107-171 to complete the Dairy Products report. Plants storing these items are contacted monthly. Additionally, many state governments have mandated that dairy plants in their state complete the Dairy Products report each month. Because the Dairy Products survey is a census, sampling error should not affect the final estimates, however non-sampling errors are possible.

Estimating Procedures: In the Regional Field Office (RFO), data reported by firms are reviewed for reasonableness and consistency by comparing with data reported in prior months and by data reported by other firms in the State. Each RFO summarizes data at the Individual State level. State estimates are submitted to the Agricultural Statistics Board (ASB) along with supporting comments where they are compared with surrounding states, their region, and national trends. During both RFO and ASB review, plants are sometimes contacted again for further verification of numbers reported. After ASB review, RFO data are summarized into a National level summary.

Revision Policy: Monthly estimates are subject to revision the month following the preliminary estimates. Annual estimates are published in late April in the *Dairy Products Yearly Summary* report which includes any revisions made to previous 2 years of estimates. Revisions are generally due to plant data that are received too late to be included in the current report.

Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov.

Travis Averill, Chief, Livestock Branch	(202) 692-0069
Scott Hollis, Head, Livestock Section	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
Ryan Cowen – Cattle, Cattle on Feed	(202) 720-3040
Kim DaPra – Milk Production and Milk Cows	(512) 501-3266
Donnie Fike – Dairy Products	(202) 690-3347
Anthony Fischer – Hogs and Pigs.....	(202) 720-3106
Suzanne Richards – Sheep and Goats	(202) 720-4448

Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov.
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees, and applicants for employment on the basis of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases will apply to all programs and/or employment activities.)

If you wish to file a Civil Rights program complaint of discrimination, complete the [USDA Program Discrimination Complaint Form](#) (PDF), found online at www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.



USDA'S 100TH ANNUAL
**AGRICULTURAL
OUTLOOK FORUM**
CULTIVATING THE FUTURE

Hybrid
Event



February 15-16, 2024 • Crystal City Gateway Marriott, Arlington, VA

[Register to Attend In-Person or Virtually](#)

The Agricultural Outlook Forum

- USDA's largest annual gathering and the agricultural sector's premiere event
- Brings together more than 1,500 sector leaders and professionals to connect and discuss current and key emerging issues in agriculture
- More than 30 sessions covering commodity markets and outlook, international trade, agricultural policy, as well as cutting edge topics that will influence the future of agriculture



For More Information, please contact the Forum Coordinator [Mirvat Sewadeh](#) at 202-720-5447