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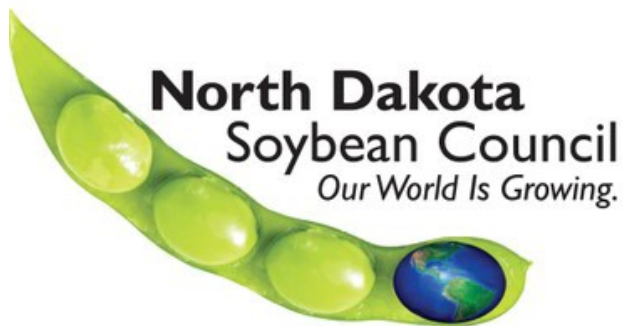
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SOYBEAN TRADE REPORT: APPENDIX

Section VI



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Acknowledgments

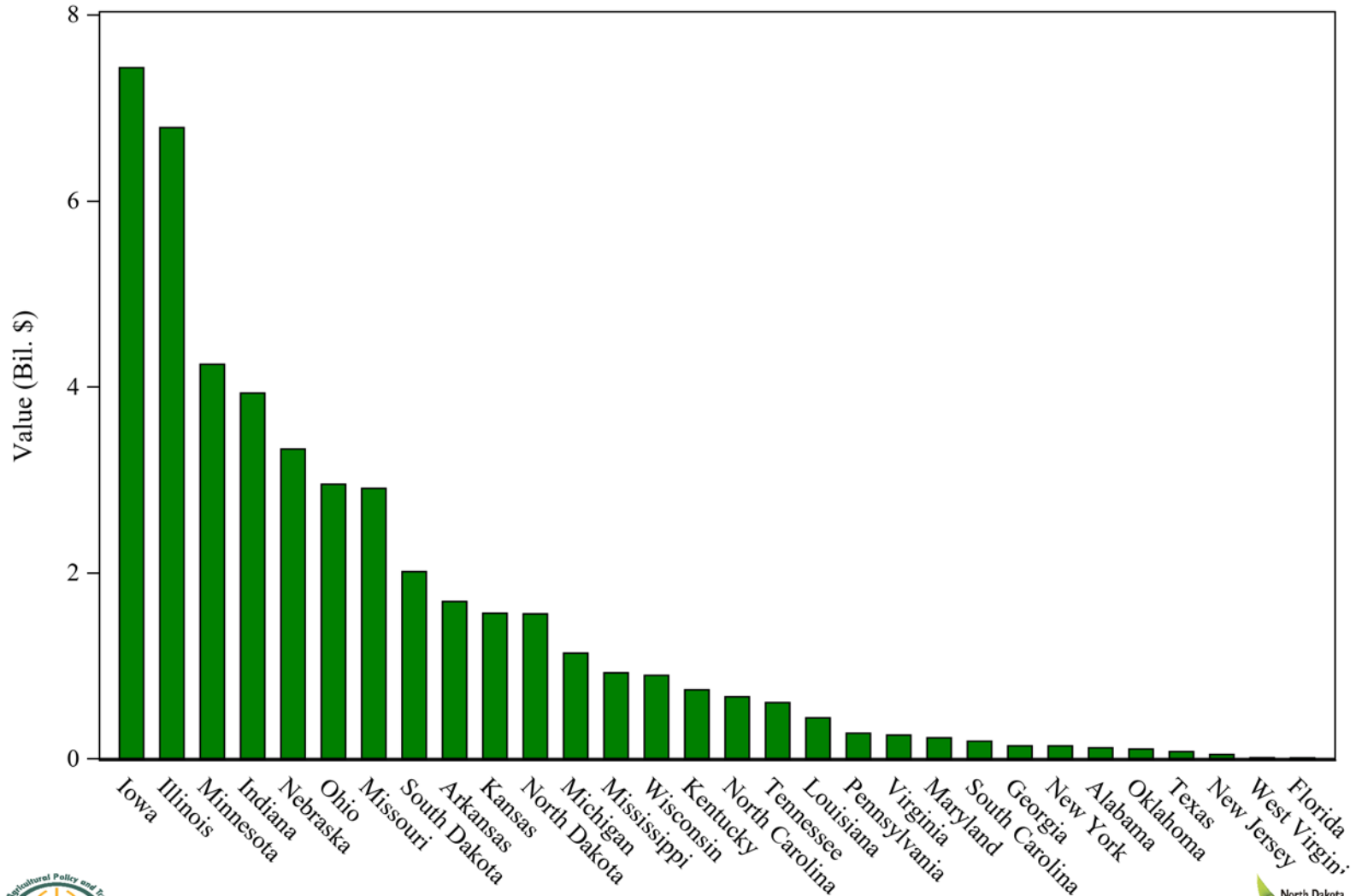
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Section VI: U.S. State Level Soybean Export

Figure 1: U.S. State Soybean Grain Export Value, 2004-2008



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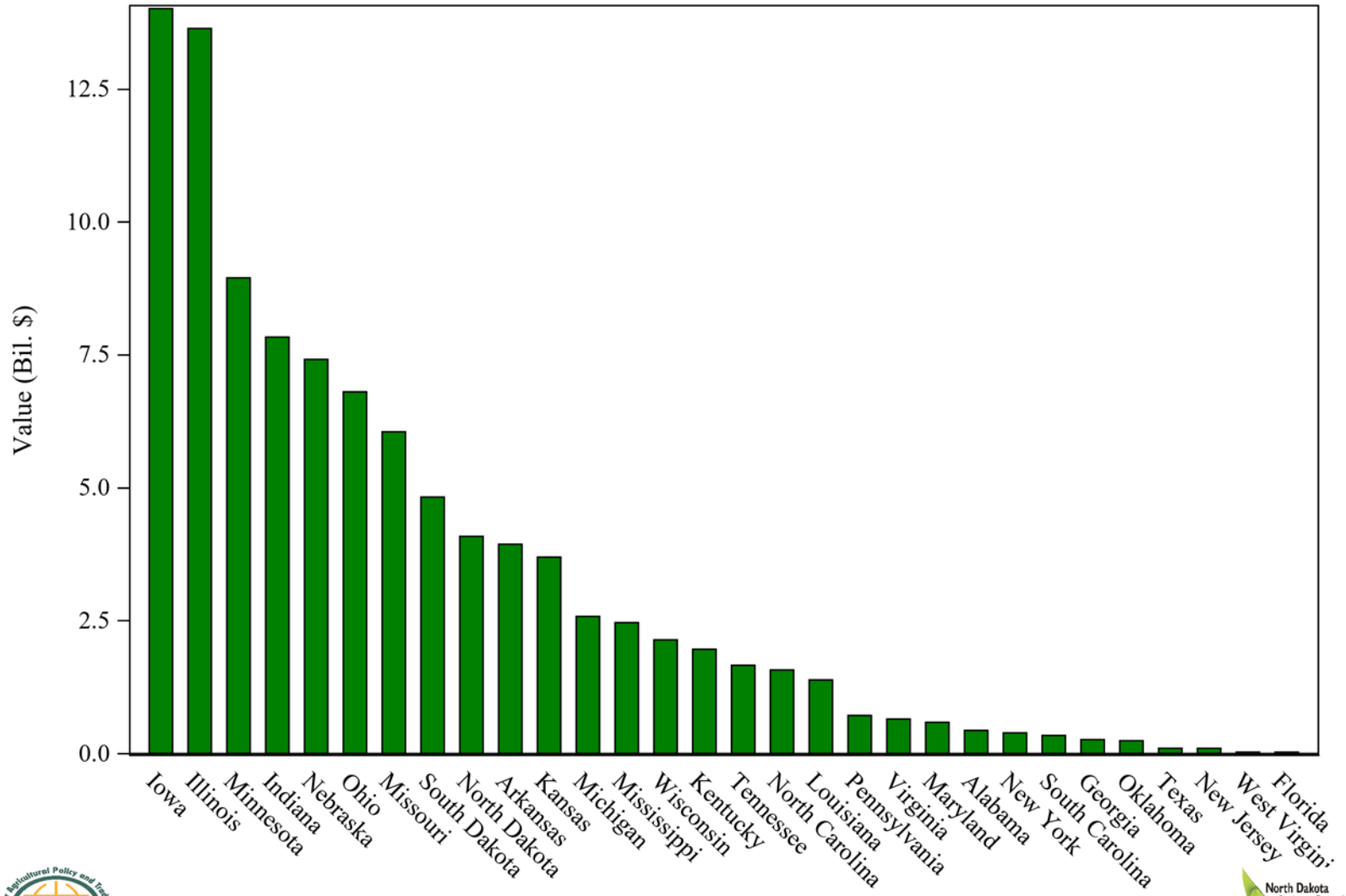


