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# World Rice Outlook

## International Rice Baseline Projections, 2011-2020<sup>1</sup>

By

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The baseline projections presented in this report are generated using the Arkansas Global Rice Model (AGRM) which is a multi-country statistical simulation and econometric framework developed and maintained by the Department of Agricultural Economics and Agribusiness at the University of Arkansas in Fayetteville. The global model is disaggregated into 40 of the major rice producing, consuming and trading rice countries and the rest of the world into five regional aggregations: Africa, the Americas, Asia, Europe, and Oceania. Each country and regional model includes a supply sector, a demand sector, a trade, stocks and price linkage equations. Other details and the theoretical structure and the general equations of the Arkansas Global Rice Model can be found in the documentation by Wailes and Chavez (2011). Macroeconomic assumptions used in this analysis can be found in FAPRI-MU U.S. Baseline Briefing Book (2011) and FAPRI-ISU 2011 World Agricultural Outlook (2011).

The rice policy assumptions by country are shown in Appendix1. The historical trade policies (e.g. tariff rates) are maintained i.e., the price crisis-induced trade policy interventions (distortions) are not included in the long-term baseline projections, the reason being that those changes could be short-lived. However, a recent study by Yu, T.-H., et al., (2011) looks at the effects of those policy interventions (export bans/restrictions and import tariff reductions) on major commodity crops, including rice. While India has not officially lifted the ban on non-basmati rice exports, the country has reportedly begun shipments on a government-to-government basis and it is assumed that it will open its trade eventually and increase its exports steadily over the projection period.

Detailed results of the analysis by country and by region are presented in Tables 1-50c. Over the ten-year baseline period (2011/12 - 2020/21), world rice output grows at 0.93% per year with 0.86% coming from yield improvement and 0.07% coming from marginal growth in area. Global rice consumption gains 0.94% annually, as population grows at 1.04% and per capita use declines slightly at 0.10%. Net trade continues to grow at 2.62% per year. International rice prices increase steadily, as population-led growth in consumption and gains in net trade continue.

Over the same period, India and China remain as the largest rice economies which combined account for 46.3% of global rice area harvested, 50.9% of total milled production, and 50.0% of total consumption. Bangladesh, Thailand and Vietnam combined account for 18.7% of world area harvested while Indonesia, Bangladesh and Vietnam combined account for 21.1% of total milled production and 20.5% of total consumption. The top rice net exporters are Thailand, Vietnam, India, Pakistan and the U.S. which combined account for 83.6% global net trade. Although there is political uncertainty in the future rice policy in Thailand, the country is expected to remain the top global rice exporter over the same period. Slower rice export growth is expected for Vietnam and the U.S. due to area limitations. Cambodia and

Myanmar are projected to increase rice exports steadily as production continues to exceed consumption. Most of the rice net import demand (38.3% of total) is projected to come from the Philippines, Nigeria, Bangladesh, Malaysia, and the Middle East.

A projected net growth of 1.2 million hectares in global rice harvested area over the next decade reflects that some countries' areas are increasing and some declining. The largest projected expansion in area is in India by 1.43 million hectares while China rice area contracts by 1.69 million hectares. Rice area in Cambodia, Pakistan and Thailand increases by a combined 1.37 million hectares while Vietnam, Japan and South Korea reduce rice area by a combined 0.56 million hectares. Global milled rice production expands by 44.0 million metric tons (mmt) over the same period, with China's output declining by 3.7 mmt and India's volume expanding by 17.1 mmt. Eight countries combined (Bangladesh, Indonesia, Thailand, Vietnam, Myanmar, the Philippines, Pakistan and Cambodia) account for 20.8 mmt of the gain in rice output.

World total rice consumption increases by 44.2 mmt (net) over the same period, with 43.6% coming from India and Bangladesh combined; and 22.5% accounted for by Indonesia, the Philippines, Vietnam and Nigeria combined. The bulk (80.3%) of the 7.9 mmt-growth in net exports is accounted for by the five countries of Thailand, Cambodia, Myanmar, Pakistan, and India combined. On the other hand, 55.5% of the growth in import demand comes from Bangladesh, the Philippines, and the Middle East combined.

Annual changes by world regions give additional insights into the dynamics of the global rice economy (see Tables 46a-50c). Annual growth in rice area harvested is relatively high in Africa (+0.61%), followed by Oceania (+1.41%; high due to recovering but drought-reduced base year), Asia (+0.05%), the Americas (-0.21%), and the European Union (-0.28%). Annual rice yield growth is fastest in Africa (+2.40%), followed by the Americas (+1.21%), Oceania (+0.86%), Asia (+0.79%), and the European Union (+0.76%). Combining the growth rates of area and yield result in the growth rate of total production. Thus, the projected rice output growth rates are +3.02% for Africa, +2.23% for Oceania, +1.00% for the Americas, +0.84% for Asia, and +0.76% for the European Union.

Annual growth in population is high in Africa (+2.20%), followed by Oceania (+1.18%), the Americas (1.01%), Asia (+0.93%), and the European Union (-0.05%). Annual growth in per capita rice use is fastest in Europe (+0.91%), followed by Oceania (+0.74%), Africa (+0.65%), the Americas (+0.28%), and Asia (-0.14%). Combining the growth rates of population and per capita use result in the growth rate of total consumption. Thus, the total rice consumption growth rates are +2.86% for Africa, 1.94% for Oceania, 1.30% for the Americas, +0.86% for the European Union, and +0.78% for Asia. Growth rates in net rice trade are +2.92% for Africa, +1.98% for Asia, +0.52% for the European Union, -0.80% for Oceania, and -2.30% for the Americas. Thus, while the African rice economies are still relatively small, its apparent dynamic growth offers promising food security opportunities for the continent.

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**Table 1. Net Rice Trade**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
<b>Net Exporters</b>											
Argentina	690	699	737	697	743	712	770	760	789	796	825
Australia	200	284	285	262	264	280	244	258	264	263	268
Cambodia	830	934	886	1,212	1,379	1,326	1,454	1,564	1,655	1,764	1,757
China	570	648	582	581	527	558	554	559	518	456	478
Egypt	20	66	94	127	137	138	115	96	70	71	77
India	2,500	2,557	2,480	2,563	3,724	3,785	4,070	4,307	4,513	4,472	3,275
Myanmar (Burma)	500	659	882	1,046	1,118	1,289	1,305	1,325	1,328	1,299	1,389
Pakistan	2,650	2,796	2,983	3,115	2,970	3,033	3,087	3,210	3,358	3,284	3,470
Thailand	9,700	9,722	10,298	9,807	11,008	11,258	11,330	11,407	11,514	11,622	12,639
United States	3,010	3,082	3,081	3,036	2,975	2,986	3,069	3,052	3,136	3,241	3,377
Uruguay	815	811	896	936	973	998	1,046	1,091	1,134	1,177	1,210
Vietnam	5,300	5,761	5,784	5,969	5,632	5,886	6,024	5,835	5,811	5,732	5,926
Total Net Exports *	26,785	28,018	28,988	29,353	31,450	32,249	33,068	33,465	34,090	34,176	34,691
<b>Net Importers</b>											
Bangladesh	750	1,071	1,299	1,068	1,007	1,435	1,474	1,643	1,826	1,973	2,371
Brazil	100	182	320	293	277	274	249	283	216	166	41
Cameroon	310	346	363	392	419	425	436	460	488	503	501
Canada	340	338	330	340	388	400	414	428	443	459	464
China - Hong Kong	410	407	410	414	419	419	423	426	430	437	436
European Union-27	1,170	1,014	1,025	1,143	1,227	1,187	1,185	1,210	1,257	1,287	1,341
Ghana	320	392	373	382	391	375	346	323	303	278	261
Guinea	225	262	271	300	355	360	379	389	407	451	462
Indonesia	950	1,099	1,014	864	1,098	1,263	1,280	1,309	1,238	1,215	1,288
Iran	1,200	1,377	1,400	1,447	1,541	1,586	1,623	1,656	1,735	1,818	1,768

Iraq	1,150	1,216	1,256	1,307	1,366	1,427	1,478	1,514	1,550	1,588	1,628
Ivory Coast	900	1,125	995	1,025	1,099	1,144	1,196	1,254	1,301	1,348	1,408
Japan	500	482	482	482	482	482	482	482	482	482	482
Kenya	240	323	255	274	309	309	332	348	369	376	373
Malaysia	1,019	1,201	1,152	1,190	1,242	1,263	1,286	1,315	1,349	1,387	1,420
Mali	100	145	156	134	153	153	143	139	139	146	137
Mexico	645	715	732	735	763	787	817	845	874	911	938
Mozambique	400	432	433	444	472	484	500	516	535	568	561
Nigeria	1,900	1,986	2,034	2,109	2,251	2,234	2,290	2,305	2,346	2,332	2,343
Philippines	2,000	2,616	2,595	2,509	2,781	2,868	3,020	2,962	3,105	3,279	3,427
Saudi Arabia	1,080	1,205	1,192	1,174	1,206	1,231	1,260	1,289	1,318	1,350	1,374
Senegal	690	813	854	793	828	805	889	927	967	1,009	1,053
Sierra Leone	135	145	156	164	180	186	188	188	198	206	202
South Africa	870	948	943	871	934	883	909	981	1,007	1,045	1,057
South Korea	325	348	368	388	409	409	409	409	409	409	409
Taiwan	129	106	106	106	106	106	106	106	106	106	106
Tanzania	90	118	128	144	179	204	219	233	247	273	290
Turkey	350	179	337	349	380	374	389	406	423	415	434
Rest of World	7,493	7,729	8,307	8,786	9,469	9,471	9,610	9,397	9,308	8,649	8,408
Residual	994	-305	-297	-275	-280	-296	-262	-278	-285	-288	-293
Total Net Imports	26,785	28,018	28,988	29,353	31,450	32,249	33,068	33,465	34,090	34,176	34,691

