

## Alternative Allocation Formula for NASDA Agricultural Stewardship Program

The attached two tables represent a set of alternatives for establishing an allocation of funds to the various states under NASDA's proposed Agricultural Stewardship Program. All of the distribution formula are based on National Agricultural Statistics Service survey data for gross receipts for agricultural production in each state, and estimated land area in agricultural production within each state. Formula differ in the weighting factors for each of the two variables, and the inclusion or exclusion of a base allocation, common to all states. These tables are provided for discussion purposes.

Table 1. shows, for each state, the raw data used for gross receipts and agricultural land area, and the percentage value for each statistic, relative to the 50-state total. In addition, each state's weighted combination of the two variables (percentage variables) using three combinations of weighting constants appears in the last three columns. The column marked "50/50 Factor" indicates an equal weight on both variables. The columns marked "60/40 Factor" and "70/30 Factor" indicate weighted combinations with a heavier emphasis on gross receipts of 60% and 70%, respectively.

Table 2. shows the three weighted factors from table 1, and a representation of how each \$1 billion would be allocated to the states using two allocation methods. The states are sorted based on their allocation under the 60/40 factor. The columns marked "50/50 Alloc", "60/40 Alloc", and "70/30 Alloc" show allocations based solely on the respective weighted factors. The columns under the heading "Includes 0.2% Base Alloc" shows each states equal share of 10% of each \$1 billion, and three columns showing the distribution of funds (including the base allocation) using each of the three factors on the remaining 90 percent of the funds.

Table 1. Allocation Formula Using Gross Receipts from Agricultural Production and Total Land Area in Production

State	Total State Receipts (\$1,000,000)	Percent of Total US Receipts	Total Land in Production (1,000 acres)	Percent of Total US Acres	Weighted Percentage (Rcpts/Acres)		
					50/50 Factor	60/40 Factor	70/30 Factor
Alabama	3,438.3	1.822%	9,000	0.959%	1.390%	1.477%	1.563%
Alaska	47.5	0.025%	920	0.098%	0.062%	0.054%	0.047%
Arizona	2,178.0	1.154%	26,700	2.844%	1.999%	1.830%	1.661%
Arkansas	5,259.4	2.787%	14,600	1.555%	2.171%	2.294%	2.418%
California	24,800.7	13.143%	27,800	2.961%	8.052%	9.070%	10.088%
Colorado	4,353.6	2.307%	31,600	3.366%	2.837%	2.731%	2.625%