Table 1: U.S. State Soybean Grain Export Value Descriptive Statistics, 2004-2008

State	N	Sum	Share	Mean	Risk	Coefficient of Variation
Iowa	5	7,430,624,831	16.4	1,486,124,966	595,927,908	40.1
Illinois	5	6,786,276,179	15.0	1,357,255,236	557,073,590	41.0
Minnesota	5	4,240,817,644	9.35	848,163,529	365,639,865	43.1
Indiana	5	3,930,966,143	8.67	786,193,229	314,312,617	40.0
Nebraska	5	3,329,428,148	7.34	665,885,630	300,048,006	45.1
Ohio	5	2,951,230,393	6.51	590,246,079	203,638,543	34.5
Missouri	5	2,906,455,485	6.41	581,291,097	248,117,922	42.7
South Dakota	5	2,010,495,272	4.43	402,099,054	191,490,463	47.6
Arkansas	5	1,690,132,077	3.73	338,026,415	168,686,062	49.9
Kansas	5	1,563,419,190	3.45	312,683,838	164,998,245	52.8
North Dakota	5	1,557,043,520	3.43	311,408,704	151,044,620	48.5
Michigan	5	1,134,200,697	2.50	226,840,139	85,499,296	37.7
Mississippi	5	922,841,548	2.03	184,568,310	116,252,839	63.0
Wisconsin	5	895,362,800	1.97	179,072,560	68,928,544	38.5
Kentucky	5	739,693,746	1.63	147,938,749	58,447,362	39.5
North Carolina	5	665,225,557	1.47	133,045,111	78,242,995	58.8
Tennessee	5	602,579,236	1.33	120,515,847	71,662,916	59.5
Louisiana	5	438,374,876	0.97	87,674,975	39,937,954	45.6
Pennsylvania	5	273,205,589	0.60	54,641,118	25,651,801	46.9

State	N	Sum	Share	Mean	Risk	Coefficient of Variation
Virginia	5	253,051,974	0.56	50,610,395	23,088,125	45.6
Maryland	5	224,073,613	0.49	44,814,723	15,363,394	34.3
South Carolina	5	186,764,338	0.41	37,352,868	24,824,957	66.5
Georgia	5	137,266,669	0.30	27,453,334	23,876,686	87.0
New York	5	136,918,115	0.30	27,383,623	17,983,161	65.7
Alabama	5	115,815,605	0.26	23,163,121	24,560,933	106
Oklahoma	5	102,651,073	0.23	20,530,215	13,340,347	65.0
Texas	5	75,346,498	0.17	15,069,300	6,811,710	45.2
New Jersey	5	43,586,836	0.10	8,717,367	3,345,328	38.4
West Virginia	5	10,027,647	0.02	2,005,529	1,037,664	51.7
Florida	5	7,889,085	0.02	1,577,817	1,914,592	121

Figure 2: U.S. State Soybean Grain Export Value, 2009-2013



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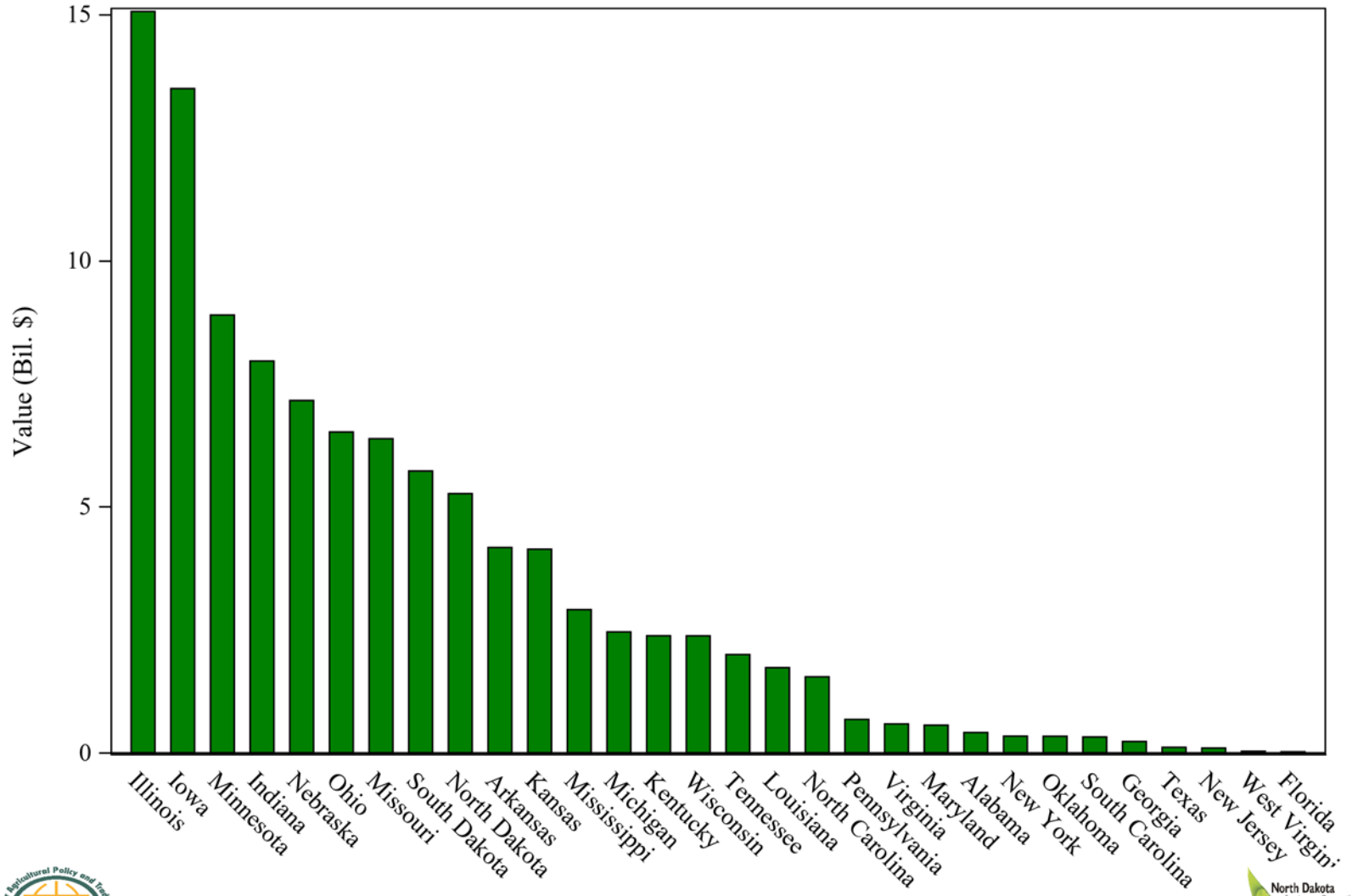