Prices (U.S. Dollars per Metric Ton)											
Thai 100% Grade B	525	528	542	539	529	550	557	567	574	549	591
U.S. FOB Gulf Ports	559	535	549	546	543	560	566	574	581	556	591

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

**Table 2. World Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	19/20
(Thousand Hectares)											
Area Harvested	159,164	158,415	158,282	158,927	159,422	159,193	159,498	159,695	160,033	160,262	160,359
(Metric Tons per Hectare)											
Yield	2.84	2.87	2.90	2.93	2.95	2.97	3.00	3.03	3.05	3.08	3.10
(Thousand Metric Tons)											
Production	452,528	454,552	459,176	465,002	469,517	473,016	478,671	483,782	487,883	494,222	496,545
Beginning Stocks	94,770	94,368	93,986	94,528	95,842	95,882	95,105	95,126	96,595	97,677	100,442
Domestic Supply	547,298	548,920	553,162	559,530	565,359	568,898	573,776	578,908	584,478	591,899	596,987
Consumption	451,936	455,277	458,959	464,028	469,794	474,135	478,961	482,641	487,140	491,798	496,126
Ending Stocks	94,368	93,986	94,528	95,842	95,882	95,105	95,126	96,595	97,677	100,442	101,209
Domestic Use	546,304	549,263	553,487	559,870	565,676	569,240	574,087	579,236	584,817	592,240	597,336
Total Trade	30,539	31,289	32,389	32,767	34,973	35,837	36,697	37,150	37,821	37,954	38,507
(Percent)											
Stocks-to-Use Ratio	20.88	20.64	20.60	20.65	20.41	20.06	19.86	20.01	20.05	20.42	20.40

**Table 3. U.S. Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	1,463	1,217	1,232	1,220	1,223	1,228	1,241	1,239	1,249	1,270	1,289
(Metric Tons per Hectare)											
Yield	5.09	5.60	5.64	5.70	5.75	5.80	5.86	5.91	5.96	6.00	6.05
(Thousand Metric Tons)											
Production	7,443	6,811	6,953	6,953	7,024	7,122	7,274	7,325	7,442	7,621	7,802
Beginning Stocks	1,154	1,586	1,409	1,281	1,182	1,134	1,132	1,148	1,169	1,181	1,207
Domestic Supply	8,597	8,397	8,361	8,233	8,206	8,257	8,405	8,473	8,611	8,802	9,009
Consumption	4,001	3,959	4,027	4,080	4,134	4,185	4,237	4,301	4,347	4,407	4,456
Ending Stocks	1,586	1,409	1,281	1,182	1,134	1,132	1,148	1,169	1,181	1,207	1,231
Domestic Use	5,587	5,367	5,308	5,262	5,269	5,317	5,385	5,471	5,528	5,614	5,687
Net Trade	3,010	3,082	3,081	3,036	2,975	2,986	3,069	3,052	3,136	3,241	3,377

**Table 4. Argentine Rice Supply and Utilization**

	<b>10/11</b>	<b>11/12</b>	<b>12/13</b>	<b>13/14</b>	<b>14/15</b>	<b>15/16</b>	<b>16/17</b>	<b>17/18</b>	<b>18/19</b>	<b>19/20</b>	<b>20/21</b>
(Thousand Hectares)											
Area Harvested	230	230	231	232	233	234	237	239	240	242	243
(Metric Tons per Hectare)											
Yield	4.52	4.55	4.56	4.64	4.71	4.78	4.86	4.92	4.99	5.06	5.13
(Thousand Metric Tons)											
Production	1,040	1,049	1,054	1,077	1,099	1,120	1,149	1,174	1,201	1,225	1,245
Beginning Stocks	61	81	100	83	120	122	172	186	226	242	270
Domestic Supply	1,101	1,130	1,154	1,160	1,219	1,242	1,321	1,360	1,426	1,467	1,515
Consumption	330	332	334	343	353	358	365	374	395	401	406
Ending Stocks	81	100	83	120	122	172	186	226	242	270	284
Domestic Use	411	432	417	463	476	530	551	600	637	671	690
Net Trade	690	699	737	697	743	712	770	760	789	796	825

**Table 5. Australian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	82	94	96	95	95	95	96	96	96	95	95
(Metric Tons per Hectare)											
Yield	6.98	7.00	7.02	7.13	7.20	7.26	7.32	7.38	7.45	7.49	7.55
(Thousand Metric Tons)											
Production	572	661	673	675	684	693	701	710	714	715	716
Beginning Stocks	44	86	120	162	221	280	327	411	484	545	600
Domestic Supply	616	747	793	838	905	973	1,028	1,122	1,198	1,260	1,316
Consumption	330	342	346	355	361	366	372	380	389	397	403
Ending Stocks	86	120	162	221	280	327	411	484	545	600	645
Domestic Use	416	463	508	576	641	693	784	863	934	997	1,048
Net Trade	200	284	285	262	264	280	244	258	264	263	268

**Table 6. Bangladeshi Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	11,800	11,747	11,730	11,863	11,963	12,003	12,056	12,046	12,026	12,005	11,962
(Metric Tons per Hectare)											
Yield	2.74	2.73	2.77	2.80	2.85	2.85	2.89	2.93	2.98	3.02	3.06
(Thousand Metric Tons)											
Production	32,300	32,054	32,441	33,247	34,091	34,261	34,861	35,292	35,780	36,301	36,564
Beginning Stocks	638	988	996	1,009	1,020	1,036	1,048	1,060	1,072	1,086	1,099
Domestic Supply	32,938	33,042	33,438	34,255	35,111	35,297	35,909	36,353	36,852	37,387	37,663
Consumption	32,700	33,117	33,728	34,303	35,082	35,684	36,322	36,923	37,593	38,261	38,922
Ending Stocks	988	996	1,009	1,020	1,036	1,048	1,060	1,072	1,086	1,099	1,112
Domestic Use	33,688	34,113	34,736	35,323	36,118	36,731	37,383	37,995	38,678	39,360	40,034
Net Trade	-750	-1,071	-1,299	-1,068	-1,007	-1,435	-1,474	-1,643	-1,826	-1,973	-2,371

**Table 7. Brazilian Rice Supply and Utilization**

	<b>10/11</b>	<b>11/12</b>	<b>12/13</b>	<b>13/14</b>	<b>14/15</b>	<b>15/16</b>	<b>16/17</b>	<b>17/18</b>	<b>18/19</b>	<b>19/20</b>	<b>20/21</b>
(Thousand Hectares)											
Area Harvested	2,750	2,674	2,630	2,649	2,671	2,682	2,697	2,706	2,722	2,749	2,786
(Metric Tons per Hectare)											
Yield	3.07	3.03	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.38	3.42
(Thousand Metric Tons)											
Production	8,450	8,113	8,165	8,327	8,495	8,640	8,794	8,931	9,091	9,291	9,522
Beginning Stocks	776	776	756	763	765	771	774	776	782	781	784
Domestic Supply	9,226	8,889	8,920	9,089	9,260	9,410	9,568	9,707	9,874	10,071	10,306
Consumption	8,550	8,301	8,477	8,617	8,766	8,911	9,041	9,207	9,309	9,453	9,564
Ending Stocks	776	756	763	765	771	774	776	782	781	784	783
Domestic Use	9,326	9,057	9,240	9,383	9,537	9,685	9,818	9,990	10,090	10,237	10,347
Net Trade	-100	-182	-320	-293	-277	-274	-249	-283	-216	-166	-41

**Table 8. Cambodian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	2,750	2,796	2,777	2,968	3,079	3,040	3,088	3,128	3,161	3,195	3,172
(Metric Tons per Hectare)											
Yield	1.75	1.78	1.82	1.84	1.86	1.89	1.93	1.97	2.00	2.04	2.07
(Thousand Metric Tons)											
Production	4,800	4,973	5,049	5,456	5,719	5,758	5,963	6,152	6,330	6,513	6,576
Beginning Stocks	0	0	1	3	4	6	8	9	10	11	12
Domestic Supply	4,800	4,973	5,049	5,459	5,724	5,764	5,971	6,161	6,340	6,524	6,588
Consumption	3,970	4,039	4,160	4,243	4,339	4,430	4,507	4,587	4,674	4,748	4,818
Ending Stocks	0	1	3	4	6	8	9	10	11	12	13
Domestic Use	3,970	4,040	4,163	4,247	4,345	4,438	4,516	4,597	4,685	4,760	4,830
Net Trade	830	934	886	1,212	1,379	1,326	1,454	1,564	1,655	1,764	1,757