Connecticut	482.5	0.256%	360	0.038%	0.147%	0.169%	0.190%
Delaware	718.3	0.381%	580	0.062%	0.221%	0.253%	0.285%
Florida	7,065.6	3.744%	10,300	1.097%	2.421%	2.685%	2.950%
Georgia	5,241.0	2.777%	11,100	1.182%	1.980%	2.139%	2.299%
Hawaii	533.3	0.283%	1,440	0.153%	0.218%	0.231%	0.244%
Idaho	3,347.3	1.774%	11,900	1.268%	1.521%	1.571%	1.622%
Illinois	6,757.5	3.581%	27,700	2.951%	3.266%	3.329%	3.392%
Indiana	4,373.1	2.317%	15,500	1.651%	1.984%	2.051%	2.118%
Iowa	9,716.5	5.149%	32,800	3.494%	4.322%	4.487%	4.653%
Kansas	7,616.0	4.036%	47,500	5.060%	4.548%	4.446%	4.343%
Kentucky	3,456.1	1.832%	13,600	1.449%	1.640%	1.678%	1.717%
Louisiana	1,847.6	0.979%	8,100	0.863%	0.921%	0.933%	0.944%
Maine	515.2	0.273%	1,270	0.135%	0.204%	0.218%	0.232%
Maryland	1,481.0	0.785%	2,100	0.224%	0.504%	0.560%	0.616%
Massachusetts	396.1	0.210%	570	0.061%	0.135%	0.150%	0.165%
Michigan	3,470.1	1.839%	10,400	1.108%	1.473%	1.547%	1.620%
Minnesota	7,060.8	3.742%	28,600	3.047%	3.394%	3.464%	3.533%
Mississippi	3,173.8	1.682%	11,100	1.182%	1.432%	1.482%	1.532%
Missouri	4,255.9	2.255%	30,000	3.196%	2.726%	2.631%	2.537%
Montana	1,716.2	0.909%	56,700	6.040%	3.475%	2.962%	2.449%
Nebraska	8,555.0	4.534%	46,400	4.943%	4.738%	4.697%	4.656%
Nevada	334.3	0.177%	6,800	0.724%	0.451%	0.396%	0.341%
New Hampshire	153.1	0.081%	420	0.045%	0.063%	0.067%	0.070%
New Jersey	740.3	0.392%	830	0.088%	0.240%	0.271%	0.301%
New Mexico	1,953.4	1.035%	44,000	4.687%	2.861%	2.496%	2.131%
New York	3,097.4	1.641%	7,700	0.820%	1.231%	1.313%	1.395%
North Carolina	6,687.9	3.544%	9,200	0.980%	2.262%	2.519%	2.775%
North Dakota	2,758.9	1.462%	39,400	4.197%	2.830%	2.556%	2.283%
Ohio	4,428.8	2.347%	14,900	1.587%	1.967%	2.043%	2.119%
Oklahoma	3,990.5	2.115%	34,000	3.622%	2.868%	2.718%	2.567%
Oregon	3,052.5	1.618%	17,200	1.832%	1.725%	1.703%	1.682%
Pennsylvania	4,070.3	2.157%	7,700	0.820%	1.489%	1.622%	1.756%
Rhode Island	47.6	0.025%	60	0.006%	0.016%	0.018%	0.020%
South Carolina	1,406.1	0.745%	470	0.050%	0.398%	0.467%	0.537%
South Dakota	3,539.1	1.875%	44,000	4.687%	3.281%	3.000%	2.719%
Tennessee	1,974.4	1.046%	11,700	1.246%	1.146%	1.126%	1.106%
Texas	13,051.6	6.917%	130,000	13.848%	10.382%	9.689%	8.996%
Utah	966.6	0.512%	11,600	1.236%	0.874%	0.802%	0.729%
Vermont	540.7	0.287%	1,340	0.143%	0.215%	0.229%	0.243%
Virginia	2,283.0	1.210%	8,700	0.927%	1.068%	1.097%	1.125%
Washington	4,933.3	2.614%	15,700	1.672%	2.143%	2.238%	2.332%
West Virginia	386.6	0.205%	3,600	0.383%	0.294%	0.276%	0.258%
Wisconsin	5,596.1	2.966%	16,200	1.726%	2.346%	2.470%	2.594%
Wyoming	851.7	0.451%	34,600	3.686%	2.069%	1.745%	1.422%
TOTAL	188,701	100.000%	938,760	100.000%	100.000%	100.000%	100.000%

