

## Demand Parameters

Table 3 lists the base quantities, base prices, and elasticities in all markets—domestic nonfarm, export, competing imports, and storage/dis-storage. Elasticities in the model can be altered as specified by the user. All quantities and prices are endogenous but can be re-calibrated by the user. Model prices obey the law of one net price. Prices for commodities in different markets may differ slightly because there may be different physical costs such as storage, transportation, and handling required to access different markets.

Table 3

### Disposition activity parameters: Base solution: U.S. aggregate EDMP model, 2002-05 average

#### Domestic nonfarm demands

Activity name	Corn	Soybeans	Wheat	Rice	Barley	Oats	Sorghum
Symbol	SELCRNUS	SELSOYUS	SELWHEUS	SELRICUS	SELBARUS	SELOATUS	SELSRGUS
Base quantity (mil. units)	5033.11	1931.14	1878.65	153.85	177.22	85.71	27.93
Base price (\$/unit)	1.786	4.501	2.602	6.001	2.427	1.266	2.181
Price elasticity	-0.7	-0.99	-0.85	-0.75	-0.67	-0.47	-0.92
Activity name	Cotton	Sugar	Potatoes	Dry beans	Sunflower	Peanuts	Tobacco
Symbol	SELCOTUS	SELSGRUS	SELPOTUS	SELBENUS	SELSNFUS	SELPNTUS	SELTOBUS
Base quantity (mil. units)	5124.59	50.20	446.13	20.45	26.15	3193.88	885.21
Base price (\$/unit)	0.490	38.772	5.457	24.261	13.113	0.218	2.021
Price elasticity	-0.27	-0.50	-0.50	-0.50	-1.00	-0.50	-0.25
Activity name	Hay	Crops NEC	Straw	Cottonseed	Beef	Hogs	Dairy
Symbol	SELHAYUS	SELNCCUS	SELSTRUS	SELCTSUS	SELFDBUS	SELHOGUS	SELMLKUS
Base quantity (mil. units)	94.92	40212.11	10.02	794.26	457.00	236.95	1654.35
Base price (\$/unit)	45.979	0.977	52.528	1.086	69.789	33.520	13.988
Price elasticity	-0.75	-0.50	-1.00	-0.27	-0.52	-0.43	-0.31
Activity name	Sheep/lamb/wool	Broiler	Eggs	Turkey	Livestock NEC		
Symbol	SELSHPUS	SELBRLUS	SELEGGUS	SELTRKUS	SELNCLUS		
Base quantity (mil. units)	794.50	264.13	722.01	40.47	3158.10		
Base price (\$/unit)	1.041	39.168	0.672	37.523	0.999		
Price elasticity	-0.50	-0.63	-0.23	-0.80	-0.75		

#### Export demands

Activity name	Corn	Soybeans	Wheat	Rice	Barley	Oats	Sorghum
Symbol	EXPCRNUS	EXPSOYUS	EXPWHEUS	EXPRICUS	EXPBARUS	EXPOATUS	EXPSRGUS
Base quantity (mil. units)	1885.95	822.09	978.30	72.15	26.62	18.61	36.86
Base price (\$/unit)	1.936	4.961	2.752	6.501	2.427	1.346	2.181
Price elasticity	-1.20	-2.50	-0.85	-2.62	-0.67	-3.93	-1.86
Activity name	Cotton	Dry beans	Sunflower	Peanuts	Tobacco	Beef	Hogs
Symbol	EXPCOTUS	EXPBENUS	EXPSNFUS	EXPPNTUS	EXPTOBUS	EXPBEFUS	EXPHOGUS
Base quantity (mil. units)	3603.22	2.22	2.62	454.58	514.80	21.76	12.40
Base price (\$/unit)	0.525	24.261	13.113	0.218	2.021	69.789	33.520
Price elasticity	-1.34	-1.00	-1.75	-1.75	-1.00	-0.61	-0.6

—continued

Table 3

**Disposition activity parameters: Base solution: U.S. aggregate EDMP model, 2002-05 average—Continued****Export demands—continued**

Activity name	Dairy	Poultry
Symbol	EXPDRYUS	EXPPUUS
Base quantity (mil. units)	29.07	51.68
Base price (\$/unit)	13.988	38.839
Price elasticity	-0.31	-0.67

**Competing import supplies**

Activity name	Corn	Soybeans	Wheat	Rice	Barley	Oats	Sorghum
Symbol	IMPCRNUS	IMPISOYUS	IMPWHEUS	IMPRICUS	IMPBARUS	IMPOATUS	IMPSRGUS
Base quantity (mil. units)	13.32	1.85	38.03	9.20	15.25	1.15	0.64
Base price (\$/unit)	1.936	4.961	2.752	6.501	2.427	1.346	2.181
Price elasticity	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Activity name	Cotton	Beef	Hogs				
Symbol	IMPCOTUS	IMPBEFUS	IMPHOGUS				
Base quantity (mil. units)	150.79	25.52	5.97				
Base price (\$/unit)	0.525	69.789	33.520				
Price elasticity	2.00	2.00	2.00				

**Storage demands/dis-storage supplies**

Activity name	Corn	Soybeans	Wheat	Rice	Barley	Oats	Sorghum
Symbol	STORCRN	STORSOY	STORWHE	STORRIC	STORBAR	STOROAT	STORSRG
Base quantity (mil. units)	1502.45	294.74	781.99	27.08	116.29	55.01	27.20
Base price (\$/unit)	1.963	4.988	2.793	6.541	2.453	1.373	2.208
Price elasticity	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20	-1.20
Symbol	DSTORCRN	DSTORSOY	DSTORWHE	DSTORRIC	DSTORBAR	DSTOROAT	DSTORSRG
Base quantity (mil. units)	930.41	157.23	559.91	9.34	81.96	49.04	64.22
Base price (\$/unit)	1.920	4.945	2.730	6.479	2.410	1.330	2.165
Price elasticity	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Activity name	Dry beans	Sunflowers					
Symbol	STORBEN	STORSNF					
Base quantity (mil. units)	10.33	15.70					
Base price (\$/unit)	24.302	13.154					
Price elasticity	-1.20	-1.20					
Symbol	DSTORBEN	DSTORSNF					
Base quantity (mil. units)	7.58	9.88					
Base price (\$/unit)	24.302	13.091					
Price elasticity	0.80	0.80					

Source: Calculated from *USDA Agricultural Projections to 2016*.