**Table 9. Cameroon Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	65	63	68	72	80	87	93	96	99	103	105
(Metric Tons per Hectare)											
Yield	1.20	1.22	1.23	1.24	1.24	1.26	1.27	1.29	1.31	1.33	1.34
(Thousand Metric Tons)											
Production	78	77	83	89	99	109	118	123	129	136	141
Beginning Stocks	0	0	6	7	8	10	11	11	12	14	15
Domestic Supply	78	77	89	96	108	119	129	135	142	150	155
Consumption	388	417	445	480	517	534	554	582	616	638	642
Ending Stocks	0	6	7	8	10	11	11	12	14	15	15
Domestic Use	388	423	452	488	527	545	565	594	629	652	657
Net Trade	-310	-346	-363	-392	-419	-425	-436	-460	-488	-503	-501

**Table 10. Canadian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Metric Tons)											
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	340	338	330	340	388	400	414	428	443	459	464
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	340	338	330	340	388	400	414	428	443	459	464
Net Trade	-340	-338	-330	-340	-388	-400	-414	-428	-443	-459	-464

**Table 11. Chinese Rice Supply and Utilization**

	<b>10/11</b>	<b>11/12</b>	<b>12/13</b>	<b>13/14</b>	<b>14/15</b>	<b>15/16</b>	<b>16/17</b>	<b>17/18</b>	<b>18/19</b>	<b>19/20</b>	<b>20/21</b>
(Thousand Hectares)											
Area Harvested	29,820	29,476	29,353	29,252	29,115	28,775	28,726	28,540	28,436	28,290	28,127
(Metric Tons per Hectare)											
Yield	4.67	4.63	4.72	4.74	4.77	4.78	4.79	4.80	4.81	4.82	4.82
(Thousand Metric Tons)											
Production	139,300	136,508	138,416	138,775	138,814	137,610	137,492	137,027	136,883	136,404	135,590
Beginning Stocks	40,849	43,079	42,334	43,658	45,126	45,983	45,843	45,557	45,431	45,595	45,786
Domestic Supply	180,149	179,587	180,750	182,433	183,940	183,593	183,334	182,584	182,314	181,999	181,376
Consumption	136,500	136,605	136,510	136,726	137,430	137,192	137,223	136,594	136,201	135,757	135,161
Ending Stocks	43,079	42,334	43,658	45,126	45,983	45,843	45,557	45,431	45,595	45,786	45,737
Domestic Use	179,579	178,939	180,169	181,851	183,413	183,034	182,781	182,025	181,796	181,543	180,898
Net Trade	570	648	582	581	527	558	554	559	518	456	478

**Table 12. Egyptian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	470	591	626	636	638	638	639	640	640	639	640
(Metric Tons per Hectare)											
Yield	6.60	6.57	6.58	6.58	6.59	6.62	6.65	6.68	6.71	6.79	6.82
(Thousand Metric Tons)											
Production	3,100	3,882	4,121	4,184	4,207	4,226	4,252	4,275	4,294	4,342	4,362
Beginning Stocks	499	179	180	340	459	531	563	595	617	636	654
Domestic Supply	3,599	4,061	4,302	4,524	4,665	4,757	4,815	4,869	4,911	4,978	5,017
Consumption	3,400	3,814	3,867	3,938	3,998	4,057	4,105	4,156	4,205	4,253	4,300
Ending Stocks	179	180	340	459	531	563	595	617	636	654	640
Domestic Use	3,579	3,995	4,207	4,397	4,529	4,619	4,700	4,773	4,841	4,907	4,940
Net Trade	20	66	94	127	137	138	115	96	70	71	77

**Table 13. European Union Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	462	462	461	465	466	461	463	463	464	463	461
(Metric Tons per Hectare)											
Yield	4.37	4.32	4.33	4.35	4.34	4.34	4.36	4.38	4.40	4.42	4.43
(Thousand Metric Tons)											
Production	2,020	1,996	1,995	2,022	2,024	1,999	2,021	2,028	2,039	2,045	2,045
Beginning Stocks	1,029	1,169	1,121	1,057	1,096	1,173	1,165	1,144	1,123	1,128	1,105
Domestic Supply	3,049	3,165	3,116	3,079	3,120	3,172	3,186	3,171	3,162	3,173	3,150
Consumption	3,050	3,058	3,084	3,126	3,174	3,194	3,227	3,258	3,291	3,354	3,385
Ending Stocks	1,169	1,121	1,057	1,096	1,173	1,165	1,144	1,123	1,128	1,105	1,106
Domestic Use	4,219	4,179	4,141	4,222	4,347	4,359	4,371	4,381	4,419	4,459	4,491
Net Trade	-1,170	-1,014	-1,025	-1,143	-1,227	-1,187	-1,185	-1,210	-1,257	-1,287	-1,341

**Table 14. Ghana Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	155	156	157	163	168	180	194	208	222	236	249
(Metric Tons per Hectare)											
Yield	1.66	1.61	1.61	1.66	1.70	1.75	1.80	1.85	1.90	1.96	1.98
(Thousand Metric Tons)											
Production	258	252	253	270	285	315	349	385	423	462	494
Beginning Stocks	65	65	118	124	129	134	137	139	141	144	147
Domestic Supply	323	317	371	394	415	449	487	524	564	606	641
Consumption	578	591	621	647	671	687	694	706	722	737	752
Ending Stocks	65	118	124	129	134	137	139	141	144	147	150
Domestic Use	643	709	745	776	805	824	833	847	867	884	902
Net Trade	-320	-392	-373	-382	-391	-375	-346	-323	-303	-278	-261

**Table 15. Guinea Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	900	881	888	883	887	903	915	935	952	969	979
(Metric Tons per Hectare)											
Yield	1.08	1.05	1.06	1.06	1.07	1.08	1.09	1.10	1.11	1.11	1.12
(Thousand Metric Tons)											
Production	975	922	937	940	952	976	997	1,026	1,053	1,079	1,098
Beginning Stocks	0	0	11	14	16	18	18	18	19	20	22
Domestic Supply	975	922	948	954	968	994	1,015	1,045	1,073	1,099	1,120
Consumption	1,200	1,173	1,205	1,239	1,305	1,335	1,376	1,414	1,460	1,527	1,559
Ending Stocks	0	11	14	16	18	18	18	19	20	22	23
Domestic Use	1,200	1,184	1,220	1,255	1,323	1,354	1,395	1,434	1,480	1,550	1,582
Net Trade	-225	-262	-271	-300	-355	-360	-379	-389	-407	-451	-462

**Table 16. Chinese - Hong Kong Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Metric Tons)											
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	410	407	410	414	419	419	423	426	430	437	436
Ending Stocks	0	0	0	0	0	0	0	0	0	0	0
Domestic Use	410	407	410	414	419	419	423	426	430	437	436
Net Trade	-410	-407	-410	-414	-419	-419	-423	-426	-430	-437	-436

**Table 17. Indian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	44,000	44,441	44,620	44,791	44,958	45,033	45,103	45,192	45,279	45,328	45,426
(Metric Tons per Hectare)											
Yield	2.16	2.18	2.21	2.24	2.27	2.32	2.37	2.41	2.42	2.47	2.47
(Thousand Metric Tons)											
Production	95,000	96,859	98,806	100,539	102,125	104,505	106,815	108,741	109,394	111,825	112,099
Beginning Stocks	20,500	18,000	15,967	14,629	13,639	13,008	13,379	14,511	16,037	16,710	18,550
Domestic Supply	115,500	114,859	114,774	115,168	115,764	117,513	120,194	123,253	125,431	128,535	130,649
Consumption	95,000	96,334	97,665	98,966	99,032	100,349	101,613	102,909	104,209	105,513	108,033
Ending Stocks	18,000	15,967	14,629	13,639	13,008	13,379	14,511	16,037	16,710	18,550	19,340
Domestic Use	113,000	112,302	112,294	112,605	112,040	113,728	116,124	118,945	120,918	124,063	127,374
Net Trade	2,500	2,557	2,480	2,563	3,724	3,785	4,070	4,307	4,513	4,472	3,275

**Table 18. Indonesian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	12,100	12,070	12,051	12,167	12,205	12,069	12,054	12,004	12,030	12,012	12,015
(Metric Tons per Hectare)											
Yield	3.14	3.14	3.14	3.17	3.19	3.24	3.29	3.33	3.38	3.42	3.43
(Thousand Metric Tons)											
Production	38,000	37,938	37,827	38,553	38,988	39,137	39,661	40,008	40,612	41,061	41,213
Beginning Stocks	6,577	6,977	7,401	7,375	7,276	7,149	6,913	6,743	6,647	6,599	6,578
Domestic Supply	44,577	44,915	45,228	45,929	46,264	46,286	46,574	46,751	47,259	47,660	47,791
Consumption	38,550	38,613	38,866	39,516	40,212	40,636	41,111	41,413	41,898	42,297	42,510
Ending Stocks	6,977	7,401	7,375	7,276	7,149	6,913	6,743	6,647	6,599	6,578	6,569
Domestic Use	45,527	46,014	46,241	46,792	47,361	47,549	47,854	48,060	48,497	48,875	49,079
Net Trade	-950	-1,099	-1,014	-864	-1,098	-1,263	-1,280	-1,309	-1,238	-1,215	-1,288

