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# WORLD DAIRY PRODUCTS

## World Butter and Cheese

Total world butter production increases 29.3% over the baseline, with India accounting for about 90% of the growth. India, one of the biggest milk producers in the world, continues to expand its milk production, with a 1.4% annual growth in cow milk production and a 3.1% annual growth in buffalo milk production. Buffalo milk is more valued because of its high fat content. Driven by rapidly growing domestic demand and strong world prices, Indian butter production increases 58.5%. Butter exports reach a record at the midterm of the baseline and then decrease as more production is absorbed by domestic markets. New Zealand, the EU, and Australia remain the world's largest butter exporters, supplying 90% of total butter trade at the end of the baseline. As New Zealand and Australian butter exports rise, EU net exports languish.

Russia, a leading importer in the world butter market, gradually increases its butter imports as well as its domestic production. Because the growth in consumption outpaces the growth in production, Russian butter imports increase throughout the baseline. Driven by economic growth and westernized diets, consumption grows steadily in Asia, especially in China.

Total world cheese production grows 18.2%, with the U.S. and the EU accounting for about 52.4%. Strong demand drives a 24.8% increase in world cheese trade over the decade. EU cheese exports decline because of strong domestic demand. Australia and New Zealand's combined cheese market share increases by 6.6% and reaches 49.2% at the end of the baseline. Argentina and Ukraine become increasingly important players in international cheese markets, together accounting for 9.1% of total exports by 2018.

Because of higher returns from cheese production and restricted milk supply, more milk is diverted from butter and NFD into cheese production in the EU. Cheese production rises 12.2% over the baseline, while butter and NFD production decrease. Australian and New Zealand cheese production increase 3.5% and 2.9% annually, respectively. Both Argentine and Brazilian cheese production increase 4.1% annually, respectively.

Russia and Japan are the leading cheese importers and account for 42.9% of total world imports on average. Sustained by economic and population growth, cheese imports of other Asian countries (China, Indonesia, Malaysia, Philippines, South Korea, Thailand, and Vietnam) increase by 2.6% annually. Mexican cheese imports rise 38.3% over the baseline.

**Butter Trade**

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Net Exporters</b>	(Thousand Metric Tons)										
Argentina	4	6	7	7	9	10	12	13	15	17	19
Australia	42	46	66	78	89	93	95	97	101	105	109
Canada	-5	2	0	0	0	0	0	2	5	9	11
Colombia	6	6	6	5	4	3	2	2	1	1	1
European Union	37	51	55	56	56	59	63	65	69	71	74
India	6	13	15	17	20	22	27	24	18	15	9
New Zealand	374	391	396	402	410	412	414	416	418	420	421
Ukraine	7	23	22	19	17	18	21	22	25	29	33
Uruguay	11	15	14	14	15	16	17	18	19	20	21
Total Net Exports *	577	589	620	646	676	695	717	730	743	762	775
<b>Net Importers</b>											
Algeria	12	14	13	13	13	13	14	14	15	15	16
Brazil	-3	-11	-13	-16	-20	-23	-26	-29	-32	-34	-36
China	36	37	42	45	48	51	53	55	57	60	61
Egypt	53	55	57	59	60	62	63	64	66	68	69
Indonesia	11	15	16	16	16	17	17	17	18	18	18
Japan	14	10	11	12	13	13	14	14	15	15	17
Malaysia	10	12	12	13	13	14	14	15	15	16	16
Mexico	58	64	66	65	63	61	61	60	60	60	60
Peru	0	0	1	1	0	0	0	0	0	0	0
Philippines	10	11	12	12	12	13	13	13	13	14	14
Russia	130	135	137	138	143	145	143	145	145	148	145
Saudi Arabia	36	40	45	49	50	52	54	55	56	57	58
South Korea	-4	2	3	5	6	6	6	7	7	8	8
Switzerland	3	3	3	4	4	3	3	2	2	1	1
Thailand	15	16	16	17	17	18	19	19	20	21	21
United States	-84	-25	-26	-32	-36	-38	-41	-41	-41	-41	-41
Venezuela	2	3	3	3	3	3	4	4	4	4	4
Vietnam	6	8	8	9	9	10	10	11	11	12	12
Rest of World	175	164	175	186	204	214	228	233	239	246	253
Total Net Imports	577	589	620	646	676	695	717	730	743	762	775
<b>Price</b>	(U.S. Dollars per Metric Ton)										
Oceania Export Price	3,649	1,942	1,780	1,807	1,854	1,890	1,935	2,010	2,058	2,093	2,135
FOB Price N. Europe	3,895	2,141	1,863	1,861	1,891	1,952	2,029	2,079	2,161	2,221	2,292

\* Total net exports are the sum of all positive net exports and negative net imports.

## Cheese Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Net Exporters</b>	(Thousand Metric Tons)										
Argentina	33	44	46	46	51	51	52	53	52	51	50
Australia	134	141	152	166	173	182	190	198	205	211	218
Colombia	4	4	4	5	5	5	5	6	6	7	7
European Union	425	412	397	393	389	384	382	383	379	377	374
New Zealand	302	325	338	360	372	381	390	395	399	404	410
Switzerland	36	25	21	20	20	21	23	24	25	26	26
Ukraine	65	71	80	79	73	70	69	76	82	87	92
Uruguay	20	19	20	22	23	25	26	27	28	29	30
Total Net Exports *	1,022	1,049	1,085	1,122	1,130	1,149	1,177	1,210	1,232	1,255	1,276
<b>Net Importers</b>											
Algeria	24	27	28	29	29	30	31	32	34	35	36
Brazil	-3	-9	-27	-30	-23	-30	-40	-48	-55	-61	-66
Canada	15	17	17	17	17	18	18	18	18	18	18
China	46	49	51	50	54	59	63	67	76	80	84
Egypt	4	1	4	4	4	4	8	12	14	17	20
Indonesia	9	10	10	10	11	11	11	12	12	12	13
Japan	205	210	215	220	223	224	226	226	227	227	227
Malaysia	8	9	9	10	10	11	11	11	12	12	13
Mexico	88	91	95	98	96	97	102	111	115	117	122
Peru	1	4	4	4	3	2	1	-1	-2	-2	-3
Philippines	9	13	14	14	14	15	15	16	16	17	17
Russia	260	259	265	267	272	278	279	281	287	296	297
Saudi Arabia	82	80	85	85	87	89	92	93	96	98	101
South Korea	52	54	62	61	59	58	60	61	62	64	66
Thailand	2	3	3	3	3	3	4	4	4	4	4
United States	40	96	95	85	80	78	76	75	74	73	72
Venezuela	12	9	6	5	5	7	7	9	9	10	11
Vietnam	1	2	2	2	2	2	2	2	2	2	2
Rest of World	164	116	120	158	160	163	173	180	174	173	173
Total Net Imports	1,022	1,049	1,085	1,122	1,130	1,149	1,177	1,210	1,232	1,255	1,276
<b>Price</b>	(U.S. Dollars per Metric Ton)										
Oceania Export Price	4,681	2,402	2,289	2,529	2,648	2,698	2,768	2,851	2,905	2,951	2,991
FOB Price N. Europe	4,963	2,480	2,356	2,619	2,748	2,802	2,879	2,969	3,027	3,078	3,121

\* Total net exports are the sum of all positive net exports and negative net imports.

## World Milk Powder

Over the next decade, world NFD and WMP production increase 16.1% and 21.2%, respectively. Milk powder production increases in most countries except the EU. Stimulated by strong import demand, especially from Asia, Australian and New Zealand NFD and WMP production increase steadily in the next decade. Total NFD and WMP volumes in the two countries increase 33.3% and 20.2%, respectively. As a by-product, India's NFD production grows 48%, creating excess supplies that allow Indian NFD exports to rise.

Argentina's dairy sector expands over the baseline. Its NFD and WMP production increase 7.7% and 3.7% annually, respectively. Rising production facilitates an increase in Argentine dairy exports. Improved domestic economic conditions and favorable government policies boost Brazilian dairy production. NFD and WMP production increase 93.2% and 40.5%, respectively, during the projection period, which enables Brazil to become a rising exporter in the world markets.

Australia, New Zealand, the EU, and the U.S. together captured about 88.3% of the NFD export market in 2008. Their combined market share stays at around 82% over the baseline, as there is a slight increase in NFD exports from other countries, including Argentina and Brazil. Asian countries, Algeria, and Mexico are major importers and increase their NFD imports over the projection period.