Table 2: U.S. State Soybean Grain Export Value Descriptive Statistics, 2009-2013

State	N	Sum	Share	Mean	Risk	Coefficient of Variation
Iowa	5	14,010,930,732	14.2	2,802,186,146	379,614,577	13.5
Illinois	5	13,635,991,078	13.8	2,727,198,216	425,512,287	15.6
Minnesota	5	8,946,468,473	9.05	1,789,293,695	415,107,757	23.2
Indiana	5	7,832,230,539	7.92	1,566,446,108	233,174,216	14.9
Nebraska	5	7,412,458,360	7.50	1,482,491,672	155,534,229	10.5
Ohio	5	6,802,040,597	6.88	1,360,408,119	225,034,305	16.5
Missouri	5	6,050,685,450	6.12	1,210,137,090	98,585,512	8.1
South Dakota	5	4,823,533,827	4.88	964,706,765	172,027,334	17.8
North Dakota	5	4,084,412,191	4.13	816,882,438	292,735,786	35.8
Arkansas	5	3,936,663,609	3.98	787,332,722	220,946,035	28.1
Kansas	5	3,693,944,315	3.74	738,788,863	103,037,138	13.9
Michigan	5	2,579,203,215	2.61	515,840,643	106,866,718	20.7
Mississippi	5	2,462,269,377	2.49	492,453,875	158,818,218	32.3
Wisconsin	5	2,138,377,484	2.16	427,675,497	90,964,780	21.3
Kentucky	5	1,961,216,767	1.98	392,243,353	113,570,954	29.0
Tennessee	5	1,659,388,437	1.68	331,877,687	100,412,603	30.3
North Carolina	5	1,571,492,441	1.59	314,298,488	107,071,913	34.1
Louisiana	5	1,384,768,359	1.40	276,953,672	112,364,231	40.6
Pennsylvania	5	715,988,539	0.72	143,197,708	40,918,751	28.6

State	N	Sum	Share	Mean	Risk	Coefficient of Variation
Virginia	5	648,618,904	0.66	129,723,781	42,934,114	33.1
Maryland	5	587,433,101	0.59	117,486,620	35,755,982	30.4
Alabama	5	435,009,482	0.44	87,001,896	35,419,596	40.7
New York	5	388,714,613	0.39	77,742,923	22,157,720	28.5
South Carolina	5	340,460,215	0.34	68,092,043	20,627,605	30.3
Georgia	5	262,436,193	0.27	52,487,239	25,036,581	47.7
Oklahoma	5	241,172,844	0.24	48,234,569	21,722,514	45.0
Texas	5	99,253,820	0.10	19,850,764	7,716,130	38.9
New Jersey	5	98,625,871	0.10	19,725,174	5,945,135	30.1
West Virginia	5	26,146,067	0.03	5,229,213	1,962,960	37.5
Florida	5	25,595,013	0.03	5,119,003	2,079,277	40.6

Figure 3: U.S. State Soybean Grain Export Value, 2014-2018



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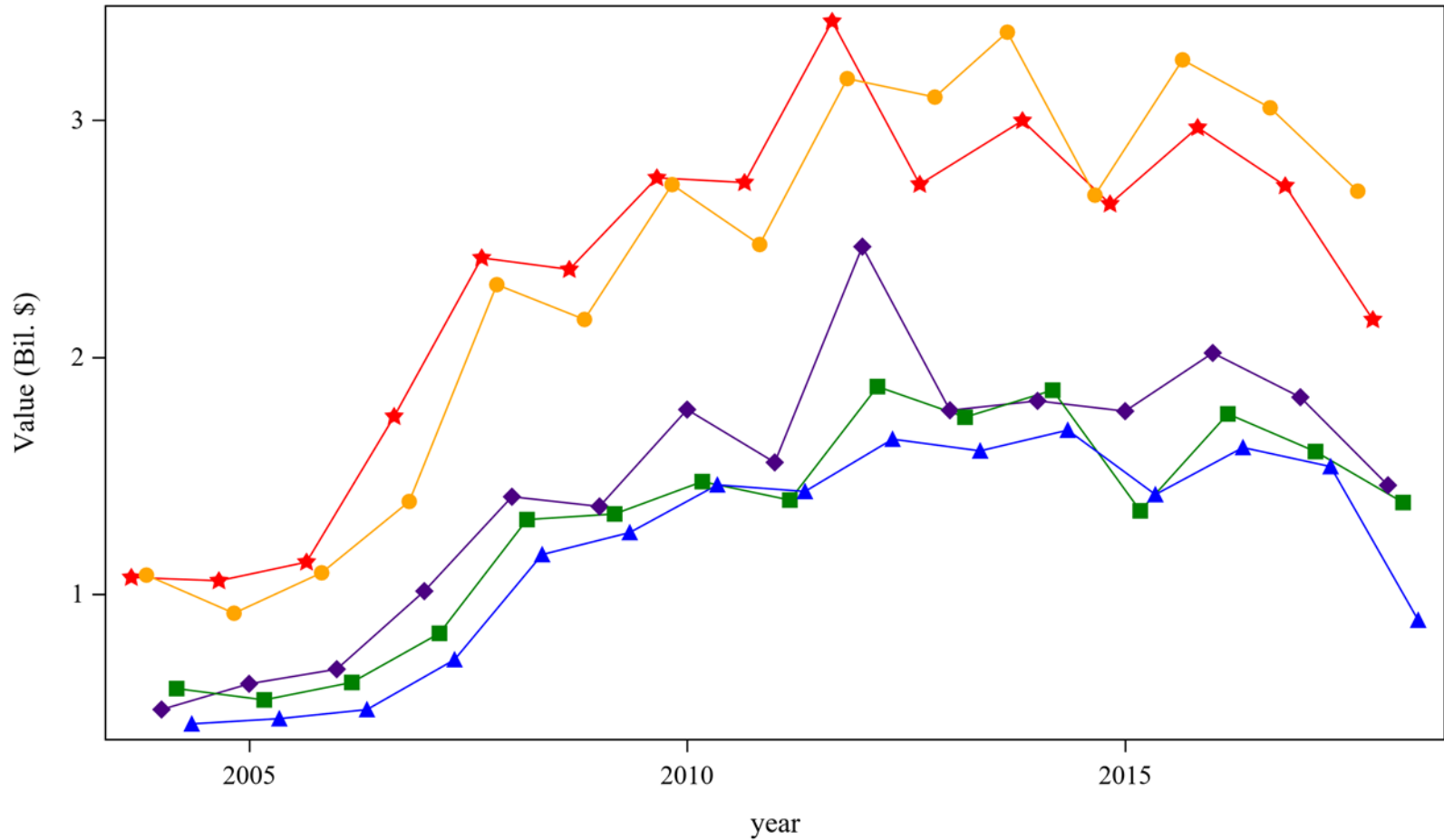
Table 3: U.S. State Soybean Grain Export Value Descriptive Statistics, 2014-2018