**Table 19. Iranian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	630	632	632	634	635	633	632	632	632	630	632
(Metric Tons per Hectare)											
Yield	3.25	3.21	3.21	3.22	3.24	3.27	3.30	3.37	3.39	3.42	3.44
(Thousand Metric Tons)											
Production	2,050	2,029	2,028	2,040	2,058	2,068	2,083	2,129	2,144	2,155	2,177
Beginning Stocks	460	360	387	405	423	448	469	487	508	532	558
Domestic Supply	2,510	2,389	2,415	2,445	2,481	2,515	2,552	2,616	2,652	2,687	2,735
Consumption	3,350	3,380	3,410	3,469	3,574	3,633	3,687	3,764	3,854	3,947	3,934
Ending Stocks	360	387	405	423	448	469	487	508	532	558	569
Domestic Use	3,710	3,767	3,815	3,892	4,022	4,102	4,174	4,272	4,387	4,505	4,503
Net Trade	-1,200	-1,377	-1,400	-1,447	-1,541	-1,586	-1,623	-1,656	-1,735	-1,818	-1,768

**Table 20. Iraqi Rice Supply and Utilization**

	<b>10/11</b>	<b>11/12</b>	<b>12/13</b>	<b>13/14</b>	<b>14/15</b>	<b>15/16</b>	<b>16/17</b>	<b>17/18</b>	<b>18/19</b>	<b>19/20</b>	<b>20/21</b>
(Thousand Hectares)											
Area Harvested	50	57	61	65	69	72	77	82	86	90	92
(Metric Tons per Hectare)											
Yield	1.60	1.62	1.63	1.64	1.65	1.66	1.68	1.70	1.71	1.72	1.73
(Thousand Metric Tons)											
Production	80	91	100	107	114	120	129	138	147	155	160
Beginning Stocks	113	113	160	188	210	229	247	265	281	295	308
Domestic Supply	193	204	260	295	324	349	377	403	428	450	467
Consumption	1,230	1,260	1,328	1,392	1,462	1,528	1,590	1,636	1,682	1,730	1,775
Ending Stocks	113	160	188	210	229	247	265	281	295	308	320
Domestic Use	1,343	1,420	1,516	1,602	1,691	1,775	1,854	1,917	1,977	2,038	2,095
Net Trade	-1,150	-1,216	-1,256	-1,307	-1,366	-1,427	-1,478	-1,514	-1,550	-1,588	-1,628

**Table 21. Ivory Coast Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	380	356	350	364	364	350	345	339	337	332	321
(Metric Tons per Hectare)											
Yield	1.05	1.04	1.04	1.05	1.06	1.09	1.11	1.13	1.15	1.17	1.19
(Thousand Metric Tons)											
Production	399	369	365	381	386	380	384	382	388	387	383
Beginning Stocks	50	70	261	270	279	294	303	314	325	336	345
Domestic Supply	449	439	626	651	666	674	687	696	713	723	728
Consumption	1,279	1,304	1,351	1,397	1,471	1,515	1,569	1,625	1,678	1,726	1,780
Ending Stocks	70	261	270	279	294	303	314	325	336	345	356
Domestic Use	1,349	1,565	1,621	1,676	1,765	1,819	1,883	1,950	2,014	2,071	2,136
Net Trade	-900	-1,125	-995	-1,025	-1,099	-1,144	-1,196	-1,254	-1,301	-1,348	-1,408

**Table 22. Japanese Rice Supply and Utilization**

**Table 23. Kenya Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	17	17	17	17	17	17	17	17	17	17	17
(Metric Tons per Hectare)											
Yield	2.53	2.52	2.54	2.57	2.61	2.65	2.68	2.72	2.75	2.78	2.82
(Thousand Metric Tons)											
Production	43	43	43	44	45	45	46	47	47	48	48
Beginning Stocks	103	82	150	142	139	141	134	132	129	127	122
Domestic Supply	146	125	193	186	183	186	180	178	176	175	170
Consumption	304	299	306	321	352	361	380	397	418	430	431
Ending Stocks	82	150	142	139	141	134	132	129	127	122	112
Domestic Use	386	448	448	460	492	495	512	526	545	551	544
Net Trade	-240	-323	-255	-274	-309	-309	-332	-348	-369	-376	-373

**Table 24. Malaysian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	665	649	640	650	659	669	676	680	681	682	684
(Metric Tons per Hectare)											
Yield	2.41	2.40	2.42	2.43	2.43	2.43	2.44	2.45	2.46	2.47	2.47
(Thousand Metric Tons)											
Production	1,600	1,561	1,548	1,576	1,602	1,629	1,651	1,665	1,673	1,681	1,691
Beginning Stocks	740	720	799	773	758	769	777	785	791	798	805
Domestic Supply	2,340	2,281	2,346	2,349	2,360	2,398	2,428	2,450	2,465	2,479	2,496
Consumption	2,639	2,683	2,725	2,781	2,833	2,884	2,929	2,973	3,015	3,062	3,103
Ending Stocks	720	799	773	758	769	777	785	791	798	805	812
Domestic Use	3,359	3,481	3,499	3,539	3,602	3,661	3,713	3,765	3,813	3,866	3,915
Net Trade	-1,019	-1,201	-1,152	-1,190	-1,242	-1,263	-1,286	-1,315	-1,349	-1,387	-1,420

**Table 25. Mali Rice Supply and Utilization**

	<b>10/11</b>	<b>11/12</b>	<b>12/13</b>	<b>13/14</b>	<b>14/15</b>	<b>15/16</b>	<b>16/17</b>	<b>17/18</b>	<b>18/19</b>	<b>19/20</b>	<b>20/21</b>
(Thousand Hectares)											
Area Harvested	575	567	566	585	597	600	610	618	627	636	642
(Metric Tons per Hectare)											
Yield	2.07	2.07	2.10	2.15	2.19	2.24	2.29	2.34	2.39	2.44	2.47
(Thousand Metric Tons)											
Production	1,188	1,177	1,189	1,255	1,306	1,343	1,398	1,448	1,498	1,551	1,588
Beginning Stocks	85	100	110	112	113	116	117	119	121	123	125
Domestic Supply	1,273	1,277	1,300	1,367	1,419	1,459	1,515	1,567	1,619	1,674	1,713
Consumption	1,273	1,311	1,344	1,387	1,456	1,494	1,539	1,586	1,636	1,694	1,724
Ending Stocks	100	110	112	113	116	117	119	121	123	125	126
Domestic Use	1,373	1,421	1,455	1,501	1,572	1,612	1,658	1,707	1,758	1,820	1,850
Net Trade	-100	-145	-156	-134	-153	-153	-143	-139	-139	-146	-137

**Table 26. Mexican Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	50	50	51	52	52	52	53	53	53	53	53
(Metric Tons per Hectare)											
Yield	3.20	3.15	3.22	3.20	3.18	3.17	3.17	3.22	3.23	3.17	3.23
(Thousand Metric Tons)											
Production	160	158	165	165	167	167	168	171	172	169	172
Beginning Stocks	171	156	186	215	219	224	223	224	227	228	230
Domestic Supply	331	314	351	381	386	390	391	395	399	397	401
Consumption	820	844	867	896	925	954	984	1,013	1,045	1,079	1,109
Ending Stocks	156	186	215	219	224	223	224	227	228	230	230
Domestic Use	976	1,029	1,083	1,116	1,149	1,177	1,208	1,240	1,273	1,309	1,339
Net Trade	-645	-715	-732	-735	-763	-787	-817	-845	-874	-911	-938

**Table 27. Mozambique Rice Supply and Utilization**

	<b>10/11</b>	<b>11/12</b>	<b>12/13</b>	<b>13/14</b>	<b>14/15</b>	<b>15/16</b>	<b>16/17</b>	<b>17/18</b>	<b>18/19</b>	<b>19/20</b>	<b>20/21</b>
(Thousand Hectares)											
Area Harvested	182	183	186	189	193	195	198	201	204	207	209
(Metric Tons per Hectare)											
Yield	0.65	0.66	0.67	0.67	0.68	0.69	0.69	0.70	0.71	0.71	0.72
(Thousand Metric Tons)											
Production	119	121	124	128	131	134	138	141	144	147	150
Beginning Stocks	0	0	11	11	12	13	14	14	15	16	17
Domestic Supply	119	121	135	139	143	147	151	155	159	163	168
Consumption	519	542	556	571	601	617	636	656	678	713	711
Ending Stocks	0	11	11	12	13	14	14	15	16	17	17
Domestic Use	519	553	568	583	615	631	651	671	694	731	729
Net Trade	-400	-432	-433	-444	-472	-484	-500	-516	-535	-568	-561

**Table 28. Myanmari Rice Supply and Utilization**

	<b>10/11</b>	<b>11/12</b>	<b>12/13</b>	<b>13/14</b>	<b>14/15</b>	<b>15/16</b>	<b>16/17</b>	<b>17/18</b>	<b>18/19</b>	<b>19/20</b>	<b>20/21</b>
(Thousand Hectares)											
Area Harvested	7,100	7,046	7,088	7,123	7,155	7,167	7,192	7,203	7,215	7,225	7,257
(Metric Tons per Hectare)											
Yield	1.48	1.59	1.60	1.62	1.63	1.65	1.67	1.69	1.71	1.72	1.75
(Thousand Metric Tons)											
Production	10,500	11,173	11,346	11,510	11,648	11,860	12,010	12,177	12,307	12,454	12,703
Beginning Stocks	338	238	589	791	877	860	775	699	666	643	652
Domestic Supply	10,838	11,411	11,935	12,301	12,525	12,720	12,784	12,876	12,973	13,097	13,355
Consumption	10,100	10,163	10,262	10,378	10,546	10,656	10,780	10,885	11,003	11,146	11,259
Ending Stocks	238	589	791	877	860	775	699	666	643	652	707
Domestic Use	10,338	10,752	11,053	11,255	11,406	11,431	11,479	11,551	11,645	11,798	11,966
Net Trade	500	659	882	1,046	1,118	1,289	1,305	1,325	1,328	1,299	1,389