WMP trade grows 23.4% over the baseline. While EU WMP exports decrease by 14.3%, Australia, New Zealand, and Argentina expand their exports by 77.7%, 14.2%, and 46.8%, respectively. These three countries account for over 60% of total WMP exports by the end of baseline. Major importers Algeria, Saudi Arabia, and Malaysia steadily expand their WMP imports, accounting for over a quarter of world WMP imports.

Southeast Asia (Indonesia, Malaysia, Philippines, Thailand, and Vietnam) maintains strong NFD imports, accounting for 36% of the world total. China and Japan together account for about 9% of the NFD import market by the end of the baseline. Southeast Asian WMP imports rise 4% annually throughout the baseline and account for about 20% of world imports by 2018. Chinese WMP exports are negatively affected by the milk scandal for the next couple of years. Over the long run, as domestic WMP production expands and as consumers substitute more fluid milk for reconstituted milk powder, Chinese WMP exports increase slightly.

## Nonfat Dry Milk Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Net Exporters</b>	(Thousand Metric Tons)										
Argentina	13	21	22	22	25	26	27	30	32	34	36
Australia	119	143	167	180	191	194	196	199	204	210	217
Canada	11	12	14	13	10	8	7	7	9	11	11
Colombia	3	2	2	2	2	1	1	1	0	0	-1
European Union	175	181	184	190	198	199	201	204	207	208	209
India	39	54	57	59	60	61	66	69	74	78	84
New Zealand	272	302	309	315	324	327	329	332	334	337	339
Switzerland	9	13	12	11	11	11	11	11	11	11	11
Ukraine	40	58	53	47	43	40	37	37	36	36	35
United States	385	170	190	233	255	306	329	352	368	384	400
Uruguay	13	14	15	14	16	17	18	20	21	22	23
Total Net Exports *	1,077	982	1,038	1,108	1,168	1,231	1,268	1,310	1,347	1,383	1,415
<b>Net Importers</b>											
Algeria	91	86	90	95	100	106	111	117	124	130	137
Brazil	5	-12	-15	-22	-34	-41	-45	-49	-51	-51	-50
China	40	43	46	51	52	57	61	65	69	74	79
Egypt	31	32	32	33	34	35	35	36	37	37	38
Indonesia	154	142	148	154	159	164	168	173	177	182	186
Japan	35	36	36	37	37	37	38	39	40	40	41
Malaysia	58	59	62	65	67	70	73	76	79	82	85
Mexico	198	192	205	217	220	226	232	235	238	242	248
Peru	7	7	8	8	8	8	8	8	8	8	9
Philippines	70	74	79	82	83	85	87	89	91	93	95
Russia	40	37	40	39	40	42	42	43	42	43	41
Saudi Arabia	23	26	29	31	33	36	39	42	44	47	50
South Korea	4	4	3	3	2	3	4	3	5	5	5
Thailand	77	74	78	81	82	85	88	91	94	97	100
Venezuela	7	7	7	7	7	8	8	8	8	8	8
Vietnam	25	24	26	27	28	31	33	35	37	40	42
Rest of World	211	138	150	178	215	238	241	250	254	254	250
Total Net Imports	1,077	982	1,038	1,108	1,168	1,231	1,268	1,310	1,347	1,383	1,415
<b>Price</b>	(U.S. Dollars per Metric Ton)										
Oceania Export Price	3,330	1,967	1,814	1,975	2,147	2,178	2,235	2,324	2,401	2,472	2,526
FOB Price N. Europe	3,246	2,103	1,975	2,110	2,254	2,280	2,328	2,402	2,467	2,526	2,572

\* Total net exports are the sum of all positive net exports and negative net imports.

## Whole Milk Powder Trade

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Net Exporters</b>	(Thousand Metric Tons)										
Argentina	122	140	148	149	151	151	157	162	168	174	179
Australia	99	97	106	113	125	136	144	151	160	168	175
Canada	0	0	0	0	0	0	0	0	0	0	0
Colombia	35	24	22	18	12	4	-2	-4	-6	-8	-11
European Union	399	396	379	364	356	351	348	348	348	346	342
New Zealand	666	666	694	708	717	727	736	745	750	756	760
Ukraine	23	25	26	26	27	28	29	31	32	34	35
Uruguay	21	20	19	20	22	24	25	27	29	31	34
Total Net Exports *	1,438	1,472	1,505	1,533	1,571	1,596	1,630	1,672	1,712	1,745	1,774
<b>Net Importers</b>											
Algeria	179	182	187	191	195	200	205	209	214	219	224
Brazil	-55	-95	-95	-104	-119	-131	-141	-152	-161	-167	-171
China	-18	-10	-17	-31	-42	-45	-49	-56	-64	-70	-77
Egypt	38	42	43	45	46	48	50	52	53	55	57
Indonesia	44	37	40	41	44	45	46	48	50	51	53
Malaysia	97	101	104	106	109	113	115	118	121	124	126
Mexico	8	11	16	20	20	18	18	19	19	23	27
Peru	13	16	17	16	17	18	18	19	19	20	21
Philippines	14	15	17	18	19	21	22	24	26	28	31
Russia	30	32	32	26	22	22	20	18	17	16	15
Saudi Arabia	95	108	113	114	118	121	124	126	128	131	135
South Korea	1	3	4	4	4	4	4	4	4	4	4
Thailand	39	42	42	43	45	46	48	49	50	52	53
Venezuela	93	95	93	92	93	92	92	92	92	91	91
Vietnam	40	44	48	51	56	60	65	70	75	80	85
Rest of World	746	745	750	766	783	788	801	821	838	843	840
Total Net Imports	1,438	1,472	1,505	1,533	1,571	1,596	1,630	1,672	1,712	1,745	1,774
<b>Price</b>	(U.S. Dollars per Metric Ton)										
Oceania Export Price	3,913	1,973	1,857	2,029	2,154	2,205	2,277	2,363	2,443	2,504	2,547
FOB Price N. Europe	3,999	2,101	1,988	2,184	2,225	2,283	2,365	2,462	2,553	2,621	2,671

\* Total net exports are the sum of all positive net exports and negative net imports.

## U.S. Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	(Thousand Head)										
Milk Cow Numbers	9,271	9,221	9,044	8,940	8,907	8,884	8,866	8,854	8,851	8,855	8,870
	(Kilograms)										
Milk Production per Cow	9,281	9,317	9,502	9,690	9,840	9,979	10,113	10,246	10,376	10,504	10,630
	(Thousand Metric Tons)										
Cow Milk Production	86,046	85,913	85,938	86,621	87,641	88,646	89,659	90,714	91,832	93,014	94,294
Fluid Milk Consumption	28,243	29,075	28,929	28,762	28,788	28,854	28,950	29,059	29,168	29,284	29,422
Other Disappearance	57,803	56,839	57,009	57,860	58,854	59,792	60,709	61,654	62,665	63,729	64,872
<b>Butter</b>											
Production	744	696	701	714	721	728	733	735	737	740	742
Beginning Stocks	70	54	56	51	51	52	52	53	53	53	53
Domestic Supply	814	751	757	765	772	779	785	788	790	793	796
Consumption	676	670	680	682	684	689	692	695	696	699	701
Shipments	0	0	0	0	0	0	0	0	0	0	0
Ending Stocks	54	56	51	51	52	52	53	53	53	53	53
Domestic Use	731	726	731	733	736	742	745	748	750	752	755
Net Trade	84	25	26	32	36	38	41	41	41	41	41
<b>Cheese</b>											
Production	4,462	4,469	4,525	4,598	4,689	4,757	4,822	4,885	4,952	5,023	5,099
Beginning Stocks	362	377	411	401	397	403	412	419	425	431	438
Domestic Supply	4,825	4,845	4,936	4,999	5,086	5,161	5,234	5,303	5,377	5,454	5,537
Consumption	4,488	4,531	4,630	4,686	4,763	4,827	4,891	4,953	5,019	5,089	5,164
Shipments	29	29	29	29	29	29	29	29	29	29	29
Ending Stocks	377	411	401	397	403	412	419	425	431	438	445
Domestic Use	4,894	4,970	5,060	5,112	5,195	5,267	5,338	5,407	5,479	5,555	5,637
Net Trade	-40	-96	-95	-85	-80	-78	-76	-75	-74	-73	-72
<b>Nonfat Dry Milk</b>											
Production	828	669	653	695	714	739	765	794	827	860	897
Beginning Stocks	72	91	146	122	48	49	51	53	55	57	59
Domestic Supply	900	760	799	816	762	788	816	847	881	917	956
Consumption	425	443	488	535	458	431	434	440	456	474	494
Shipments	0	0	0	0	0	0	0	0	0	0	0
Ending Stocks	91	146	122	48	49	51	53	55	57	59	62
Domestic Use	515	590	609	583	507	482	487	495	513	533	556
Net Trade	385	170	190	233	255	306	329	352	368	384	400
<b>Prices</b>											
	(U.S. Dollars per Metric Ton)										
All Milk	404	286	314	353	364	368	372	378	385	391	398
Butter Wholesale	3,226	2,729	3,009	3,318	3,377	3,415	3,418	3,505	3,602	3,709	3,818
Cheese Wholesale	4,091	3,021	3,325	3,679	3,763	3,765	3,791	3,841	3,896	3,949	4,002
Nonfat Dry Milk Wholesale	2,865	1,868	1,876	2,145	2,258	2,310	2,389	2,438	2,485	2,531	2,577

