

**TABLE 18**

The table below presents a record of the differences between the December projection and the final Estimate. Using world wheat production as an example, the "root mean square error" means that chances are 2 out of 3 that the current forecast will not be above or below the final estimate by more than 0.8 percent. Chances are 9 out of 10 (90% confidence level) that the difference will not exceed 1.4 percent. The average difference between the December projection and the final estimate is 4.0 million tons, ranging from 0.4 million to 10.2 million tons. The December projection has been below the estimate 24 times and above 9 times.

**RELIABILITY OF PRODUCTION PROJECTIONS 1/**

COMMODITY AND REGION	Root mean square error	90 percent confidence interval	Difference between forecast and final estimate				
			Average	Smallest	Largest	Years	
						Below final	Above final
	Percent		---Million metric tons---				
<b>WHEAT</b>							
World	0.8	1.4	4.0	0.4	10.2	24	9
U.S.	0.4	0.7	0.2	0.0	1.2	15	12
Foreign	1.0	1.6	4.0	0.4	10.3	24	9
<b>COARSE GRAINS 2/</b>							
World	1.3	2.3	10.3	0.0	24.2	24	9
U.S.	1.4	2.3	2.4	0.0	7.5	18	15
Foreign	1.9	3.2	10.3	0.3	26.5	23	10
<b>RICE (Milled)</b>							
World	2.0	3.5	5.7	0.0	16.2	26	7
U.S.	3.0	5.0	0.1	0.0	0.5	17	13
Foreign	2.1	3.5	5.7	0.1	16.2	27	6
<b>SOYBEANS</b>							
World	3.9	6.7	5.1	0.1	23.8	19	14
U.S.	2.1	3.5	1.1	0.1	2.7	15	18
Foreign	6.5	11.0	5.2	0.1	25.1	16	17
<b>COTTON</b>			---Million 480-lb. bales---				
World	3.1	5.2	2.3	0.0	6.4	19	13
U.S.	2.0	3.3	0.2	0.0	0.8	16	16
Foreign	3.7	6.2	2.2	0.0	6.7	18	14
<b>UNITED STATES</b>			-----Million bushels-----				
<b>CORN</b>	1.4	2.3	86	0	250	18	14
<b>SORGHUM</b>	4.3	7.2	15	1	53	15	18
<b>BARLEY</b>	1.5	2.5	4	0	24	12	10
<b>OATS</b>	1.2	2.0	2	0	18	7	9

1/ Marketing years 1981/82 through 2013/14. Final for grains, soybeans and cotton is defined as the first November estimates following the marketing year for 1981/82 through 2013/14.

2/ Includes corn, sorghum, barley, oats, rye, millet, and mixed grain