**Table 29. Nigerian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	2,450	2,439	2,455	2,484	2,514	2,546	2,557	2,573	2,575	2,573	2,569
(Metric Tons per Hectare)											
Yield	1.47	1.47	1.48	1.49	1.50	1.54	1.60	1.66	1.70	1.76	1.81
(Thousand Metric Tons)											
Production	3,600	3,585	3,644	3,697	3,777	3,913	4,094	4,259	4,375	4,538	4,644
Beginning Stocks	470	470	579	687	781	858	831	801	779	763	753
Domestic Supply	4,070	4,055	4,223	4,384	4,558	4,771	4,925	5,059	5,154	5,301	5,396
Consumption	5,500	5,461	5,569	5,712	5,950	6,174	6,414	6,585	6,736	6,881	6,994
Ending Stocks	470	579	687	781	858	831	801	779	763	753	745
Domestic Use	5,970	6,041	6,257	6,493	6,808	7,005	7,215	7,364	7,500	7,633	7,739
Net Trade	-1,900	-1,986	-2,034	-2,109	-2,251	-2,234	-2,290	-2,305	-2,346	-2,332	-2,343

**Table 30. Pakistani Rice Supply and Utilization**

	<b>10/11</b>	<b>11/12</b>	<b>12/13</b>	<b>13/14</b>	<b>14/15</b>	<b>15/16</b>	<b>16/17</b>	<b>17/18</b>	<b>18/19</b>	<b>19/20</b>	<b>20/21</b>
(Thousand Hectares)											
Area Harvested	2,400	2,579	2,616	2,685	2,719	2,700	2,722	2,770	2,834	2,856	2,804
(Metric Tons per Hectare)											
Yield	2.08	2.35	2.34	2.36	2.38	2.39	2.41	2.44	2.46	2.49	2.51
(Thousand Metric Tons)											
Production	5,000	6,052	6,122	6,338	6,466	6,464	6,562	6,750	6,986	7,102	7,032
Beginning Stocks	1,300	650	871	904	941	1,143	1,205	1,233	1,253	1,297	1,458
Domestic Supply	6,300	6,702	6,994	7,242	7,407	7,607	7,767	7,982	8,239	8,400	8,490
Consumption	3,000	3,035	3,106	3,186	3,294	3,369	3,447	3,519	3,584	3,658	3,695
Ending Stocks	650	871	904	941	1,143	1,205	1,233	1,253	1,297	1,458	1,325
Domestic Use	3,650	3,906	4,011	4,127	4,437	4,574	4,680	4,772	4,881	5,116	5,020
Net Trade	2,650	2,796	2,983	3,115	2,970	3,033	3,087	3,210	3,358	3,284	3,470

**Table 31. Philippine Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	4,450	4,513	4,519	4,531	4,542	4,564	4,587	4,605	4,619	4,629	4,647
(Metric Tons per Hectare)											
Yield	2.36	2.51	2.53	2.58	2.58	2.60	2.63	2.68	2.70	2.74	2.73
(Thousand Metric Tons)											
Production	10,500	11,329	11,422	11,685	11,710	11,857	12,067	12,360	12,486	12,696	12,698
Beginning Stocks	3,345	2,345	2,596	2,866	3,125	3,146	3,103	3,124	3,158	3,188	3,221
Domestic Supply	13,845	13,674	14,018	14,551	14,835	15,002	15,170	15,485	15,644	15,884	15,919
Consumption	13,500	13,694	13,748	13,935	14,470	14,767	15,065	15,289	15,561	15,943	16,131
Ending Stocks	2,345	2,596	2,866	3,125	3,146	3,103	3,124	3,158	3,188	3,221	3,215
Domestic Use	15,845	16,290	16,613	17,060	17,615	17,871	18,189	18,447	18,749	19,163	19,346
Net Trade	-2,000	-2,616	-2,595	-2,509	-2,781	-2,868	-3,020	-2,962	-3,105	-3,279	-3,427

**Table 32. Saudi Arabian Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	342	352	452	505	508	511	514	517	519	522	525
Domestic Supply	342	352	452	505	508	511	514	517	519	522	525
Consumption	1,070	1,106	1,138	1,171	1,203	1,228	1,258	1,286	1,315	1,348	1,371
Ending Stocks	352	452	505	508	511	514	517	519	522	525	528
Domestic Use	1,422	1,557	1,643	1,679	1,714	1,743	1,774	1,806	1,837	1,873	1,899
Net Trade	-1,080	-1,205	-1,192	-1,174	-1,206	-1,231	-1,260	-1,289	-1,318	-1,350	-1,374

**Table 33. Senegal Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	135	136	136	140	142	147	149	150	150	150	149
(Metric Tons per Hectare)											
Yield	2.52	2.52	2.52	2.53	2.54	2.55	2.57	2.58	2.59	2.60	2.61
(Thousand Metric Tons)											
Production	340	343	344	355	361	374	383	386	389	390	389
Beginning Stocks	104	114	212	318	328	336	294	303	311	319	328
Domestic Supply	444	457	556	674	689	710	677	689	699	709	717
Consumption	1,020	1,058	1,092	1,139	1,181	1,222	1,263	1,305	1,347	1,391	1,433
Ending Stocks	114	212	318	328	336	294	303	311	319	328	337
Domestic Use	1,134	1,270	1,410	1,467	1,517	1,516	1,566	1,616	1,667	1,719	1,770
Net Trade	-690	-813	-854	-793	-828	-805	-889	-927	-967	-1,009	-1,053

**Table 34. Sierra Leone Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	660	660	661	663	665	667	671	674	679	683	689
(Metric Tons per Hectare)											
Yield	0.70	0.71	0.72	0.73	0.75	0.76	0.79	0.81	0.83	0.85	0.88
(Thousand Metric Tons)											
Production	465	469	475	486	497	510	528	548	562	578	607
Beginning Stocks	0	0	1	1	2	3	4	4	5	6	7
Domestic Supply	465	469	475	487	499	513	532	552	568	584	614
Consumption	600	614	630	649	676	695	716	735	759	783	808
Ending Stocks	0	1	1	2	3	4	4	5	6	7	8
Domestic Use	600	614	631	651	679	698	720	740	765	790	815
Net Trade	-135	-145	-156	-164	-180	-186	-188	-188	-198	-206	-202

**Table 35. South African Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	0	0	0	0	0	0	0	0	0	0	0
(Metric Tons per Hectare)											
Yield	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Thousand Metric Tons)											
Production	0	0	0	0	0	0	0	0	0	0	0
Beginning Stocks	58	78	171	269	273	285	236	191	195	200	208
Domestic Supply	58	78	171	269	273	285	236	191	195	200	208
Consumption	850	855	845	866	923	931	954	977	1,002	1,038	1,054
Ending Stocks	78	171	269	273	285	236	191	195	200	208	211
Domestic Use	928	1,026	1,114	1,140	1,207	1,167	1,145	1,172	1,203	1,246	1,265
Net Trade	-870	-948	-943	-871	-934	-883	-909	-981	-1,007	-1,045	-1,057

**Table 36. South Korean Rice Supply and Utilization**

**Table 37. Taiwanese Rice Supply and Utilization**

**Table 38. Tanzania Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	700	703	705	707	709	710	712	713	714	715	715
(Metric Tons per Hectare)											
Yield	1.31	1.28	1.30	1.32	1.34	1.36	1.38	1.39	1.41	1.43	1.45
(Thousand Metric Tons)											
Production	916	900	917	933	949	964	979	993	1,007	1,020	1,033
Beginning Stocks	0	0	4	5	6	8	10	11	12	13	15
Domestic Supply	916	900	921	938	955	972	989	1,004	1,019	1,034	1,048
Consumption	1,006	1,015	1,044	1,076	1,126	1,166	1,196	1,225	1,253	1,292	1,323
Ending Stocks	0	4	5	6	8	10	11	12	13	15	16
Domestic Use	1,006	1,019	1,050	1,082	1,134	1,176	1,207	1,237	1,266	1,307	1,338
Net Trade	-90	-118	-128	-144	-179	-204	-219	-233	-247	-273	-290

**Table 39. Thai Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	10,930	10,815	10,814	10,837	10,914	10,978	10,988	11,131	11,279	11,358	11,470
(Metric Tons per Hectare)											
Yield	1.86	1.85	1.85	1.87	1.88	1.89	1.92	1.95	1.96	1.99	2.02
(Thousand Metric Tons)											
Production	20,350	20,058	20,044	20,253	20,466	20,800	21,054	21,712	22,118	22,610	23,117
Beginning Stocks	6,547	6,997	7,084	6,560	6,681	5,741	4,843	4,101	3,927	4,017	4,452
Domestic Supply	26,897	27,055	27,128	26,813	27,147	26,541	25,897	25,814	26,045	26,626	27,569
Consumption	10,200	10,250	10,270	10,325	10,398	10,440	10,465	10,480	10,514	10,552	10,563
Ending Stocks	6,997	7,084	6,560	6,681	5,741	4,843	4,101	3,927	4,017	4,452	4,366
Domestic Use	17,197	17,334	16,830	17,006	16,139	15,283	14,567	14,407	14,531	15,005	14,930
Net Trade	9,700	9,722	10,298	9,807	11,008	11,258	11,330	11,407	11,514	11,622	12,639