## Algerian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	956	1,011	1,057	1,073	1,086	1,115	1,147	1,165	1,181	1,202	1,235
					(Kilograms)						
Milk Production per Cow	1,300	1,330	1,345	1,360	1,375	1,390	1,405	1,420	1,435	1,450	1,465
					(Thousand Metric Tons)						
Cow Milk Production	1,243	1,345	1,422	1,460	1,493	1,550	1,611	1,655	1,694	1,743	1,809
Fluid Milk Consumption	1,465	1,483	1,500	1,518	1,536	1,554	1,572	1,589	1,607	1,624	1,641
Manufacturing Use	118	107	107	110	112	113	115	116	117	118	119
<b>Butter</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Supply	1	1	1	1	1	1	1	1	1	1	1
Consumption	12	14	13	13	13	13	14	14	15	15	16
Ending Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	13	15	14	14	14	14	15	15	16	16	17
Net Trade	-12	-14	-13	-13	-13	-13	-14	-14	-15	-15	-16
<b>Cheese</b>											
Production	13	12	12	12	12	12	13	13	13	13	13
Beginning Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Supply	14	13	13	13	13	13	14	14	14	14	14
Consumption	37	39	40	41	42	43	44	45	47	48	49
Ending Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	38	40	41	42	43	44	45	46	48	49	50
Net Trade	-24	-27	-28	-29	-29	-30	-31	-32	-34	-35	-36
<b>Nonfat Dry Milk</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	8	15	15	15	15	15	15	15	15	15	15
Domestic Supply	8	15	15	15	15	15	15	15	15	15	15
Consumption	84	86	90	95	100	106	111	117	124	130	137
Ending Stocks	15	15	15	15	15	15	15	15	15	15	15
Domestic Use	99	101	105	110	115	121	126	132	139	145	152
Net Trade	-91	-86	-90	-95	-100	-106	-111	-117	-124	-130	-137
<b>Whole Milk Powder</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	9	8	8	8	8	8	8	8	8	8	8
Domestic Supply	9	8	8	8	8	8	8	8	8	8	8
Consumption	180	182	187	191	195	200	205	209	214	219	224
Ending Stocks	8	8	8	8	8	8	8	8	8	8	8
Domestic Use	188	190	195	199	203	208	213	217	222	227	232
Net Trade	-179	-182	-187	-191	-195	-200	-205	-209	-214	-219	-224

## Argentine Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	2,150	2,204	2,243	2,290	2,342	2,391	2,441	2,492	2,543	2,596	2,649
					(Kilograms)						
Milk Production per Cow	4,698	4,838	4,903	4,968	5,033	5,098	5,163	5,228	5,293	5,358	5,423
					(Thousand Metric Tons)						
Cow Milk Production	10,100	10,664	10,998	11,377	11,786	12,191	12,600	13,026	13,460	13,909	14,367
Fluid Milk Consumption	1,950	2,004	2,030	2,048	2,075	2,113	2,153	2,194	2,239	2,285	2,334
Manufacturing Use	8,124	8,635	8,941	9,303	9,685	10,051	10,421	10,805	11,195	11,599	12,007
<b>Butter</b>											
Production	45	52	53	54	56	57	59	61	63	65	67
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	47	52	53	54	56	57	59	61	63	65	67
Consumption	44	46	46	47	47	47	47	48	48	48	49
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	44	46	46	47	47	47	47	48	48	48	49
Net Trade	4	6	7	7	9	10	12	13	15	17	19
<b>Cheese</b>											
Production	540	600	618	628	653	676	701	727	753	779	806
Beginning Stocks	35	52	52	52	52	52	52	52	52	52	52
Domestic Supply	575	652	670	680	705	728	753	779	805	831	858
Consumption	490	556	572	582	601	625	649	674	701	728	756
Ending Stocks	52	52	52	52	52	52	52	52	52	52	52
Domestic Use	542	608	624	634	653	677	701	726	753	780	808
Net Trade	33	44	46	46	51	51	52	53	52	51	50
<b>Nonfat Dry Milk</b>											
Production	25	33	34	35	37	39	41	44	47	49	53
Beginning Stocks	5	8	8	8	8	8	8	8	8	8	8
Domestic Supply	30	41	42	43	45	47	49	52	55	57	61
Consumption	9	12	13	13	13	13	14	14	15	16	16
Ending Stocks	8	8	8	8	8	8	8	8	8	8	8
Domestic Use	17	20	21	21	21	21	22	22	23	24	24
Net Trade	13	21	22	22	25	26	27	30	32	34	36
<b>Whole Milk Powder</b>											
Production	217	211	227	237	243	251	263	275	288	301	313
Beginning Stocks	32	60	60	60	60	60	60	60	60	60	60
Domestic Supply	249	271	287	297	303	311	323	335	348	361	373
Consumption	67	72	79	87	93	100	106	113	120	127	134
Ending Stocks	60	60	60	60	60	60	60	60	60	60	60
Domestic Use	127	132	139	147	153	160	166	173	180	187	194
Net Trade	122	140	148	149	151	151	157	162	168	174	179

## Australian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	1,765	1,812	1,819	1,854	1,899	1,951	2,005	2,060	2,117	2,175	2,232
					(Kilograms)						
Milk Production per Cow	5,442	5,279	5,325	5,377	5,432	5,481	5,530	5,582	5,632	5,681	5,729
					(Thousand Metric Tons)						
Cow Milk Production	9,605	9,563	9,687	9,970	10,314	10,695	11,091	11,501	11,925	12,354	12,786
Fluid Milk Consumption	2,213	2,272	2,299	2,322	2,345	2,367	2,389	2,410	2,431	2,453	2,474
Manufacturing Use	7,326	7,224	7,322	7,580	7,902	8,261	8,635	9,024	9,426	9,834	10,245
<b>Butter</b>											
Production	112	128	137	149	159	163	165	168	172	176	181
Beginning Stocks	9	14	29	33	36	36	37	37	37	37	37
Domestic Supply	121	142	167	182	194	200	202	205	209	213	218
Consumption	65	67	68	69	69	70	70	70	71	71	72
Ending Stocks	14	29	33	36	36	37	37	37	37	37	38
Domestic Use	79	96	101	104	105	106	107	107	108	109	109
Net Trade	42	46	66	78	89	93	95	97	101	105	109
<b>Cheese</b>											
Production	347	362	381	399	412	426	439	452	464	476	489
Beginning Stocks	17	15	14	14	13	13	13	12	12	12	12
Domestic Supply	364	376	395	413	425	439	452	464	476	489	501
Consumption	215	222	229	234	239	244	249	254	259	265	270
Ending Stocks	15	14	14	13	13	13	12	12	12	12	13
Domestic Use	230	236	243	247	252	257	262	266	272	277	283
Net Trade	134	141	152	166	173	182	190	198	205	211	218
<b>Nonfat Dry Milk</b>											
Production	179	207	222	234	243	246	248	250	256	263	270
Beginning Stocks	38	51	65	69	72	73	74	75	75	76	78
Domestic Supply	217	258	287	304	315	319	322	325	331	339	347
Consumption	47	50	51	51	51	51	51	51	51	51	51
Ending Stocks	51	65	69	72	73	74	75	75	76	78	79
Domestic Use	98	115	120	123	124	125	126	126	127	129	130
Net Trade	119	143	167	180	191	194	196	199	204	210	217
<b>Whole Milk Powder</b>											
Production	127	130	140	148	160	172	180	188	197	206	214
Beginning Stocks	22	21	21	21	21	21	21	21	21	21	21
Domestic Supply	149	150	160	169	181	193	201	209	218	227	235
Consumption	30	33	34	35	35	36	37	37	38	39	39
Ending Stocks	21	21	21	21	21	21	21	21	21	21	21
Domestic Use	50	54	55	55	56	57	57	58	58	59	60
Net Trade	99	97	106	113	125	136	144	151	160	168	175
<b>Milk Farm Prices</b>											
					(Australian Cents per Hectoliter)						
Fluid Milk Average	50	34	33	34	34	35	36	37	37	38	38
Retail Milk	254	174	168	171	175	177	180	184	187	190	192
<b>Export Prices</b>											
					(Australian Dollars per Metric Ton)						
Butter	4,119	2,586	2,359	2,254	2,273	2,322	2,381	2,479	2,543	2,590	2,646
Cheese	5,284	3,199	3,034	3,154	3,247	3,315	3,407	3,516	3,588	3,652	3,707
NFD	3,759	2,620	2,404	2,463	2,633	2,676	2,751	2,865	2,966	3,059	3,132
WMP	4,417	2,628	2,461	2,530	2,641	2,709	2,803	2,914	3,018	3,098	3,157