State	N	Sum	Share	Mean	Risk	Coefficient of Variation
Illinois	5	15,063,141,842	14.5	3,012,628,368	314,071,821	10.4
Iowa	5	13,495,821,710	13.0	2,699,164,342	338,479,177	12.5
Minnesota	5	8,895,593,177	8.56	1,779,118,635	202,045,691	11.4
Indiana	5	7,960,867,088	7.66	1,592,173,418	224,022,213	14.1
Nebraska	5	7,159,011,632	6.89	1,431,802,326	319,175,278	22.3
Ohio	5	6,518,695,921	6.27	1,303,739,184	172,423,814	13.2
Missouri	5	6,382,620,875	6.14	1,276,524,175	301,018,313	23.6
South Dakota	5	5,725,935,562	5.51	1,145,187,112	158,065,942	13.8
North Dakota	5	5,267,033,316	5.07	1,053,406,663	177,856,868	16.9
Arkansas	5	4,172,067,626	4.01	834,413,525	132,800,379	15.9
Kansas	5	4,138,064,365	3.98	827,612,873	125,672,616	15.2
Mississippi	5	2,909,395,769	2.80	581,879,154	103,746,738	17.8
Michigan	5	2,457,166,201	2.36	491,433,240	49,439,689	10.1
Kentucky	5	2,379,222,267	2.29	475,844,453	53,985,738	11.3
Wisconsin	5	2,377,858,057	2.29	475,571,611	58,902,391	12.4
Tennessee	5	1,997,730,877	1.92	399,546,175	59,861,052	15.0
Louisiana	5	1,731,877,544	1.67	346,375,509	101,652,266	29.3
North Carolina	5	1,545,447,694	1.49	309,089,539	82,688,077	26.8
Pennsylvania	5	680,239,082	0.65	136,047,816	23,142,507	17.0

State	N	Sum	Share	Mean	Risk	Coefficient of Variation
Virginia	5	588,266,998	0.57	117,653,400	22,358,446	19.0
Maryland	5	563,166,253	0.54	112,633,251	17,789,294	15.8
Alabama	5	412,983,253	0.40	82,596,651	23,284,966	28.2
New York	5	340,075,823	0.33	68,015,165	10,664,031	15.7
Oklahoma	5	337,113,362	0.32	67,422,672	12,908,718	19.1
South Carolina	5	323,216,067	0.31	64,643,213	22,453,545	34.7
Georgia	5	230,846,411	0.22	46,169,282	23,152,663	50.1
Texas	5	113,190,816	0.11	22,638,163	8,344,522	36.9
New Jersey	5	98,398,575	0.09	19,679,715	4,816,517	24.5
West Virginia	5	33,393,823	0.03	6,678,765	950,209	14.2
Florida	5	22,267,532	0.02	4,453,506	2,749,825	61.7

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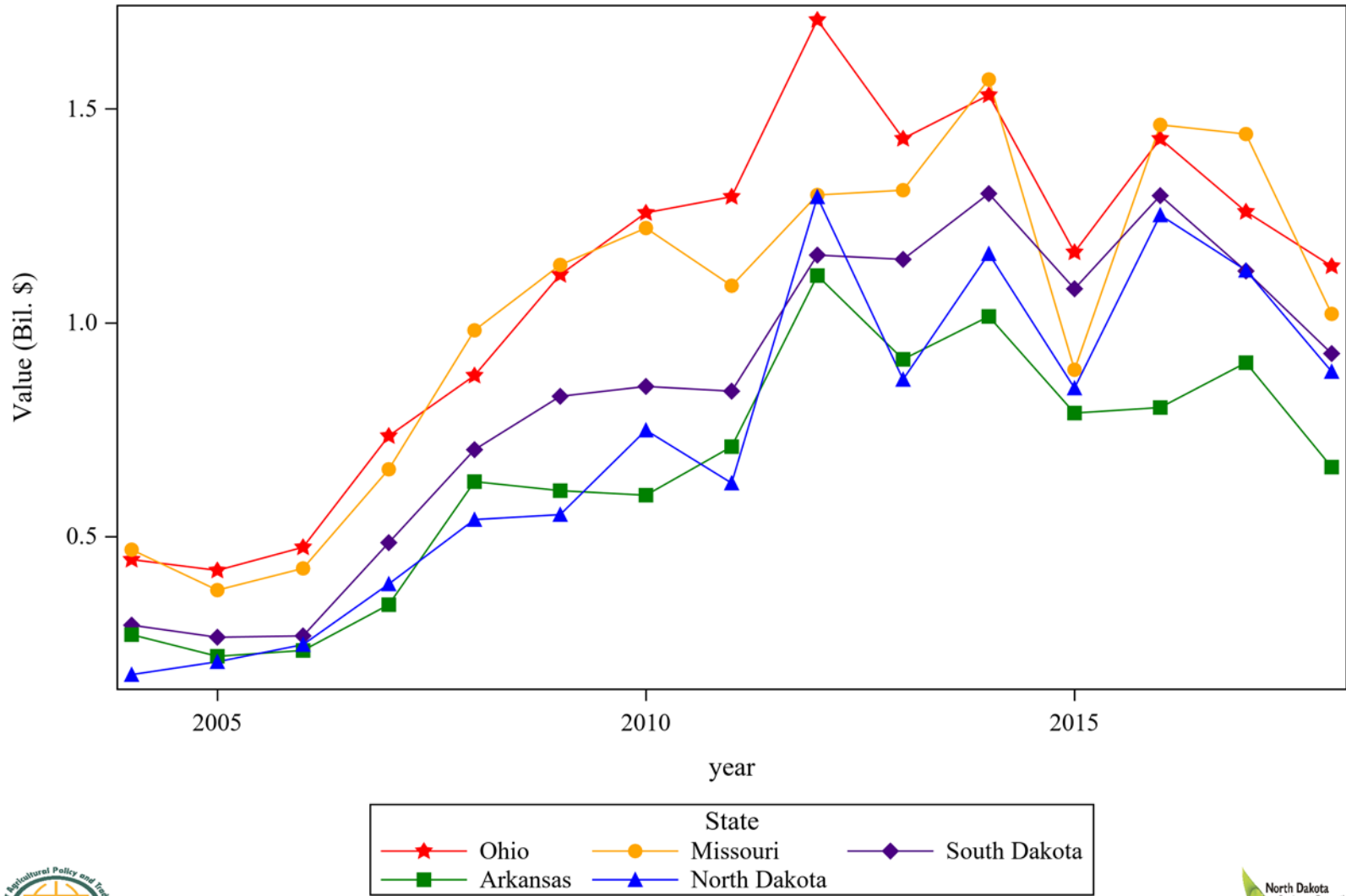
Figure 4: U.S. Soybean Grain Export Value of Top 5 States, Annual Trends



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Figure 5: U.S. Soybean Grain Export Value of Top 6 to 10 States, Annual Trends