**Table 40. Turkish Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	105	104	104	103	103	103	102	102	102	101	101
(Metric Tons per Hectare)											
Yield	4.29	4.14	4.22	4.26	4.28	4.30	4.36	4.40	4.44	4.50	4.57
(Thousand Metric Tons)											
Production	450	431	437	441	441	441	446	449	451	457	462
Beginning Stocks	400	550	424	447	472	510	530	557	589	624	646
Domestic Supply	850	981	861	888	914	951	976	1,006	1,040	1,080	1,108
Consumption	650	737	751	765	784	795	808	823	839	849	863
Ending Stocks	550	424	447	472	510	530	557	589	624	646	678
Domestic Use	1,200	1,161	1,198	1,237	1,294	1,325	1,365	1,412	1,463	1,495	1,542
Net Trade	-350	-179	-337	-349	-380	-374	-389	-406	-423	-415	-434

**Table 41. Uruguayan Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	165	165	168	174	179	181	187	192	196	201	204
(Metric Tons per Hectare)											
Yield	5.60	5.62	5.68	5.73	5.78	5.86	5.94	6.02	6.10	6.18	6.26
(Thousand Metric Tons)											
Production	925	929	956	997	1,035	1,060	1,108	1,154	1,197	1,242	1,275
Beginning Stocks	32	82	140	141	141	141	141	141	141	141	142
Domestic Supply	957	1,011	1,097	1,138	1,176	1,200	1,249	1,295	1,338	1,383	1,416
Consumption	60	60	60	61	62	62	62	63	63	65	65
Ending Stocks	82	140	141	141	141	141	141	141	141	142	142
Domestic Use	142	201	201	201	203	203	203	204	204	206	207
Net Trade	815	811	896	936	973	998	1,046	1,091	1,134	1,177	1,210

**Table 42. Vietnamese Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	7,390	7,237	7,153	7,111	7,105	7,115	7,121	7,120	7,117	7,110	7,102
(Metric Tons per Hectare)											
Yield	3.38	3.54	3.59	3.66	3.68	3.71	3.75	3.77	3.79	3.82	3.84
(Thousand Metric Tons)											
Production	24,983	25,651	25,655	26,011	26,176	26,408	26,676	26,817	26,966	27,132	27,285
Beginning Stocks	1,456	1,639	1,802	1,922	1,978	2,101	2,049	1,914	1,965	2,005	2,013
Domestic Supply	26,439	27,290	27,457	27,933	28,153	28,509	28,725	28,730	28,931	29,137	29,297
Consumption	19,500	19,727	19,751	19,987	20,420	20,575	20,787	20,931	21,115	21,392	21,364
Ending Stocks	1,639	1,802	1,922	1,978	2,101	2,049	1,914	1,965	2,005	2,013	2,008
Domestic Use	21,139	21,529	21,673	21,964	22,521	22,623	22,701	22,896	23,120	23,405	23,372
Net Trade	5,300	5,761	5,784	5,969	5,632	5,886	6,024	5,835	5,811	5,732	5,926

**Table 43. Rest-of-World Rice Supply and Utilization**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	10,323	9,888	9,771	9,716	9,694	9,710	9,727	9,759	9,787	9,927	9,979
(Metric Tons per Hectare)											
Yield	2.17	2.28	2.30	2.32	2.34	2.39	2.43	2.50	2.57	2.67	2.72
(Thousand Metric Tons)											
Production	22,356	22,559	22,440	22,562	22,723	23,230	23,666	24,362	25,110	26,466	27,180
Beginning Stocks	1,983	1,743	1,692	1,726	1,761	1,827	1,870	1,900	1,928	1,963	2,013
Domestic Supply	24,339	24,302	24,132	24,288	24,485	25,057	25,535	26,262	27,038	28,429	29,193
Consumption	30,089	30,339	30,713	31,312	32,126	32,658	33,245	33,730	34,383	35,064	35,551
Ending Stocks	1,743	1,692	1,726	1,761	1,827	1,870	1,900	1,928	1,963	2,013	2,049
Domestic Use	31,832	32,031	32,440	33,074	33,954	34,528	35,145	35,659	36,346	37,077	37,601
Net Trade	-7,493	-7,729	-8,307	-8,786	-9,469	-9,471	-9,610	-9,397	-9,308	-8,649	-8,408

**Table 44. Per Capita Rice Consumption of Selected Countries**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Kilograms)											
Argentina	8.0	7.9	7.9	8.0	8.2	8.2	8.3	8.5	8.9	8.9	8.9
Australia	15.3	15.7	15.7	16.0	16.0	16.1	16.2	16.3	16.6	16.8	16.8
Bangladesh	209.5	208.8	209.4	209.6	211.0	211.2	211.5	211.6	212.0	212.3	212.6
Brazil	42.5	40.8	41.2	41.4	41.7	42.0	42.2	42.5	42.6	42.8	43.0
Cambodia	274.7	274.7	278.2	279.0	280.7	282.0	282.5	283.1	284.1	284.5	284.6
Cameroon	20.1	21.2	22.1	23.3	24.7	25.0	25.4	26.2	27.2	27.7	27.3
Canada	10.1	9.9	9.6	9.8	11.2	11.4	11.7	12.0	12.4	12.7	12.7
China	94.0	93.8	93.2	92.9	93.0	92.5	92.1	91.3	90.7	90.2	89.5
Egypt	42.3	46.5	46.2	46.2	46.0	45.8	45.6	45.4	45.1	44.9	44.7
European Union-27	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.5	6.6	6.7
Ghana	23.7	23.8	24.6	25.2	25.7	25.8	25.7	25.7	25.9	26.0	26.1
Guinea	116.2	110.7	110.7	110.9	113.8	113.4	113.8	113.9	114.6	116.8	116.2
China - Hong Kong	57.8	57.2	57.3	57.7	58.2	57.9	58.3	58.6	58.9	59.7	59.6
India	81.0	81.0	81.0	81.1	80.1	80.2	80.2	80.3	80.4	80.4	81.5
Indonesia	158.7	157.2	156.6	157.6	158.8	158.9	159.2	158.9	159.3	159.5	158.9
Iran	43.5	43.4	43.2	43.4	44.2	44.4	44.5	44.9	45.5	46.1	45.5
Iraq	41.5	41.5	42.7	43.7	44.9	45.9	46.7	47.1	47.4	47.8	48.1
Ivory Coast	60.7	60.6	61.5	62.4	64.4	65.1	66.1	67.2	68.1	68.9	69.8
Japan	64.1	64.4	64.0	63.9	63.8	63.8	63.6	63.5	63.4	63.3	62.8
Kenya	7.6	7.3	7.3	7.5	8.0	8.1	8.3	8.6	8.9	9.0	8.9
Malaysia	93.3	93.4	93.4	93.9	94.2	94.5	94.6	94.7	94.8	95.0	95.0
Mali	92.3	92.6	92.5	93.0	95.1	95.1	95.4	95.8	96.2	97.2	96.4
Mexico	7.3	7.4	7.5	7.7	7.9	8.0	8.2	8.4	8.5	8.7	8.9
Mozambique	23.5	24.1	24.3	24.5	25.3	25.5	25.9	26.2	26.6	27.4	26.9
Myanmar (Burma)	189.1	188.2	188.0	188.1	189.2	189.2	189.5	189.4	189.6	190.3	190.4



**Table 45. Yield Per Hectare of Selected Countries**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Kilograms)											
Argentina	4.5	4.6	4.6	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1
Australia	7.0	7.0	7.0	7.1	7.2	7.3	7.3	7.4	7.4	7.5	7.6
Bangladesh	2.7	2.7	2.8	2.8	2.8	2.9	2.9	2.9	3.0	3.0	3.1
Brazil	3.1	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.4	3.4
Cambodia	1.7	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.1
Cameroon	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3
Canada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	4.7	4.6	4.7	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Egypt	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.7	6.7	6.8	6.8
European Union-27	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.4
Ghana	1.7	1.6	1.6	1.7	1.7	1.7	1.8	1.9	1.9	2.0	2.0
Guinea	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
China - Hong Kong	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
India	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.5	2.5
Indonesia	3.1	3.1	3.1	3.2	3.2	3.2	3.3	3.3	3.4	3.4	3.4
Iran	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.4
Iraq	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Ivory Coast	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.2
Japan	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9
Kenya	2.5	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.8
Malaysia	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5
Mali	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.5
Mexico	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Mozambique	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Myanmar (Burma)	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.8
Nigeria	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.7	1.7	1.8	1.8

Pakistan	2.1	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5
Philippines	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7
Saudi Arabia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Senegal	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6
Sierra Leone	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Korea	4.8	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Taiwan	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Tanzania	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4
Thailand	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0
Turkey	4.3	4.1	4.2	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.6
United States	5.1	5.6	5.6	5.7	5.7	5.8	5.9	5.9	6.0	6.0	6.1
Uruguay	5.6	5.6	5.7	5.7	5.8	5.9	5.9	6.0	6.1	6.2	6.3
Vietnam	3.4	3.5	3.6	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.8
Rest of World	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.6	2.7	2.7
World	2.8	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.1