## Brazilian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	(Thousand Head)										
Milk Cow Numbers	16,700	16,984	17,108	17,191	17,354	17,472	17,612	17,718	17,813	17,897	17,977
	(Kilograms)										
Milk Production per Cow	1,730	1,777	1,845	1,923	1,996	2,069	2,142	2,216	2,290	2,363	2,437
	(Thousand Metric Tons)										
Cow Milk Production	28,890	30,181	31,565	33,055	34,634	36,147	37,726	39,261	40,783	42,297	43,811
Fluid Milk Consumption	10,674	11,407	12,062	12,304	12,785	13,343	13,880	14,412	14,988	15,583	16,202
Manufacturing Use	17,658	18,206	18,932	20,176	21,268	22,221	23,258	24,256	25,200	26,116	27,008
<b>Butter</b>											
Production	84	94	98	101	106	110	114	118	121	124	128
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	84	94	98	101	106	110	114	118	121	124	128
Consumption	81	83	85	85	86	87	88	89	90	91	92
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	81	83	85	85	86	87	88	89	90	91	92
Net Trade	3	11	13	16	20	23	26	29	32	34	36
<b>Cheese</b>											
Production	630	674	733	760	786	811	838	864	889	913	938
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	630	674	733	760	786	811	838	864	889	913	938
Consumption	627	665	706	731	763	781	798	815	833	852	872
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	627	665	706	731	763	781	798	815	833	852	872
Net Trade	3	9	27	30	23	30	40	48	55	61	66
<b>Nonfat Dry Milk</b>											
Production	133	160	168	179	198	211	223	234	243	250	257
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	133	160	168	179	198	211	223	234	243	250	257
Consumption	138	148	153	158	163	171	178	185	192	199	207
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	138	148	153	158	163	171	178	185	192	199	207
Net Trade	-5	12	15	22	34	41	45	49	51	51	50
<b>Whole Milk Powder</b>											
Production	580	644	663	681	707	729	749	767	784	800	815
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	580	644	663	681	707	729	749	767	784	800	815
Consumption	525	550	568	577	588	599	607	615	623	632	644
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	525	550	568	577	588	599	607	615	623	632	644
Net Trade	55	95	95	104	119	131	141	152	161	167	171

## Canadian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	985	980	978	966	953	942	931	924	919	913	904
					(Kilograms)						
Milk Production per Cow	8,396	8,509	8,621	8,734	8,848	8,960	9,073	9,185	9,298	9,410	9,523
					(Thousand Metric Tons)						
Cow Milk Production	8,270	8,338	8,432	8,434	8,430	8,443	8,450	8,484	8,544	8,594	8,611
Fluid Milk Consumption	3,145	3,166	3,163	3,167	3,168	3,168	3,166	3,163	3,160	3,157	3,154
Manufacturing Use	4,735	4,784	4,882	4,885	4,885	4,903	4,916	4,957	5,022	5,077	5,100
<b>Butter</b>											
Production	84	82	84	85	85	84	84	86	88	91	92
Beginning Stocks	11	15	12	13	13	13	13	13	13	12	12
Domestic Supply	95	97	97	97	97	97	96	98	100	103	104
Consumption	85	83	84	84	84	84	84	84	83	82	81
Ending Stocks	15	12	13	13	13	13	13	13	12	12	12
Domestic Use	100	96	96	97	97	97	97	96	95	94	93
Net Trade	-5	2	0	0	0	0	0	2	5	9	11
<b>Cheese</b>											
Production	306	310	312	317	322	327	332	338	343	347	352
Beginning Stocks	68	70	70	74	73	73	74	73	73	73	73
Domestic Supply	374	380	383	391	396	400	406	411	415	420	425
Consumption	319	321	336	339	343	347	348	348	351	356	361
Ending Stocks	70	70	74	73	73	74	73	73	73	73	74
Domestic Use	389	391	410	413	416	421	421	421	424	430	434
Net Trade	-15	-17	-17	-17	-17	-18	-18	-18	-18	-18	-18
<b>Nonfat Dry Milk</b>											
Production	83	83	85	84	83	83	82	84	88	92	92
Beginning Stocks	20	41	43	43	43	42	42	42	43	43	44
Domestic Supply	103	124	128	127	125	125	125	126	130	135	136
Consumption	51	69	71	72	73	74	76	77	78	80	81
Ending Stocks	41	43	43	43	42	42	42	43	43	44	44
Domestic Use	92	112	114	115	116	117	118	120	122	124	125
Net Trade	11	12	14	13	10	8	7	7	9	11	11
<b>Prices</b>											
					(Canadian Dollars per Hectoliter)						
Industrial Milk, Target	72.94	74.50	76.13	77.79	79.48	81.24	83.03	84.85	86.72	88.62	90.56
Fluid Milk	84.33	78.00	79.48	81.00	82.55	84.16	85.79	87.46	89.17	90.91	92.68
					(Canadian Dollars per Kilogram)						
Butter Support	6.99	7.10	7.23	7.35	7.48	7.61	7.74	7.88	8.01	8.15	8.30
NFD Support	6.05	6.18	6.31	6.45	6.59	6.73	6.87	7.02	7.17	7.32	7.48

## Chinese Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	(Thousand Head)										
Milk Cow Numbers	18,220	19,137	19,531	19,813	20,044	20,214	20,341	20,441	20,524	20,593	20,651
	(Kilograms)										
Milk Production per Cow	2,074	2,179	2,244	2,338	2,412	2,489	2,570	2,654	2,737	2,819	2,901
	(Thousand Metric Tons)										
Cow Milk Production	37,790	41,695	43,823	46,320	48,351	50,305	52,270	54,249	56,177	58,049	59,902
Fluid Milk Consumption	11,762	14,217	15,540	16,544	17,899	19,265	20,626	22,017	23,422	24,953	26,597
Manufacturing Use	25,469	26,784	27,528	28,952	29,578	30,122	30,684	31,231	31,717	32,025	32,202
<b>Butter</b>											
Production	97	103	107	108	111	113	116	118	120	123	125
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	97	103	107	108	111	113	116	118	120	123	125
Consumption	133	140	149	154	159	164	169	173	178	182	187
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	133	140	149	154	159	164	169	173	178	182	187
Net Trade	-36	-37	-42	-45	-48	-51	-53	-55	-57	-60	-61
<b>Cheese</b>											
Production	248	262	271	279	285	290	296	305	309	313	317
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	248	262	271	279	285	290	296	305	309	313	317
Consumption	294	311	321	330	339	349	359	373	385	393	402
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	294	311	321	330	339	349	359	373	385	393	402
Net Trade	-46	-49	-51	-50	-54	-59	-63	-67	-76	-80	-84
<b>Nonfat Dry Milk</b>											
Production	56	67	73	76	80	84	88	92	96	101	105
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	56	67	73	76	80	84	88	92	96	101	105
Consumption	96	111	119	127	133	141	149	157	166	175	184
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	96	111	119	127	133	141	149	157	166	175	184
Net Trade	-40	-43	-46	-51	-52	-57	-61	-65	-69	-74	-79
<b>Whole Milk Powder</b>											
Production	1,198	1,215	1,258	1,304	1,355	1,394	1,438	1,492	1,536	1,575	1,613
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1,198	1,215	1,258	1,304	1,355	1,394	1,438	1,492	1,536	1,575	1,613
Consumption	1,180	1,206	1,242	1,273	1,313	1,349	1,389	1,436	1,472	1,504	1,537
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1,180	1,206	1,242	1,273	1,313	1,349	1,389	1,436	1,472	1,504	1,537
Net Trade	18	10	17	31	42	45	49	56	64	70	77