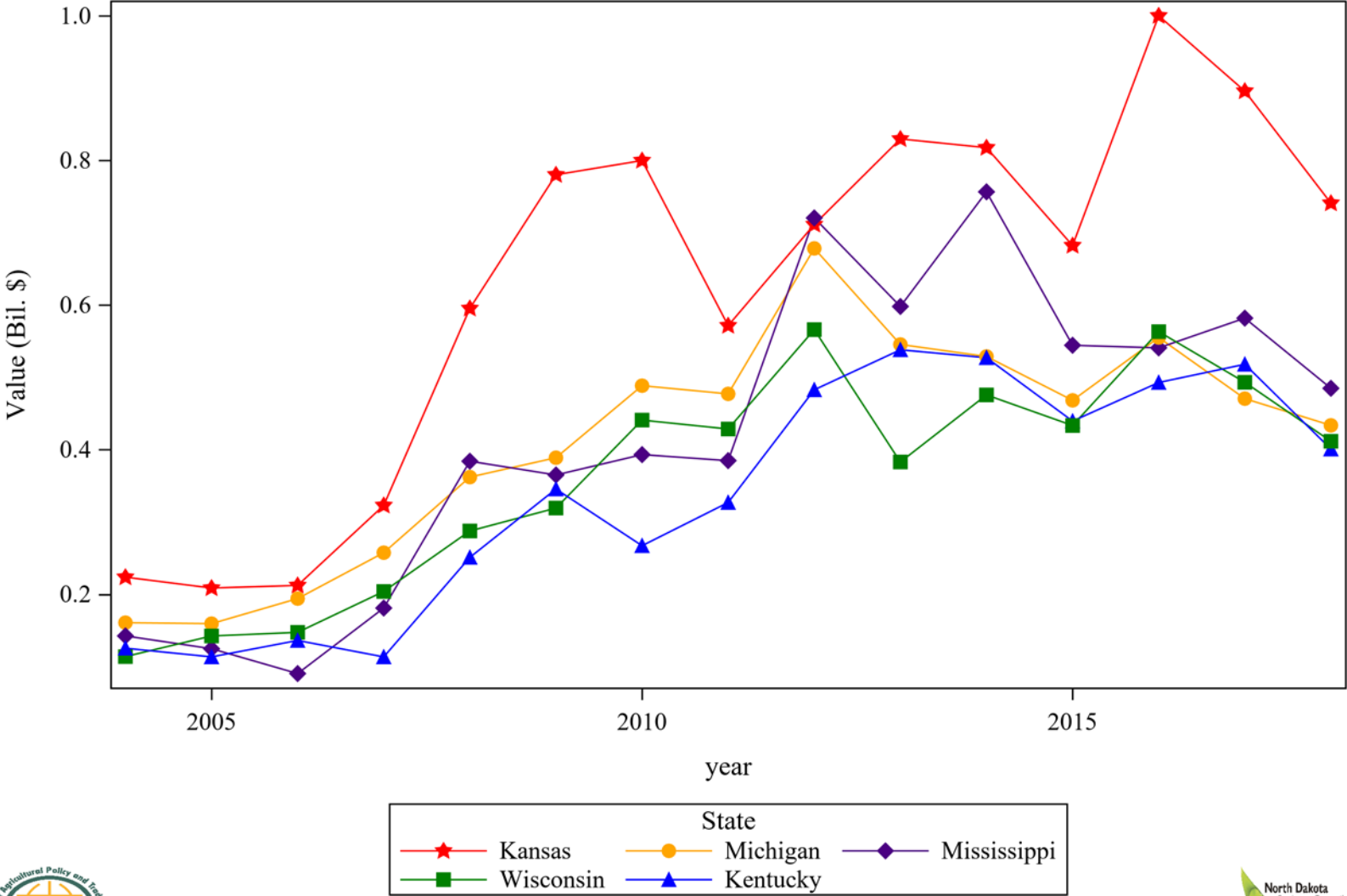
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Figure 6: U.S. Soybean Grain Export Value of Top 11 to 15 States, Annual Trends



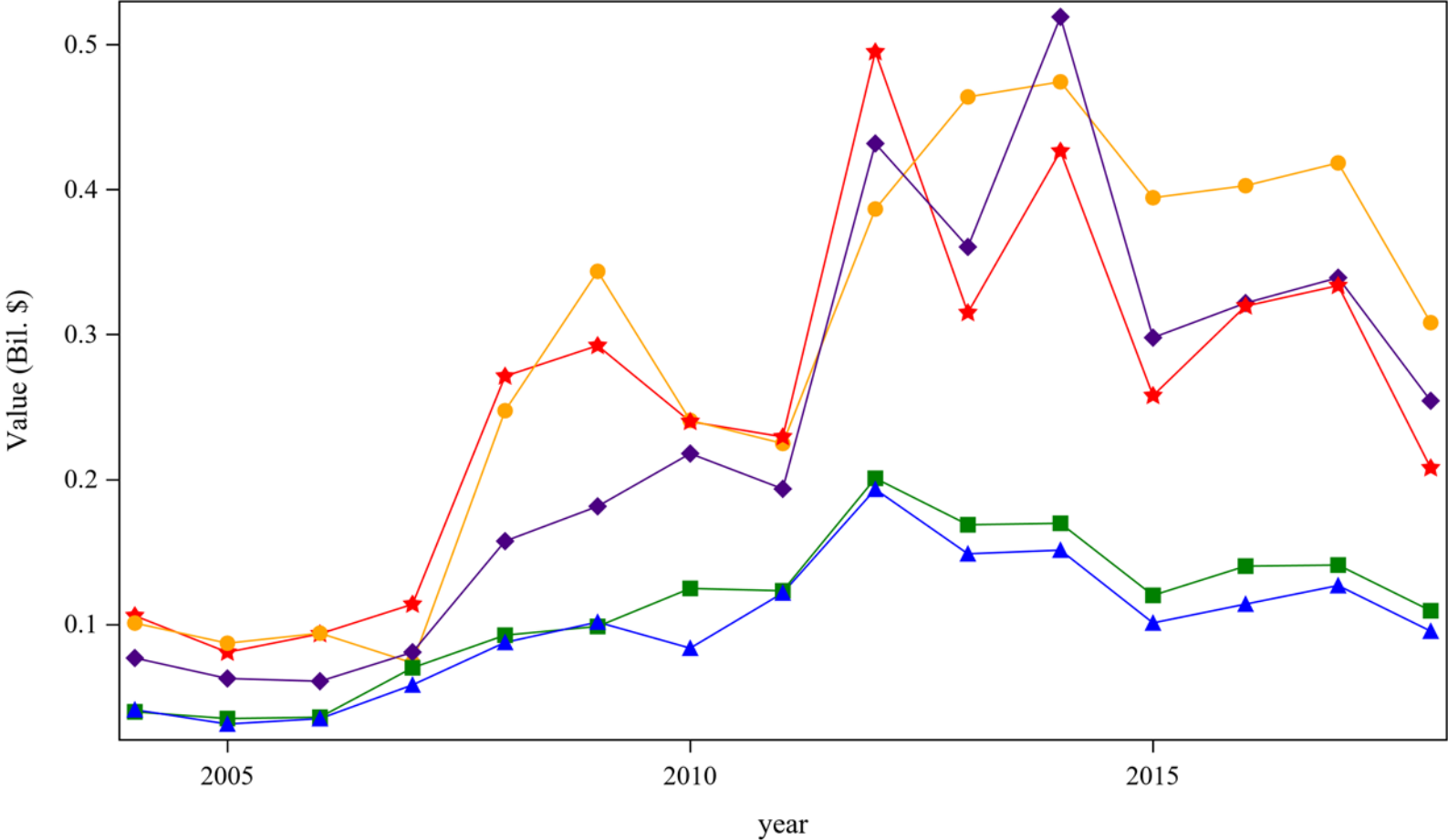
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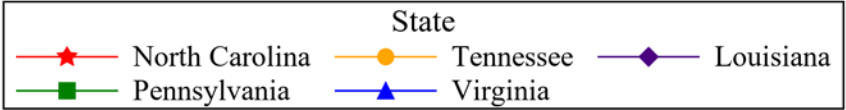
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Figure 7: U.S. Soybean Grain Export Value of Top 16 to 20 States, Annual Trends