Table 2. Allocation to Each State Under Various Scenarios Based on \$1 Billion Total Funding

State	(\$ in millions)									
	50/50 Factor	60/40 Factor	70/30 Factor	50/50 Alloc	60/40 Alloc	70/30 Alloc	Including 0.2% Base Alloc			
							Base Alloc	50/50 Alloc	60/40 Alloc	70/30 Alloc
Texas	10.382%	9.689%	8.996%	103.8	96.9	90.0	2.0	95.4	89.2	83.0
California	8.052%	9.070%	10.088%	80.5	90.7	100.9	2.0	74.5	83.6	92.8
Nebraska	4.738%	4.697%	4.656%	47.4	47.0	46.6	2.0	44.6	44.3	43.9
Iowa	4.322%	4.487%	4.653%	43.2	44.9	46.5	2.0	40.9	42.4	43.9
Kansas	4.548%	4.446%	4.343%	45.5	44.5	43.4	2.0	42.9	42.0	41.1
Minnesota	3.394%	3.464%	3.533%	33.9	34.6	35.3	2.0	32.5	33.2	33.8
Illinois	3.266%	3.329%	3.392%	32.7	33.3	33.9	2.0	31.4	32.0	32.5
South Dakota	3.281%	3.000%	2.719%	32.8	30.0	27.2	2.0	31.5	29.0	26.5
Montana	3.475%	2.962%	2.449%	34.7	29.6	24.5	2.0	33.3	28.7	24.0
Colorado	2.837%	2.731%	2.625%	28.4	27.3	26.2	2.0	27.5	26.6	25.6
Oklahoma	2.868%	2.718%	2.567%	28.7	27.2	25.7	2.0	27.8	26.5	25.1
Florida	2.421%	2.685%	2.950%	24.2	26.9	29.5	2.0	23.8	26.2	28.6
Missouri	2.726%	2.631%	2.537%	27.3	26.3	25.4	2.0	26.5	25.7	24.8
North Dakota	2.830%	2.556%	2.283%	28.3	25.6	22.8	2.0	27.5	25.0	22.5
North Carolina	2.262%	2.519%	2.775%	22.6	25.2	27.7	2.0	22.4	24.7	27.0
New Mexico	2.861%	2.496%	2.131%	28.6	25.0	21.3	2.0	27.8	24.5	21.2
Wisconsin	2.346%	2.470%	2.594%	23.5	24.7	25.9	2.0	23.1	24.2	25.3
Arkansas	2.171%	2.294%	2.418%	21.7	22.9	24.2	2.0	21.5	22.6	23.8
Washington	2.143%	2.238%	2.332%	21.4	22.4	23.3	2.0	21.3	22.1	23.0
Georgia	1.980%	2.139%	2.299%	19.8	21.4	23.0	2.0	19.8	21.3	22.7
Indiana	1.984%	2.051%	2.118%	19.8	20.5	21.2	2.0	19.9	20.5	21.1
Ohio	1.967%	2.043%	2.119%	19.7	20.4	21.2	2.0	19.7	20.4	21.1
Arizona	1.999%	1.830%	1.661%	20.0	18.3	16.6	2.0	20.0	18.5	17.0
Wyoming	2.069%	1.745%	1.422%	20.7	17.5	14.2	2.0	20.6	17.7	14.8
Oregon	1.725%	1.703%	1.682%	17.2	17.0	16.8	2.0	17.5	17.3	17.1
Kentucky	1.640%	1.678%	1.717%	16.4	16.8	17.2	2.0	16.8	17.1	17.5
Pennsylvania	1.489%	1.622%	1.756%	14.9	16.2	17.6	2.0	15.4	16.6	17.8
Idaho	1.521%	1.571%	1.622%	15.2	15.7	16.2	2.0	15.7	16.1	16.6
Michigan	1.473%	1.547%	1.620%	14.7	15.5	16.2	2.0	15.3	15.9	16.6
Mississippi	1.432%	1.482%	1.532%	14.3	14.8	15.3	2.0	14.9	15.3	15.8
Alabama	1.390%	1.477%	1.563%	13.9	14.8	15.6	2.0	14.5	15.3	16.1
New York	1.231%	1.313%	1.395%	12.3	13.1	14.0	2.0	13.1	13.8	14.6
Tennessee	1.146%	1.126%	1.106%	11.5	11.3	11.1	2.0	12.3	12.1	12.0
Virginia	1.068%	1.097%	1.125%	10.7	11.0	11.2	2.0	11.6	11.9	12.1
Louisiana	0.921%	0.933%	0.944%	9.2	9.3	9.4	2.0	10.3	10.4	10.5
Utah	0.874%	0.802%	0.729%	8.7	8.0	7.3	2.0	9.9	9.2	8.6
Maryland	0.504%	0.560%	0.616%	5.0	5.6	6.2	2.0	6.5	7.0	7.5
South Carolina	0.398%	0.467%	0.537%	4.0	4.7	5.4	2.0	5.6	6.2	6.8
Nevada	0.451%	0.396%	0.341%	4.5	4.0	3.4	2.0	6.1	5.6	5.1
West Virginia	0.294%	0.276%	0.258%	2.9	2.8	2.6	2.0	4.6	4.5	4.3
New Jersey	0.240%	0.271%	0.301%	2.4	2.7	3.0	2.0	4.2	4.4	4.7
Delaware	0.221%	0.253%	0.285%	2.2	2.5	2.8	2.0	4.0	4.3	4.6
Hawaii	0.218%	0.231%	0.244%	2.2	2.3	2.4	2.0	4.0	4.1	4.2
Vermont	0.215%	0.229%	0.243%	2.1	2.3	2.4	2.0	3.9	4.1	4.2
Maine	0.204%	0.218%	0.232%	2.0	2.2	2.3	2.0	3.8	4.0	4.1
Connecticut	0.147%	0.169%	0.190%	1.5	1.7	1.9	2.0	3.3	3.5	3.7
Massachusetts	0.135%	0.150%	0.165%	1.4	1.5	1.7	2.0	3.2	3.4	3.5
New Hampshire	0.063%	0.067%	0.070%	0.6	0.7	0.7	2.0	2.6	2.6	2.6
Alaska	0.062%	0.054%	0.047%	0.6	0.5	0.5	2.0	2.6	2.5	2.4
Rhode Island	0.016%	0.018%	0.020%	0.2	0.2	0.2	2.0	2.1	2.2	2.2
TOTAL	100.000%	100.000%	100.000%	1000.0	1000.0	1000.0	100.0	1000.0	1000.0	1000.0