## Colombian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	7,006	7,061	7,075	7,115	7,172	7,231	7,282	7,359	7,425	7,487	7,545
					(Kilograms)						
Milk Production per Cow	1,006	1,013	1,018	1,021	1,028	1,036	1,043	1,053	1,062	1,072	1,082
					(Thousand Metric Tons)						
Cow Milk Production	7,048	7,155	7,206	7,261	7,374	7,489	7,598	7,748	7,888	8,029	8,165
Fluid Milk Consumption	4,506	4,595	4,708	4,851	4,982	5,111	5,227	5,342	5,455	5,567	5,684
Manufacturing Use	1,894	1,868	1,895	1,902	1,914	1,882	1,868	1,894	1,916	1,937	1,950
<b>Butter</b>											
Production	28	29	30	29	29	29	29	29	29	29	29
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	28	29	30	29	29	29	29	29	29	29	29
Consumption	22	23	24	25	25	26	27	27	28	28	29
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	22	23	24	25	25	26	27	27	28	28	29
Net Trade	6	6	6	5	4	3	2	2	1	1	1
<b>Cheese</b>											
Production	63	64	66	69	71	73	76	78	81	83	85
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	63	64	66	69	71	73	76	78	81	83	85
Consumption	59	61	62	64	66	68	70	72	74	76	78
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	59	61	62	64	66	68	70	72	74	76	78
Net Trade	4	4	4	5	5	5	5	6	6	7	7
<b>Nonfat Dry Milk</b>											
Production	12	13	13	12	13	12	12	12	11	10	10
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	12	13	13	12	13	12	12	12	11	10	10
Consumption	9	10	10	11	11	11	11	11	11	11	11
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	9	10	10	11	11	11	11	11	11	11	11
Net Trade	3	2	2	2	2	1	1	1	0	0	-1
<b>Whole Milk Powder</b>											
Production	104	96	96	96	95	90	87	88	88	88	87
Beginning Stocks	8	8	8	8	8	8	8	8	8	8	8
Domestic Supply	112	104	104	104	103	98	95	96	96	96	95
Consumption	69	72	74	79	83	86	89	92	94	96	98
Ending Stocks	8	8	8	8	8	8	8	8	8	8	8
Domestic Use	77	80	82	87	91	94	97	100	102	104	106
Net Trade	35	24	22	18	12	4	-2	-4	-6	-8	-11





## Indian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	(Thousand Head)										
Milk Cow Numbers	38,375	38,754	39,135	39,519	39,904	40,291	40,679	41,068	41,457	41,846	42,235
	(Kilograms)										
Milk Production per Cow	1,141	1,148	1,154	1,159	1,164	1,169	1,174	1,179	1,184	1,189	1,194
	(Thousand Metric Tons)										
Cow Milk Production	43,798	44,501	45,176	45,808	46,455	47,108	47,764	48,424	49,089	49,760	50,434
Buffalo Milk Production	60,478	62,666	65,286	67,161	69,061	71,070	73,106	75,171	77,394	79,649	81,936
Total Milk Production	104,275	107,168	110,462	112,968	115,516	118,178	120,870	123,595	126,483	129,408	132,370
Fluid Milk Consumption	43,584	46,373	48,626	49,822	51,083	52,389	53,700	55,039	56,400	57,790	59,181
Manufacturing Use	60,686	60,789	61,830	63,141	64,428	65,783	67,164	68,551	70,077	71,613	73,183
<b>Butter</b>											
Production	3,611	4,078	4,326	4,479	4,672	4,846	5,021	5,207	5,384	5,577	5,723
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	3,611	4,078	4,326	4,479	4,672	4,846	5,021	5,207	5,384	5,577	5,723
Consumption	3,605	4,065	4,310	4,461	4,652	4,824	4,994	5,183	5,366	5,561	5,713
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	3,605	4,065	4,310	4,461	4,652	4,824	4,994	5,183	5,366	5,561	5,713
Net Trade	6	13	15	17	20	22	27	24	18	15	9
<b>Nonfat Dry Milk</b>											
Production	339	371	388	397	406	419	434	449	466	483	501
Beginning Stocks	13	15	10	10	10	10	10	10	10	10	10
Domestic Supply	351	386	398	407	416	429	444	459	476	493	511
Consumption	298	322	332	338	347	358	368	380	392	405	417
Ending Stocks	15	10	10	10	10	10	10	10	10	10	10
Domestic Use	313	332	342	348	357	368	378	390	402	415	427
Net Trade	39	54	57	59	60	61	66	69	74	78	84

## Indonesian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	379	388	398	400	407	418	426	434	443	452	460
					(Kilograms)						
Milk Production per Cow	1,587	1,603	1,622	1,626	1,642	1,657	1,670	1,684	1,699	1,712	1,726
					(Thousand Metric Tons)						
Cow Milk Production	601	621	645	650	669	693	712	731	753	774	794
Fluid Milk Consumption	349	357	374	381	389	398	407	415	424	433	442
Manufacturing Use	618	636	649	652	670	691	708	724	743	761	778
<b>Butter</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	11	15	16	16	16	17	17	17	18	18	18
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	11	15	16	16	16	17	17	17	18	18	18
Net Trade	-11	-15	-16	-16	-16	-17	-17	-17	-18	-18	-18
<b>Cheese</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	9	10	10	10	11	11	11	12	12	12	13
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	9	10	10	10	11	11	11	12	12	12	13
Net Trade	-9	-10	-10	-10	-11	-11	-11	-12	-12	-12	-13
<b>Nonfat Dry Milk</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	9	7	7	7	7	7	7	7	7	7	7
Domestic Supply	9	7	7	7	7	7	7	7	7	7	7
Consumption	156	142	148	154	159	164	168	173	177	182	186
Ending Stocks	7	7	7	7	7	7	7	7	7	7	7
Domestic Use	163	149	155	161	166	171	175	180	184	189	193
Net Trade	-154	-142	-148	-154	-159	-164	-168	-173	-177	-182	-186
<b>Whole Milk Powder</b>											
Production	48	52	53	56	56	58	60	62	64	66	68
Beginning Stocks	5	6	6	6	6	6	6	6	6	6	6
Domestic Supply	53	58	59	62	62	64	66	68	70	72	74
Consumption	91	89	94	97	100	103	106	110	113	117	120
Ending Stocks	6	6	6	6	6	6	6	6	6	6	6
Domestic Use	97	95	100	103	106	109	112	116	119	123	126
Net Trade	-44	-37	-40	-41	-44	-45	-46	-48	-50	-51	-53

## Japanese Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	862	856	849	842	835	826	818	808	798	787	776
					(Kilograms)						
Milk Production per Cow	9,269	9,326	9,379	9,430	9,480	9,530	9,580	9,629	9,679	9,729	9,779
					(Thousand Metric Tons)						
Cow Milk Production	7,990	7,982	7,964	7,943	7,914	7,876	7,832	7,781	7,723	7,660	7,592
Fluid Milk Consumption	4,450	4,396	4,378	4,369	4,352	4,331	4,309	4,284	4,257	4,227	4,195
Manufacturing Use	3,455	3,501	3,503	3,491	3,480	3,464	3,442	3,417	3,388	3,355	3,321
<b>Butter</b>											
Production	73	75	75	75	75	74	74	73	72	72	71
Beginning Stocks	16	18	18	18	18	18	18	18	18	18	18
Domestic Supply	89	93	93	93	93	92	92	91	90	90	89
Consumption	85	86	87	87	87	87	87	87	87	87	88
Ending Stocks	18	18	18	18	18	18	18	18	18	18	18
Domestic Use	103	104	105	105	105	105	105	105	105	105	106
Net Trade	-14	-10	-11	-12	-13	-13	-14	-14	-15	-15	-17
<b>Cheese</b>											
Production	55	60	64	67	70	73	76	78	80	83	84
Beginning Stocks	15	15	15	15	15	15	15	15	15	15	15
Domestic Supply	70	75	79	82	85	88	91	93	95	98	99
Consumption	260	270	278	287	293	297	301	305	307	310	311
Ending Stocks	15	15	15	15	15	15	15	15	15	15	15
Domestic Use	275	285	293	302	308	312	316	320	322	325	326
Net Trade	-205	-210	-215	-220	-223	-224	-226	-226	-227	-227	-227
<b>Nonfat Dry Milk</b>											
Production	170	171	170	168	165	163	160	156	153	150	146
Beginning Stocks	38	33	33	33	33	33	33	33	33	33	33
Domestic Supply	208	204	203	201	198	196	193	189	186	183	179
Consumption	210	208	206	204	202	200	198	195	193	190	187
Ending Stocks	33	33	33	33	33	33	33	33	33	33	33
Domestic Use	243	241	239	237	235	233	231	228	226	223	220
Net Trade	-35	-36	-36	-37	-37	-37	-38	-39	-40	-40	-41
<b>Prices</b>											
					(Yen per Kilogram)						
Milk Farm Price	81	82	82	83	83	84	85	85	86	86	87
Butter Wholesale	1,060	969	913	886	877	877	883	889	898	905	913
NFD Wholesale	563	530	515	513	516	518	520	523	526	529	531
Cheese Retail	1,990	1,654	1,425	1,293	1,211	1,155	1,118	1,097	1,084	1,076	1,073