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## WORLD REGIONAL RICE SUPPLY AND UTILIZATION

**Table 46a. Africa Rice Supply and Utilization-SUM**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	9,599	9,569	9,602	9,664	9,744	9,812	9,861	9,945	10,006	10,139	10,197
(Metric Tons per Hectare)											
Yield	1.63	1.71	1.75	1.76	1.79	1.82	1.85	1.90	1.95	2.03	2.07
(Thousand Metric Tons)											
Production	15,672	16,406	16,773	17,055	17,428	17,851	18,273	18,932	19,550	20,533	21,102
Beginning Stocks	1,464	1,168	1,898	2,392	2,642	2,858	2,798	2,783	2,818	2,859	2,903
Domestic Supply	17,136	17,574	18,670	19,447	20,069	20,709	21,071	21,715	22,368	23,392	24,005
Consumption	24,742	25,426	26,139	27,006	28,098	28,891	29,741	30,518	31,352	32,184	32,801
Ending Stocks	1,168	1,898	2,392	2,642	2,858	2,798	2,783	2,818	2,859	2,903	2,906
Domestic Use	25,910	27,324	28,531	29,648	30,956	31,689	32,524	33,335	34,211	35,086	35,707
Net Trade	-8,774	-9,749	-9,861	-10,201	-10,886	-10,980	-11,453	-11,621	-11,843	-11,695	-11,702

**Table 46b. Africa Rice Supply and Utilization-Modeled Countries**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	6,689	6,754	6,817	6,903	6,973	7,041	7,100	7,164	7,215	7,260	7,285
(Metric Tons per Hectare)											
Yield	1.72	1.80	1.83	1.85	1.86	1.89	1.92	1.96	1.98	2.02	2.05
(Thousand Metric Tons)											
Production	11,481	12,140	12,497	12,762	12,996	13,290	13,665	14,013	14,310	14,678	14,938
Beginning Stocks	1,434	1,158	1,814	2,302	2,546	2,746	2,672	2,652	2,683	2,719	2,758
Domestic Supply	12,915	13,298	14,310	15,064	15,542	16,036	16,337	16,665	16,993	17,397	17,696
Consumption	17,917	18,455	18,875	19,423	20,227	20,788	21,397	21,949	22,511	23,102	23,511
Ending Stocks	1,158	1,814	2,302	2,546	2,746	2,672	2,652	2,683	2,719	2,758	2,757
Domestic Use	19,075	20,268	21,177	21,969	22,974	23,461	24,049	24,632	25,229	25,861	26,268
Net Trade	-6,160	-6,970	-6,867	-6,904	-7,432	-7,425	-7,712	-7,967	-8,237	-8,464	-8,572

**Table 46c. Africa Rice Supply and Utilization-OTHER**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	2,910	2,815	2,786	2,761	2,771	2,772	2,761	2,782	2,791	2,879	2,912
(Metric Tons per Hectare)											
Yield	1.44	1.52	1.54	1.55	1.60	1.65	1.67	1.77	1.88	2.03	2.12
(Thousand Metric Tons)											
Production	4,191	4,266	4,276	4,293	4,432	4,562	4,608	4,919	5,240	5,855	6,165
Beginning Stocks	30	10	84	90	96	111	126	130	135	140	145
Domestic Supply	4,221	4,276	4,360	4,382	4,528	4,673	4,734	5,050	5,375	5,995	6,309
Consumption	6,825	6,971	7,264	7,583	7,870	8,102	8,344	8,568	8,841	9,081	9,290
Ending Stocks	10	84	90	96	111	126	130	135	140	145	149
Domestic Use	6,835	7,056	7,354	7,679	7,982	8,228	8,475	8,703	8,981	9,226	9,439
Net Trade	-2,614	-2,779	-2,994	-3,296	-3,454	-3,555	-3,741	-3,654	-3,606	-3,231	-3,130

**Table 47a. Americas Rice Supply and Utilization-SUM**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	7,115	6,746	6,703	6,728	6,751	6,766	6,804	6,819	6,852	6,908	6,966
(Metric Tons per Hectare)											
Yield	3.55	3.59	3.64	3.67	3.70	3.75	3.79	3.85	3.89	3.94	4.00
(Thousand Metric Tons)											
Production	25,226	24,241	24,406	24,684	25,005	25,341	25,774	26,222	26,683	27,241	27,867
Beginning Stocks	3,556	3,778	3,788	3,709	3,679	3,682	3,755	3,809	3,901	3,953	4,051
Domestic Supply	28,782	28,019	28,195	28,394	28,684	29,023	29,529	30,032	30,584	31,194	31,918
Consumption	23,123	22,824	23,228	23,593	24,080	24,437	24,775	25,166	25,505	25,959	26,309
Ending Stocks	3,778	3,788	3,709	3,679	3,682	3,755	3,809	3,901	3,953	4,051	4,118
Domestic Use	26,901	26,613	26,938	27,272	27,762	28,191	28,585	29,067	29,458	30,010	30,428
Net Trade	1,881	1,406	1,257	1,122	922	831	944	964	1,127	1,184	1,491

**Table 47b. Americas Rice Supply and Utilization-Modeled Countries**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	4,658	4,336	4,312	4,327	4,358	4,378	4,414	4,428	4,460	4,515	4,575
(Metric Tons per Hectare)											
Yield	3.87	3.93	4.01	4.05	4.09	4.14	4.19	4.24	4.28	4.33	4.37
(Thousand Metric Tons)											
Production	18,018	17,060	17,293	17,519	17,820	18,108	18,494	18,755	19,103	19,548	20,015
Beginning Stocks	2,194	2,681	2,590	2,483	2,428	2,392	2,442	2,475	2,545	2,573	2,632
Domestic Supply	20,212	19,741	19,883	20,001	20,248	20,500	20,935	21,230	21,649	22,121	22,647
Consumption	14,101	13,834	14,096	14,337	14,629	14,871	15,104	15,387	15,603	15,864	16,064
Ending Stocks	2,681	2,590	2,483	2,428	2,392	2,442	2,475	2,545	2,573	2,632	2,669
Domestic Use	16,782	16,424	16,578	16,765	17,022	17,312	17,579	17,933	18,176	18,496	18,733
Net Trade	3,430	3,318	3,305	3,237	3,226	3,188	3,356	3,297	3,473	3,625	3,914

**Table 47c. Americas Rice Supply and Utilization-OTHER**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	2,457	2,410	2,391	2,401	2,393	2,388	2,390	2,391	2,392	2,393	2,391
(Metric Tons per Hectare)											
Yield	2.93	2.98	2.98	2.98	3.00	3.03	3.05	3.12	3.17	3.22	3.28
(Thousand Metric Tons)											
Production	7,208	7,181	7,113	7,166	7,185	7,233	7,280	7,468	7,580	7,693	7,852
Beginning Stocks	1,362	1,097	1,198	1,227	1,251	1,290	1,313	1,334	1,356	1,380	1,419
Domestic Supply	8,570	8,278	8,312	8,392	8,436	8,523	8,594	8,802	8,936	9,074	9,271
Consumption	9,022	8,991	9,133	9,256	9,450	9,566	9,672	9,779	9,901	10,095	10,245
Ending Stocks	1,097	1,198	1,227	1,251	1,290	1,313	1,334	1,356	1,380	1,419	1,449
Domestic Use	10,119	10,189	10,359	10,507	10,740	10,879	11,006	11,135	11,282	11,514	11,694
Net Trade	-1,549	-1,911	-2,048	-2,114	-2,304	-2,357	-2,412	-2,333	-2,346	-2,441	-2,423

**Table 48a. Asia Rice Supply and Utilization-SUM**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	141,670	141,321	141,196	141,750	142,144	141,838	142,053	142,151	142,394	142,437	142,421
(Metric Tons per Hectare)											
Yield	2.88	2.90	2.94	2.96	2.98	3.01	3.03	3.06	3.08	3.11	3.12
(Thousand Metric Tons)											
Production	408,233	410,520	414,572	419,784	423,588	426,319	431,066	435,036	438,018	442,770	443,894
Beginning Stocks	88,548	88,023	86,900	87,047	88,042	87,721	86,890	86,809	88,100	89,022	91,611
Domestic Supply	496,781	498,543	501,472	506,831	511,629	514,040	517,957	521,844	526,118	531,791	535,505
Consumption	399,311	402,273	404,789	408,561	412,655	415,806	419,400	421,869	425,148	428,430	431,751
Ending Stocks	88,023	86,900	87,047	88,042	87,721	86,890	86,809	88,100	89,022	91,611	92,262
Domestic Use	487,334	489,173	491,836	496,603	500,376	502,697	506,209	509,969	514,170	520,042	524,013
Net Trade	9,447	9,370	9,636	10,228	11,253	11,343	11,748	11,876	11,948	11,749	11,492

**Table 48b. Asia Rice Supply and Utilization—Modeled Countries**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	136,950	136,880	136,826	137,421	137,836	137,509	137,698	137,785	138,010	138,001	137,964
(Metric Tons per Hectare)											
Yield	2.91	2.92	2.95	2.98	3.00	3.02	3.05	3.08	3.09	3.12	3.13
(Thousand Metric Tons)											
Production	398,081	400,136	404,278	409,461	413,269	415,696	420,125	423,915	426,607	430,771	431,651
Beginning Stocks	88,086	87,531	86,649	86,798	87,790	87,464	86,630	86,543	87,832	88,749	91,334
Domestic Supply	486,167	487,667	490,927	496,259	501,059	503,159	506,755	510,459	514,439	519,520	522,986
Consumption	386,449	389,249	391,845	395,474	399,276	402,257	405,616	407,936	410,963	414,016	417,212
Ending Stocks	87,531	86,649	86,798	87,790	87,464	86,630	86,543	87,832	88,749	91,334	91,982
Domestic Use	473,980	475,899	478,642	483,264	486,739	488,887	492,160	495,768	499,712	505,350	509,195
Net Trade	12,187	11,768	12,285	12,995	14,320	14,273	14,595	14,691	14,727	14,170	13,791