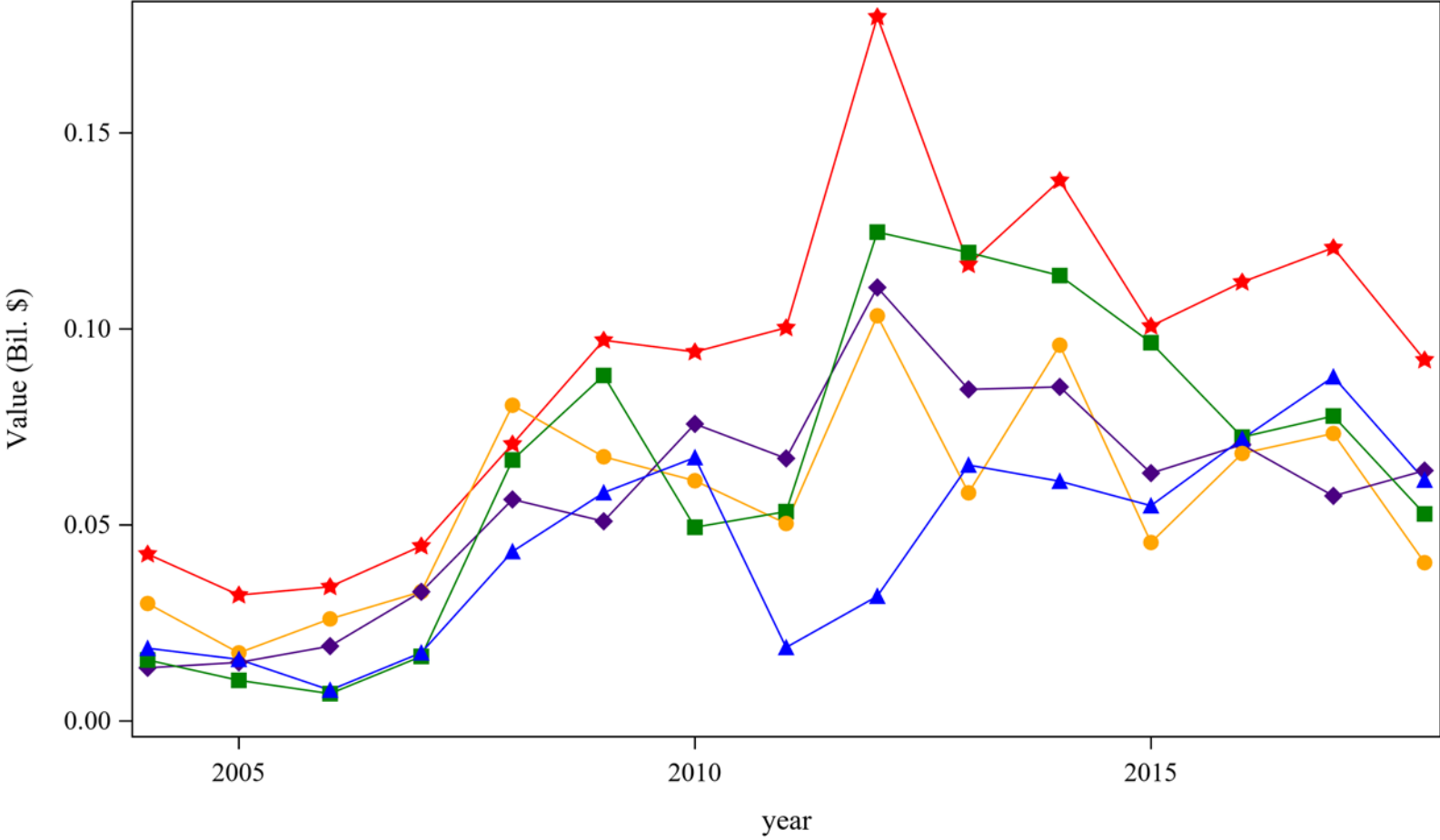
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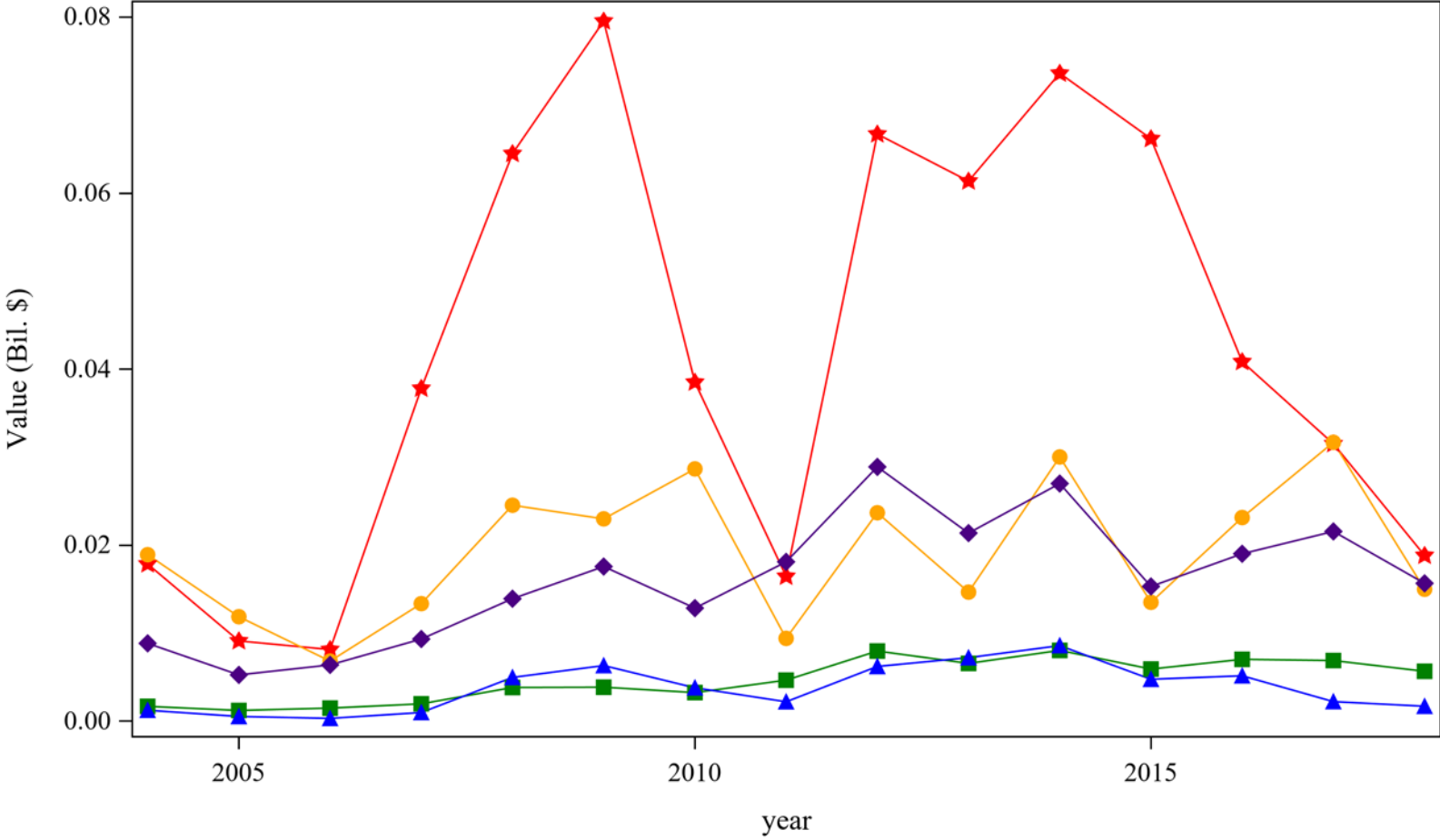
Figure 8: U.S. Soybean Grain Export Value of Top 21 to 25 States, Annual Trends