## Malaysian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	93	95	99	100	101	103	105	106	108	110	113
					(Kilograms)						
Milk Production per Cow	460	465	472	475	480	484	484	486	488	490	492
					(Thousand Metric Tons)						
Cow Milk Production	43	44	47	47	49	50	51	51	53	54	55
Fluid Milk Consumption	54	56	58	60	62	64	66	68	70	72	75
Manufacturing Use	2	3	4	3	3	3	2	2	1	1	1
<b>Butter</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	10	12	12	13	13	14	14	15	15	16	16
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	10	12	12	13	13	14	14	15	15	16	16
Net Trade	-10	-12	-12	-13	-13	-14	-14	-15	-15	-16	-16
<b>Cheese</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	8	9	9	10	10	11	11	11	12	12	13
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	8	9	9	10	10	11	11	11	12	12	13
Net Trade	-8	-9	-9	-10	-10	-11	-11	-11	-12	-12	-13
<b>Nonfat Dry Milk</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	58	59	62	65	67	70	73	76	79	82	85
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	58	59	62	65	67	70	73	76	79	82	85
Net Trade	-58	-59	-62	-65	-67	-70	-73	-76	-79	-82	-85
<b>Whole Milk Powder</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	97	101	104	106	109	113	115	118	121	124	126
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	97	101	104	106	109	113	115	118	121	124	126
Net Trade	-97	-101	-104	-106	-109	-113	-115	-118	-121	-124	-126



## New Zealand Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	(Thousand Head)										
Milk Cow Numbers	4,296	4,344	4,395	4,452	4,507	4,550	4,583	4,607	4,627	4,646	4,662
	(Kilograms)										
Milk Production per Cow	3,688	3,703	3,756	3,814	3,865	3,904	3,941	3,975	4,013	4,052	4,089
	(Thousand Metric Tons)										
Cow Milk Production	15,846	16,085	16,507	16,980	17,420	17,762	18,060	18,315	18,570	18,824	19,061
Fluid Milk Consumption	336	336	335	328	324	323	321	318	316	313	311
Manufacturing Use	15,363	15,601	16,024	16,503	16,947	17,289	17,589	17,846	18,103	18,360	18,599
<b>Butter</b>											
Production	399	415	420	426	434	436	438	440	442	443	445
Beginning Stocks	17	34	34	34	34	34	34	34	34	34	34
Domestic Supply	431	449	453	460	468	470	472	473	475	477	479
Consumption	23	24	24	24	24	24	24	24	24	24	24
Ending Stocks	34	34	34	34	34	34	34	34	34	34	34
Domestic Use	57	58	58	58	58	58	58	58	57	57	57
Net Trade	374	391	396	402	410	412	414	416	418	420	421
<b>Cheese</b>											
Production	332	351	365	388	401	411	419	426	431	436	442
Beginning Stocks	14	28	28	28	28	28	28	28	28	28	28
Domestic Supply	354	379	394	416	429	439	448	454	459	465	471
Consumption	24	26	28	28	28	29	30	31	31	32	33
Ending Stocks	28	28	28	28	28	28	28	28	28	28	28
Domestic Use	52	54	56	56	57	58	58	59	60	60	61
Net Trade	302	325	338	360	372	381	390	395	399	404	410
<b>Nonfat Dry Milk</b>											
Production	280	304	311	317	326	329	331	334	337	339	341
Beginning Stocks	16	30	30	30	30	30	30	30	30	30	30
Domestic Supply	303	334	340	346	356	359	361	363	366	369	371
Consumption	1	2	2	2	2	2	2	2	2	2	3
Ending Stocks	30	30	30	30	30	30	30	30	30	30	30
Domestic Use	31	32	32	32	32	32	32	32	32	32	32
Net Trade	272	302	309	315	324	327	329	332	334	337	339
<b>Whole Milk Powder</b>											
Production	685	695	699	708	718	728	737	743	751	757	762
Beginning Stocks	40	68	96	100	98	97	97	96	94	93	93
Domestic Supply	735	763	795	807	816	825	834	840	845	850	855
Consumption	1	1	1	1	1	2	2	1	1	2	2
Ending Stocks	68	96	100	98	97	97	96	94	93	93	93
Domestic Use	69	97	101	100	99	99	98	95	95	94	94
Net Trade	666	666	694	708	717	727	736	745	750	756	760



## Philippine Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	13	14	14	14	15	15	15	15	15	15	16
					(Kilograms)						
Milk Production per Cow	1,077	1,107	1,134	1,164	1,194	1,224	1,254	1,284	1,314	1,344	1,374
					(Thousand Metric Tons)						
Cow Milk Production	14	15	16	17	17	18	19	19	20	21	21
Fluid Milk Consumption	52	55	60	63	66	68	70	72	74	76	79
Manufacturing Use	5	5	5	5	5	5	5	5	5	5	5
<b>Butter</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	10	11	12	12	12	13	13	13	13	14	14
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	10	11	12	12	12	13	13	13	13	14	14
Net Trade	-10	-11	-12	-12	-12	-13	-13	-13	-13	-14	-14
<b>Cheese</b>											
Production	2	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	2	1	1	1	1	1	1	1	1	1	1
Consumption	11	14	14	14	15	15	16	16	17	17	18
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	11	14	14	14	15	15	16	16	17	17	18
Net Trade	-9	-13	-14	-14	-14	-15	-15	-16	-16	-17	-17
<b>Nonfat Dry Milk</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	2	2	0	0	0	0	0	0	0	0	0
Domestic Supply	2	2	0	0	0	0	0	0	0	0	0
Consumption	70	76	79	82	83	85	87	89	91	93	95
Ending Stocks	2	0	0	0	0	0	0	0	0	0	0
Domestic Use	72	76	79	82	83	85	87	89	91	93	95
Net Trade	-70	-74	-79	-82	-83	-85	-87	-89	-91	-93	-95
<b>Whole Milk Powder</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	14	15	17	18	19	21	22	24	26	28	31
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	14	15	17	18	19	21	22	24	26	28	31
Net Trade	-14	-15	-17	-18	-19	-21	-22	-24	-26	-28	-31