**Table 48c. Asia Rice Supply and Utilization-OTHER**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	4,720	4,441	4,370	4,328	4,308	4,329	4,355	4,366	4,385	4,436	4,457
(Metric Tons per Hectare)											
Yield	2.15	2.34	2.36	2.38	2.40	2.45	2.51	2.55	2.60	2.70	2.75
(Thousand Metric Tons)											
Production	10,152	10,384	10,294	10,323	10,319	10,623	10,941	11,120	11,411	11,998	12,242
Beginning Stocks	462	492	250	249	252	257	261	265	268	273	277
Domestic Supply	10,614	10,876	10,545	10,572	10,570	10,880	11,202	11,386	11,679	12,271	12,520
Consumption	12,862	13,024	12,945	13,087	13,379	13,550	13,784	13,933	14,185	14,415	14,539
Ending Stocks	492	250	249	252	257	261	265	268	273	277	280
Domestic Use	13,354	13,274	13,194	13,339	13,637	13,810	14,049	14,201	14,458	14,692	14,818
Net Trade	-2,740	-2,398	-2,649	-2,767	-3,067	-2,930	-2,847	-2,815	-2,779	-2,421	-2,299

**Table 49a. European Union 27 Rice Supply and Utilization-SUM**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	696	682	683	688	685	680	683	681	681	680	677
(Metric Tons per Hectare)											
Yield	4.04	3.98	4.01	4.05	4.08	4.12	4.16	4.21	4.26	4.34	4.36
(Thousand Metric Tons)											
Production	2,813	2,711	2,739	2,790	2,798	2,799	2,843	2,869	2,904	2,950	2,952
Beginning Stocks	1,158	1,313	1,274	1,211	1,253	1,335	1,329	1,307	1,286	1,291	1,270
Domestic Supply	3,971	4,024	4,013	4,001	4,051	4,134	4,172	4,176	4,190	4,241	4,222
Consumption	4,125	4,096	4,132	4,183	4,266	4,295	4,327	4,358	4,390	4,465	4,496
Ending Stocks	1,313	1,274	1,211	1,253	1,335	1,329	1,307	1,286	1,291	1,270	1,271
Domestic Use	5,438	5,370	5,343	5,435	5,601	5,624	5,634	5,644	5,681	5,736	5,767
Net Trade	-1,467	-1,346	-1,331	-1,434	-1,550	-1,490	-1,463	-1,468	-1,491	-1,495	-1,545

**Table 49b. European Union 27 Rice Supply and Utilization-Modeled Countries**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	462	462	461	465	466	461	463	463	464	463	461
(Metric Tons per Hectare)											
Yield	4.37	4.32	4.33	4.35	4.34	4.34	4.36	4.38	4.40	4.42	4.43
(Thousand Metric Tons)											
Production	2,020	1,996	1,995	2,022	2,024	1,999	2,021	2,028	2,039	2,045	2,045
Beginning Stocks	1,029	1,169	1,121	1,057	1,096	1,173	1,165	1,144	1,123	1,128	1,105
Domestic Supply	3,049	3,165	3,116	3,079	3,120	3,172	3,186	3,171	3,162	3,173	3,150
Consumption	3,050	3,058	3,084	3,126	3,174	3,194	3,227	3,258	3,291	3,354	3,385
Ending Stocks	1,169	1,121	1,057	1,096	1,173	1,165	1,144	1,123	1,128	1,105	1,106
Domestic Use	4,219	4,179	4,141	4,222	4,347	4,359	4,371	4,381	4,419	4,459	4,491
Net Trade	-1,170	-1,014	-1,025	-1,143	-1,227	-1,187	-1,185	-1,210	-1,257	-1,287	-1,341

**Table 49c. European Union 27 Rice Supply and Utilization-OTHER**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	234	219	222	223	219	219	219	218	218	217	216
(Metric Tons per Hectare)											
Yield	3.39	3.26	3.36	3.44	3.53	3.65	3.75	3.86	3.97	4.17	4.20
(Thousand Metric Tons)											
Production	793	715	743	767	774	800	822	841	865	905	907
Beginning Stocks	129	144	153	155	156	162	163	163	163	163	165
Domestic Supply	922	859	896	922	930	961	986	1,005	1,028	1,068	1,072
Consumption	1,075	1,038	1,048	1,057	1,091	1,101	1,100	1,100	1,099	1,111	1,110
Ending Stocks	144	153	155	156	162	163	163	163	163	165	165
Domestic Use	1,219	1,191	1,202	1,213	1,253	1,264	1,264	1,263	1,262	1,277	1,275
Net Trade	-297	-332	-306	-291	-323	-303	-278	-258	-234	-208	-203

**Table 50a. Oceania Rice Supply and Utilization-SUM**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	85	97	98	97	97	98	98	99	98	98	97
(Metric Tons per Hectare)											
Yield	6.92	6.95	6.99	7.09	7.16	7.22	7.28	7.33	7.40	7.44	7.50
(Thousand Metric Tons)											
Production	585	674	686	689	698	707	714	724	728	729	730
Beginning Stocks	44	86	126	168	227	286	333	418	491	552	607
Domestic Supply	629	760	813	857	925	993	1,048	1,142	1,219	1,281	1,337
Consumption	635	658	670	686	696	706	717	730	745	759	769
Ending Stocks	86	126	168	227	286	333	418	491	552	607	652
Domestic Use	721	784	839	912	982	1,039	1,135	1,221	1,297	1,366	1,421
Net Trade	-92	-24	-26	-55	-57	-47	-88	-79	-79	-85	-85

**Table 50b. Oceania Rice Supply and Utilization—Modeled Countries**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	82	94	96	95	95	95	96	96	96	95	95
(Metric Tons per Hectare)											
Yield	6.98	7.00	7.02	7.13	7.20	7.26	7.32	7.38	7.45	7.49	7.55
(Thousand Metric Tons)											
Production	572	661	673	675	684	693	701	710	714	715	716
Beginning Stocks	44	86	120	162	221	280	327	411	484	545	600
Domestic Supply	616	747	793	838	905	973	1,028	1,122	1,198	1,260	1,316
Consumption	330	342	346	355	361	366	372	380	389	397	403
Ending Stocks	86	120	162	221	280	327	411	484	545	600	645
Domestic Use	416	463	508	576	641	693	784	863	934	997	1,048
Net Trade	200	284	285	262	264	280	244	258	264	263	268

**Table 50c. Oceania Rice Supply and Utilization-OTHER**

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21
(Thousand Hectares)											
Area Harvested	3	3	2	2	2	2	2	2	2	2	2
(Metric Tons per Hectare)											
Yield	5.23	5.27	5.49	5.36	5.40	5.45	5.45	5.48	5.51	5.52	5.53
(Thousand Metric Tons)											
Production	13	13	13	13	13	13	13	14	14	14	14
Beginning Stocks	0	0	6	6	6	6	7	7	7	7	7
Domestic Supply	13	13	19	20	20	20	20	20	20	20	21
Consumption	305	315	324	330	335	340	345	351	356	362	367
Ending Stocks	0	6	6	6	6	7	7	7	7	7	7
Domestic Use	305	321	330	336	341	346	352	358	363	369	374
Net Trade	-292	-308	-311	-317	-322	-327	-332	-337	-343	-348	-353

## **Appendix 1. Rice Policy Assumptions by Country**

INDIA

Import Tariff (MEN) Percent 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0

INDONESIA

JAPAN

KOREA, REPUBLIC OF

MALAYSIA

NIGERIA

PAKISTAN

PHILIPPINES

TRQ import quantity	1000 mt	238.9	238.9	238.9	238.9	238.9	238.9	238.9	238.9	238.9	238.9	238.9
Milled Rice In-quota Tariff	Percent	40.0	40.0	40.0	40.0	40.0	35.0	35.0	35.0	35.0	35.0	35.0

SOUTH AFRICA

Import Tariff (MFN) Percent 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

TAIWAN

## THAILAND

TURKEY

Import Tariff (MFN), paddy Percent 34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0

UNITED STATES

**SENEGAL**

Import Tax/Ad Valorem	Percent	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Add'l Import Tax for Broken Rice	Percent	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
Add'l Import Tax for Whole Rice	Percent	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
Import Tax for Broken & All Rice	CFA/mt	21000	21000	21000	21000	21000	21000	21000	21000	21000	21000	21000

**GHANA**

Import Tax	Percent	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
VAT	Percent	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Other taxes levied on imports	Percent	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Total Duties	Percent	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4

**CAMEROON**

Import Tax	Percent	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
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**MOZAMBIQUE**

Import Tax for Broken Rice	Percent	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Import Tax for Whole Rice	Percent	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

**GUINEA**

Import Tax	Percent	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
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**KENYA**

Import Tax	Percent	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
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**TANZANIA**

Import Tax	Percent	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
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**SIERRA LEONE**

Import Tax	Percent	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
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**MALI**