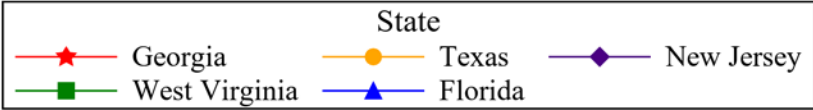
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Figure 9: U.S. Soybean Grain Export Value of Top 26 to 30 States, Annual Trends



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Table 4: NDSU Estimate of U.S. State Soybean Grain Export Value, Annual Trends

Reporter	2010	2011	2012	2013	2014	2015	2016	2017	2018
Alabama	49,392,902	53,381,418	124,668,707	119,458,101	113,582,129	96,466,269	72,386,119	77,762,651	52,786,085
Arkansas	596,148,177	709,761,752	1,109,898,433	914,056,087	1,014,409,247	788,347,767	801,265,558	906,182,168	661,862,886
Florida	3,765,225	2,171,448	6,185,430	7,185,457	8,554,909	4,729,801	5,127,140	2,189,143	1,666,539
Georgia	38,481,192	16,421,572	66,680,298	61,334,317	73,586,720	66,152,300	40,815,062	31,491,863	18,800,466
Illinois	2,728,267,437	2,475,450,182	3,175,558,000	3,097,558,770	3,371,591,259	2,683,744,235	3,254,794,085	3,052,350,584	2,700,661,679
Indiana	1,474,741,783	1,396,830,689	1,875,803,109	1,746,689,864	1,860,562,277	1,351,448,409	1,760,623,814	1,601,719,182	1,386,513,407
Iowa	2,757,085,048	2,736,858,741	3,417,212,339	2,729,554,351	2,998,307,820	2,646,814,660	2,969,181,259	2,723,238,639	2,158,279,331
Kansas	800,110,250	571,713,986	711,663,210	830,007,923	817,903,101	682,485,202	1,000,375,934	896,143,182	741,156,947
Kentucky	267,268,449	327,055,092	482,939,366	538,290,444	527,318,931	439,661,201	493,030,458	518,241,349	400,970,328
Louisiana	217,832,388	193,456,234	431,714,713	360,356,070	519,043,748	297,803,111	321,665,569	339,166,519	254,198,597
Maryland	94,115,735	100,271,342	179,567,233	116,393,117	137,820,435	100,683,175	111,921,500	120,682,953	92,058,190
Michigan	488,642,826	477,331,416	678,573,424	545,655,117	529,045,017	468,368,347	555,271,743	470,720,365	433,760,729
Minnesota	1,778,711,499	1,555,721,518	2,466,440,332	1,775,678,238	1,815,490,713	1,772,133,000	2,017,685,179	1,831,024,795	1,459,259,490
Mississippi	393,285,906	384,938,425	720,713,084	598,207,869	756,819,477	544,529,091	540,935,397	582,072,569	485,039,235
Missouri	1,221,212,188	1,086,209,507	1,298,515,539	1,309,796,844	1,568,853,765	889,670,988	1,462,660,953	1,441,065,787	1,020,369,381
Nebraska	1,461,070,892	1,433,155,369	1,653,922,321	1,604,512,966	1,691,944,169	1,420,129,242	1,618,625,340	1,538,223,634	890,089,246
New Jersey	12,815,654	18,069,350	28,863,642	21,338,540	26,969,714	15,277,966	18,989,780	21,528,741	15,632,374
New York	75,735,585	66,946,111	110,560,035	84,559,572	85,192,034	63,189,736	70,471,088	57,379,144	63,843,819
North Carolina	239,902,855	229,349,092	494,913,724	315,029,866	426,440,479	257,802,599	319,572,057	333,697,558	207,935,000
North Dakota	748,253,829	624,472,118	1,294,063,389	866,901,586	1,161,115,671	846,756,197	1,251,508,675	1,122,286,931	885,365,842
Ohio	1,256,900,466	1,294,533,668	1,708,147,360	1,430,415,391	1,532,221,716	1,164,702,811	1,430,163,251	1,259,449,514	1,132,158,630
Oklahoma	67,156,429	18,733,304	31,810,784	65,256,268	61,127,727	54,884,149	71,910,167	87,761,107	61,430,211
Pennsylvania	124,792,643	123,149,223	200,761,395	168,717,642	169,718,888	120,005,292	140,179,420	140,937,595	109,397,886

Reporter	2010	2011	2012	2013	2014	2015	2016	2017	2018
South Carolina	61,259,065	50,338,102	103,322,742	58,173,785	95,831,901	45,502,340	68,211,443	73,310,579	40,359,805
South Dakota	850,666,949	839,515,795	1,157,917,084	1,147,883,455	1,301,743,034	1,079,088,366	1,297,029,929	1,120,602,335	927,471,897
Tennessee	240,687,153	224,777,720	386,535,016	463,868,931	474,287,556	394,342,345	402,629,473	418,343,046	308,128,457
Texas	28,633,567	9,376,705	23,651,907	14,634,292	29,991,120	13,474,783	23,109,452	31,655,542	14,959,919
Virginia	83,579,059	121,641,274	193,175,746	148,669,751	151,204,397	100,986,835	113,958,886	126,798,837	95,318,044
West Virginia	3,214,579	4,629,405	7,937,969	6,533,449	8,011,165	5,891,864	6,995,585	6,857,895	5,637,313
Wisconsin	441,013,478	428,764,012	566,204,774	383,065,956	475,836,623	433,542,933	563,429,704	493,329,387	411,719,410

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Table 5: FAS Estimate of U.S. State Soybean Grain Export Value, Annual Trends

Reporter	2010	2011	2012	2013	2014	2015	2016	2017	2018
Alabama	428,913,454	210,782,592	59,364,625	29,503,499	221,409,827	264,969,749	287,981,379	209,525,965	154,048,982
Alaska	.	.	.	.	.	.	.	.	60,000
Arizona	.	5,944	.	.	304,842	221,509	.	.	.
Arkansas	38,577,159	58,469,109	36,998,625	45,311,903	26,953,714	8,637,979	7,101,822	22,123,753	15,149,539
California	17,730,485	6,354,428	1,249,508	2,772,092	9,757,607	16,410,061	36,936,831	22,134,534	4,262,074
Colorado	.	.	10,777	.	.	.	553,055	4,836,963	.
Connecticut	244,936,851	132,411,400	14,435,138	2,508	.	.	.	7,323	5,400
District of Columbia	58,193,233	.	.	.	369,651	.	.	.	.
Florida	287,302	17,291	101,050	260,338	143,577	388,841	317,075	359,325	620,082
Georgia	39,443,574	16,296,170	15,122,056	22,077,697	49,213,718	15,762,389	15,198,326	16,054,456	4,089,106
Idaho	226,711	541,449	158,434	92,755	170,847	29,683	.	261,338	717,598
Illinois	814,243,258	1,625,854,587	1,362,897,365	2,214,293,471	1,817,716,871	1,545,176,493	2,332,596,018	2,066,582,523	1,085,258,241
Indiana	14,686,144	28,699,888	6,213,448	7,537,154	14,734,668	17,513,467	13,326,299	49,528,290	19,149,433
Iowa	540,983,969	320,972,852	407,828,629	233,301,810	514,585,104	384,733,628	254,397,650	181,208,717	446,017,735
Kansas	129,478,630	109,464,637	610,325,254	850,842,098	395,292,804	167,803,856	241,910,523	403,491,950	489,182,199
Kentucky	2,080,386	5,007,883	1,972,876	1,177,347	6,195,332	1,019,129	2,623,310	957,863	8,283,346
Louisiana	8,764,338,491	8,291,470,163	12,843,402,733	9,511,056,196	10,670,343,934	8,989,056,848	10,929,406,459	10,612,210,335	8,586,069,559
Maine	110,354	165,257	554,568	665,455	866,142	262,116	462,777	209,331	176,307
Maryland	4,843,312	2,869,428	469,815	5,811,169	37,242,724	16,142,674	13,152,113	21,694,528	11,704,377
Massachusetts	.	.	70,029	.	33,603	13,264	39,032	20,739	.
Michigan	78,735,580	113,914,680	141,246,383	124,641,629	155,154,577	109,425,060	112,277,996	146,249,414	178,533,566
Minnesota	262,182,677	209,823,377	115,791,483	141,262,415	227,452,759	174,401,674	188,308,175	162,289,202	160,168,898
Mississippi	69,377,998	76,123,598	9,324,240	27,928,050	43,824,384	.	7,997,369	109,695,163	24,833,770