## Russian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	9,800	9,705	9,619	9,524	9,441	9,369	9,305	9,248	9,194	9,144	9,097
					(Kilograms)						
Milk Production per Cow	3,316	3,385	3,454	3,524	3,594	3,664	3,734	3,804	3,874	3,944	4,014
					(Thousand Metric Tons)						
Cow Milk Production	32,500	32,855	33,226	33,559	33,928	34,326	34,744	35,175	35,616	36,062	36,512
Fluid Milk Consumption	12,100	12,338	12,455	12,442	12,429	12,440	12,407	12,385	12,375	12,387	12,348
Manufacturing Use	17,795	17,938	18,216	18,588	18,993	19,400	19,868	20,337	20,803	21,251	21,753
<b>Butter</b>											
Production	305	312	314	319	322	326	331	335	340	345	351
Beginning Stocks	15	12	12	12	13	13	13	13	13	13	14
Domestic Supply	320	324	327	332	334	338	344	348	354	358	364
Consumption	438	447	451	457	464	471	474	479	485	493	496
Ending Stocks	12	12	12	13	13	13	13	13	13	14	14
Domestic Use	450	459	464	470	477	483	487	492	499	507	510
Net Trade	-130	-135	-137	-138	-143	-145	-143	-145	-145	-148	-145
<b>Cheese</b>											
Production	425	428	434	442	450	457	465	474	481	488	496
Beginning Stocks	12	14	14	14	14	14	14	14	14	14	14
Domestic Supply	437	442	448	456	464	471	479	488	495	502	510
Consumption	683	687	699	709	722	735	744	755	768	784	793
Ending Stocks	14	14	14	14	14	14	14	14	14	14	14
Domestic Use	697	701	713	723	736	749	758	769	782	798	807
Net Trade	-260	-259	-265	-267	-272	-278	-279	-281	-287	-296	-297
<b>Nonfat Dry Milk</b>											
Production	120	125	127	132	136	139	142	145	150	155	159
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	120	125	127	132	136	139	142	145	150	155	159
Consumption	160	163	167	171	175	180	184	188	192	197	201
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	160	163	167	171	175	180	184	188	192	197	201
Net Trade	-40	-37	-40	-39	-40	-42	-42	-43	-42	-43	-41
<b>Whole Milk Powder</b>											
Production	105	105	108	112	117	119	121	123	124	126	127
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	105	105	108	112	117	119	121	123	124	126	127
Consumption	135	137	140	138	140	140	141	141	141	141	142
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	135	137	140	138	140	140	141	141	141	141	142
Net Trade	-30	-32	-32	-26	-22	-22	-20	-18	-17	-16	-15

## Saudi Arabian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	113	120	123	124	130	133	135	138	141	145	148
					(Kilograms)						
Milk Production per Cow	8,979	9,019	9,059	9,099	9,139	9,179	9,219	9,259	9,299	9,339	9,379
					(Thousand Metric Tons)						
Cow Milk Production	1,015	1,087	1,118	1,128	1,186	1,223	1,248	1,277	1,311	1,350	1,391
Fluid Milk Consumption	1,105	1,158	1,234	1,288	1,319	1,351	1,377	1,402	1,425	1,452	1,481
Manufacturing Use	114	124	96	55	85	92	92	99	113	130	148
<b>Butter</b>											
Production	5	5	4	2	4	4	4	4	5	6	6
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	5	5	4	2	4	4	4	4	5	6	6
Consumption	41	46	49	52	54	56	58	59	61	63	65
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	41	46	49	52	54	56	58	59	61	63	65
Net Trade	-36	-40	-45	-49	-50	-52	-54	-55	-56	-57	-58
<b>Cheese</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	82	80	85	85	87	89	92	93	96	98	101
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	82	80	85	85	87	89	92	93	96	98	101
Net Trade	-82	-80	-85	-85	-87	-89	-92	-93	-96	-98	-101
<b>Nonfat Dry Milk</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	23	26	29	31	33	36	39	42	44	47	50
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	23	26	29	31	33	36	39	42	44	47	50
Net Trade	-23	-26	-29	-31	-33	-36	-39	-42	-44	-47	-50
<b>Whole Milk Powder</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	95	108	113	114	118	121	124	126	128	131	135
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	95	108	113	114	118	121	124	126	128	131	135
Net Trade	-95	-108	-113	-114	-118	-121	-124	-126	-128	-131	-135





## Thai Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	192	183	185	198	224	236	245	251	260	269	277
					(Kilograms)						
Milk Production per Cow	3,022	3,056	3,122	3,168	3,219	3,270	3,319	3,382	3,442	3,510	3,578
					(Thousand Metric Tons)						
Cow Milk Production	580	559	578	628	720	773	814	849	896	943	991
Fluid Milk Consumption	826	899	942	978	1,043	1,132	1,219	1,311	1,403	1,494	1,588
Manufacturing Use	11	10	10	10	10	10	10	10	10	10	10
<b>Butter</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	15	16	16	17	17	18	19	19	20	21	21
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	15	16	16	17	17	18	19	19	20	21	21
Net Trade	-15	-16	-16	-17	-17	-18	-19	-19	-20	-21	-21
<b>Cheese</b>											
Production	1	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1	1	1	1	1	1	1	1	1	1	1
Consumption	3	4	4	4	5	5	5	5	5	5	6
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	3	4	4	4	5	5	5	5	5	5	6
Net Trade	-2	-3	-3	-3	-3	-3	-4	-4	-4	-4	-4
<b>Nonfat Dry Milk</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	21	21	21	21	21	21	21	21	21	21	21
Domestic Supply	21	21	21	21	21	21	21	21	21	21	21
Consumption	77	74	78	81	82	85	88	91	94	97	100
Ending Stocks	21	21	21	21	21	21	21	21	21	21	21
Domestic Use	98	95	99	102	103	106	109	112	115	118	121
Net Trade	-77	-74	-78	-81	-82	-85	-88	-91	-94	-97	-100
<b>Whole Milk Powder</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	6	6	6	6	6	6	6	6	6	6	6
Domestic Supply	6	6	6	6	6	6	6	6	6	6	6
Consumption	39	42	42	43	45	46	48	49	50	52	53
Ending Stocks	6	6	6	6	6	6	6	6	6	6	6
Domestic Use	45	48	48	49	51	52	54	55	56	58	59
Net Trade	-39	-42	-42	-43	-45	-46	-48	-49	-50	-52	-53

## Ukrainian Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	2,979	2,607	2,425	2,321	2,271	2,244	2,227	2,218	2,206	2,204	2,203
					(Kilograms)						
Milk Production per Cow	3,716	3,806	3,894	3,982	4,070	4,158	4,246	4,334	4,422	4,510	4,598
					(Thousand Metric Tons)						
Cow Milk Production	11,070	9,922	9,443	9,241	9,241	9,328	9,455	9,614	9,755	9,939	10,128
Fluid Milk Consumption	2,779	2,423	2,435	2,669	2,995	3,302	3,587	3,817	4,050	4,288	4,531
Manufacturing Use	7,400	6,763	6,344	5,949	5,642	5,433	5,281	5,214	5,126	5,073	5,019
<b>Butter</b>											
Production	89	93	94	96	100	103	106	110	114	118	122
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	89	93	94	96	100	103	106	110	114	118	122
Consumption	82	70	72	77	83	84	86	88	89	89	89
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	82	70	72	77	83	84	86	88	89	89	89
Net Trade	7	23	22	19	17	18	21	22	25	29	33
<b>Cheese</b>											
Production	256	256	266	274	277	283	289	300	310	320	331
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	256	256	266	274	277	283	289	300	310	320	331
Consumption	191	185	186	195	204	212	219	224	228	234	239
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	191	185	186	195	204	212	219	224	228	234	239
Net Trade	65	71	80	79	73	70	69	76	82	87	92
<b>Nonfat Dry Milk</b>											
Production	65	70	65	61	59	57	55	55	54	53	53
Beginning Stocks	2	2	2	2	2	2	2	2	2	2	2
Domestic Supply	67	72	67	63	61	59	57	57	56	55	55
Consumption	25	12	12	14	16	17	18	18	18	18	18
Ending Stocks	2	2	2	2	2	2	2	2	2	2	2
Domestic Use	27	14	14	16	18	19	20	20	20	20	20
Net Trade	40	58	53	47	43	40	37	37	36	36	35
<b>Whole Milk Powder</b>											
Production	40	42	43	45	46	48	49	51	53	55	57
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	40	42	43	45	46	48	49	51	53	55	57
Consumption	17	18	18	18	19	19	20	20	21	21	21
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	17	18	18	18	19	19	20	20	21	21	21
Net Trade	23	25	26	26	27	28	29	31	32	34	35

## Uruguayan Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	960	969	975	985	991	998	1,005	1,012	1,018	1,025	1,032
					(Kilograms)						
Milk Production per Cow	1,741	1,763	1,780	1,787	1,797	1,815	1,822	1,832	1,844	1,854	1,864
					(Thousand Metric Tons)						
Cow Milk Production	1,671	1,708	1,736	1,759	1,782	1,812	1,831	1,853	1,878	1,901	1,923
Fluid Milk Consumption	341	362	371	375	380	384	387	389	392	395	399
Manufacturing Use	1,184	1,205	1,204	1,220	1,239	1,265	1,281	1,300	1,321	1,340	1,358
<b>Butter</b>											
Production	17	21	21	21	23	24	25	26	27	28	29
Beginning Stocks	4	4	4	4	4	4	4	4	4	4	4
Domestic Supply	21	25	25	25	27	28	29	30	31	32	33
Consumption	6	7	7	7	8	8	8	8	8	8	9
Ending Stocks	4	4	4	4	4	4	4	4	4	4	4
Domestic Use	10	11	11	11	12	12	12	12	12	12	13
Net Trade	11	15	14	14	15	16	17	18	19	20	21
<b>Cheese</b>											
Production	30	32	34	36	37	39	40	42	43	45	46
Beginning Stocks	3	3	3	3	3	3	3	3	3	3	3
Domestic Supply	33	35	37	39	40	42	43	45	46	48	49
Consumption	11	13	13	13	14	14	14	15	15	16	16
Ending Stocks	3	3	3	3	3	3	3	3	3	3	3
Domestic Use	14	16	16	16	17	17	17	18	18	19	19
Net Trade	20	19	20	22	23	25	26	27	28	29	30
<b>Nonfat Dry Milk</b>											
Production	16	19	20	20	21	23	24	25	27	28	29
Beginning Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Supply	17	20	21	21	22	24	25	26	28	29	30
Consumption	4	5	5	5	5	5	5	6	6	6	6
Ending Stocks	1	1	1	1	1	1	1	1	1	1	1
Domestic Use	5	6	6	6	6	6	6	7	7	7	7
Net Trade	13	14	15	14	16	17	18	20	21	22	23
<b>Whole Milk Powder</b>											
Production	26	26	25	27	29	31	32	34	36	38	41
Beginning Stocks	11	11	11	11	11	11	11	11	11	11	11
Domestic Supply	37	37	36	38	40	42	43	45	47	49	52
Consumption	5	6	7	7	7	7	7	7	7	7	7
Ending Stocks	11	11	11	11	11	11	11	11	11	11	11
Domestic Use	16	17	18	18	18	18	18	18	18	18	18
Net Trade	21	20	19	20	22	24	25	27	29	31	34

## Venezuelan Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	742	768	804	813	822	829	835	837	841	850	860
					(Kilograms)						
Milk Production per Cow	1,811	1,829	1,847	1,865	1,882	1,900	1,917	1,935	1,953	1,970	1,988
					(Thousand Metric Tons)						
Cow Milk Production	1,345	1,405	1,485	1,516	1,547	1,576	1,601	1,620	1,642	1,674	1,709
Fluid Milk Consumption	186	186	186	189	192	195	197	200	203	206	208
Manufacturing Use	1,159	1,219	1,299	1,327	1,355	1,381	1,404	1,420	1,439	1,468	1,501
<b>Butter</b>											
Production	1	1	1	1	1	1	1	1	1	1	1
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	1	1	1	1	1	1	1	1	1	1	1
Consumption	4	4	4	4	4	5	5	5	5	6	6
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	4	4	4	4	4	5	5	5	5	6	6
Net Trade	-2	-3	-3	-3	-3	-3	-4	-4	-4	-4	-4
<b>Cheese</b>											
Production	64	69	75	78	81	82	84	86	88	90	92
Beginning Stocks	28	28	28	28	28	28	28	28	28	28	28
Domestic Supply	92	97	103	106	109	110	112	114	116	118	120
Consumption	76	78	81	83	86	89	92	94	97	100	103
Ending Stocks	28	28	28	28	28	28	28	28	28	28	28
Domestic Use	104	106	109	111	114	117	120	122	125	128	131
Net Trade	-12	-9	-6	-5	-5	-7	-7	-9	-9	-10	-11
<b>Nonfat Dry Milk</b>											
Production	3	4	4	4	4	4	4	4	4	4	4
Beginning Stocks	3	3	3	3	3	3	3	3	3	3	3
Domestic Supply	6	7	7	7	7	7	7	7	7	7	7
Consumption	11	11	11	11	11	12	12	12	12	12	13
Ending Stocks	3	3	3	3	3	3	3	3	3	3	3
Domestic Use	14	14	14	14	14	15	15	15	15	15	16
Net Trade	-7	-7	-7	-7	-7	-8	-8	-8	-8	-8	-8
<b>Whole Milk Powder</b>											
Production	28	29	30	31	31	32	32	33	33	34	34
Beginning Stocks	34	34	34	34	34	34	34	34	34	34	34
Domestic Supply	62	63	64	65	65	66	66	67	67	68	68
Consumption	122	123	123	123	123	124	124	124	125	125	125
Ending Stocks	34	34	34	34	34	34	34	34	34	34	34
Domestic Use	156	157	157	157	157	158	158	158	159	159	159
Net Trade	-93	-95	-93	-92	-93	-92	-92	-92	-92	-91	-91

## Vietnamese Dairy Supply and Utilization

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
					(Thousand Head)						
Milk Cow Numbers	159	188	205	213	224	238	239	248	261	283	305
					(Kilograms)						
Milk Production per Cow	1,741	1,816	1,891	1,966	2,041	2,116	2,191	2,266	2,341	2,416	2,491
					(Thousand Metric Tons)						
Cow Milk Production	276	341	388	418	458	504	523	561	611	684	760
Fluid Milk Consumption	156	188	198	207	213	222	231	240	249	259	268
Manufacturing Use	0	0	0	0	0	0	0	0	0	0	0
<b>Butter</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	6	8	8	9	9	10	10	11	11	12	12
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	6	8	8	9	9	10	10	11	11	12	12
Net Trade	-6	-8	-8	-9	-9	-10	-10	-11	-11	-12	-12
<b>Cheese</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	1	2	2	2	2	2	2	2	2	2	2
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	1	2	2	2	2	2	2	2	2	2	2
Net Trade	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
<b>Nonfat Dry Milk</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	25	24	26	27	28	31	33	35	37	40	42
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	25	24	26	27	28	31	33	35	37	40	42
Net Trade	-25	-24	-26	-27	-28	-31	-33	-35	-37	-40	-42
<b>Whole Milk Powder</b>											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Supply	0	0	0	0	0	0	0	0	0	0	0
Consumption	40	44	48	51	56	60	65	70	75	80	85
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	40	44	48	51	56	60	65	70	75	80	85
Net Trade	-40	-44	-48	-51	-56	-60	-65	-70	-75	-80	-85





## Per Capita Dairy Consumption of Selected Countries (continued)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Switzerland</b>											
						(Kilograms)					
Fluid Milk	98.5	99.4	98.7	97.9	97.1	96.4	95.6	94.9	94.1	93.4	92.7
Butter	6.0	6.3	6.3	6.2	6.2	6.1	6.1	6.0	6.0	5.9	5.8
Cheese	18.6	20.0	20.0	19.9	19.9	19.9	19.9	19.9	19.9	20.0	20.0
NFD Milk	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
<b>Thailand</b>											
Fluid Milk	12.6	13.6	14.2	14.7	15.6	16.8	18.0	19.3	20.5	21.8	23.0
Butter	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Cheese	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NFD Milk	1.2	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.5
Whole Milk Powder	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8
<b>Ukraine</b>											
Fluid Milk	60.4	53.0	53.6	59.1	66.8	74.1	81.0	86.7	92.6	98.7	105.0
Butter	1.8	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.1
Cheese	4.2	4.1	4.1	4.3	4.5	4.8	5.0	5.1	5.2	5.4	5.5
NFD Milk	0.5	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Whole Milk Powder	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
<b>United States</b>											
Total Fluid Milk	93.0	94.9	93.6	92.2	91.5	91.0	90.5	90.1	89.7	89.3	89.0
Butter	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1
Cheese	14.8	14.8	15.0	15.0	15.1	15.2	15.3	15.4	15.4	15.5	15.6
NFD Milk	1.4	1.4	1.6	1.7	1.5	1.4	1.4	1.4	1.4	1.4	1.5
<b>Uruguay</b>											
Fluid Milk	98.1	103.7	105.6	106.5	107.2	107.9	108.3	108.5	108.9	109.5	110.0
Butter	1.7	1.9	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.4
Cheese	3.1	3.6	3.8	3.8	3.9	4.0	4.0	4.1	4.2	4.3	4.4
NFD Milk	1.1	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6
Whole Milk Powder	1.3	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
<b>Venezuela</b>											
Fluid Milk	7.0	6.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Butter	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Cheese	2.9	2.9	3.0	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.4
NFD Milk	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Whole Milk Powder	4.6	4.6	4.5	4.5	4.4	4.4	4.3	4.3	4.2	4.2	4.1
<b>Vietnam</b>											
Fluid Milk	1.8	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.7	2.8	2.8
Butter	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cheese	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NFD Milk	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Whole Milk Powder	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9