Reporter	2010	2011	2012	2013	2014	2015	2016	2017	2018
Missouri	175,253,679	120,381,361	155,468,801	138,178,418	161,337,031	164,373,988	215,189,400	190,678,016	150,160,873
Montana	174,848	.	.	.	.	.	7,046	.	168,027
Nebraska	359,487,907	560,407,597	639,226,332	422,040,296	518,221,910	314,912,665	337,945,415	335,468,101	505,992,006
Nevada	8,223	.	.	6,276,392	.	.	.	.	.
New Hampshire	.	.	.	.	59,000	.	.	9,511	.
New Jersey	74,843,698	77,469,875	90,107,061	76,090,588	73,649,989	60,990,057	92,267,379	79,923,599	101,438,203
New York	51,339,692	62,575,399	153,853,141	117,226,800	178,929,758	142,133,404	120,591,915	106,098,708	80,713,587
North Carolina	78,469,848	33,453,452	60,915,957	87,611,219	70,583,803	41,636,904	23,954,134	43,863,346	38,068,885
North Dakota	31,812,886	53,376,277	19,991,108	48,847,042	108,537,241	45,280,399	24,666,687	53,903,787	62,543,314
Ohio	341,798,999	530,788,095	884,125,989	1,216,348,179	1,728,523,660	1,702,615,896	2,078,849,724	1,755,642,873	1,520,681,385
Oklahoma	11,092,775	62,186,818	504,738	.	.	84,010	13,358,244	.	11,702,737
Oregon	388,110,204	182,637,110	402,945,102	381,553,051	278,127,532	35,292,036	166,150,223	54,831,859	100,464,378
Pennsylvania	11,151,344	11,133,835	3,824,207	.	69,929	.	92,349	239,090	241,921
Puerto Rico	.	2,833	.	.	.	.	.	.	12,000
South Carolina	4,412,186	10,266,898	12,730,788	17,710,192	30,981,211	34,984,700	22,038,202	41,847,137	44,359,662
South Dakota	4,526,024	139,056	17,845	12,721,442	27,691,643	19,720,204	34,289	4,996,254	43,312,266
Tennessee	41,219,134	24,745,148	9,321,634	5,057,994	3,254,442	6,833,051	10,898,192	2,361,000	649,837
Texas	864,505,095	501,918,706	435,627,903	380,427,005	227,044,932	170,329,849	351,426,337	123,319,547	23,003,627
Utah	.	.	.	.	.	.	12,081	.	.
Vermont	1,403,564	1,028,806	594,035	264,175	269,353	254,319	437,689	429,682	454,567
Virgin Islands	.	.	.	242,054	133,217	.	.	.	.
Virginia	427,597,503	327,187,228	699,793,313	726,250,755	784,315,854	586,236,529	698,594,949	595,598,525	699,439,644
Washington	4,136,462,553	3,691,428,435	5,477,640,695	4,637,625,695	5,382,152,728	3,775,920,088	4,048,962,755	3,787,834,446	2,388,833,273
West Virginia	.	.	.	.	203,220	.	.	6,826,399	.
Wisconsin	73,071,333	108,828,252	91,798,122	77,187,578	105,296,113	80,361,162	166,470,178	251,734,968	97,865,999

Table 6: ERS Estimate of U.S. State Soybean Grain Export Value, Annual Trends

Reporter	2010	2011	2012	2013	2014	2015	2016	2017	2018
Alabama	73,954,793	49,880,016	100,062,807	118,202,214	121,590,926	95,129,081	92,216,032	74,298,255	58,119,228
Arkansas	656,092,494	667,771,548	1,152,546,130	940,414,269	916,393,282	785,441,985	865,448,375	870,569,562	647,443,142
Florida	4,036,807	2,483,538	4,594,726	6,555,230	8,268,136	5,948,273	5,431,108	3,334,028	1,686,045
Georgia	61,774,041	25,405,273	45,494,532	61,742,843	70,200,264	63,459,255	58,536,299	34,597,922	22,484,895
Illinois	2,554,986,187	2,527,639,054	3,398,123,200	2,727,309,735	3,548,909,304	2,709,289,088	3,120,453,270	3,031,785,096	2,580,703,101
Indiana	1,523,260,747	1,450,088,039	1,971,017,449	1,633,199,461	2,005,419,264	1,505,921,700	1,669,883,295	1,648,609,538	1,313,500,996
Iowa	2,815,191,908	2,562,979,009	3,572,049,324	2,874,983,078	3,057,640,118	2,459,174,009	3,239,975,779	2,750,615,573	2,161,213,295
Kansas	903,962,842	578,026,928	686,912,168	760,958,611	791,467,166	625,146,168	1,000,108,456	896,886,997	707,570,180
Kentucky	322,737,838	306,157,628	396,887,192	508,286,156	544,727,467	449,025,120	481,443,407	458,572,572	401,368,894
Louisiana	245,762,017	202,695,127	413,118,148	370,329,977	464,737,281	355,171,808	313,242,546	356,290,982	243,526,731
Maryland	100,644,748	89,329,281	152,026,467	134,034,197	129,302,126	103,549,726	113,928,474	112,077,039	91,821,259
Michigan	467,952,282	483,227,066	677,407,600	540,205,249	537,774,238	463,530,158	559,896,674	511,953,226	398,267,086
Minnesota	1,679,340,585	1,561,243,877	2,344,476,592	2,010,695,810	1,912,360,654	1,566,283,798	2,071,758,552	1,839,744,706	1,468,819,668
Mississippi	459,058,852	389,375,792	711,713,581	625,237,467	687,432,296	538,833,562	587,601,480	564,757,415	460,410,514
Missouri	1,236,163,204	1,251,885,693	1,303,713,754	1,299,608,358	1,461,805,669	1,072,389,199	1,193,439,972	1,427,604,018	1,089,777,361
Nebraska	1,248,904,459	1,601,787,258	1,789,207,269	1,480,422,594	1,712,132,436	1,367,513,294	1,717,768,259	1,548,854,368	1,218,671,884
New Jersey	15,793,422	14,323,363	25,714,741	22,838,294	24,409,352	18,185,403	18,472,958	19,622,087	15,329,284
New York	67,455,851	66,266,797	96,575,196	91,148,007	87,536,000	64,093,153	71,893,653	59,613,716	53,152,044
North Carolina	311,485,890	248,756,891	384,247,762	391,873,231	380,345,371	337,575,309	273,837,455	354,968,176	229,042,615
North Dakota	669,967,641	695,879,713	1,146,629,155	933,591,300	1,165,768,640	771,725,190	1,272,664,285	1,053,397,508	887,896,380
Ohio	1,243,966,767	1,092,616,889	1,760,589,088	1,606,358,670	1,498,114,639	1,212,274,421	1,389,462,795	1,301,332,017	1,063,309,023
Oklahoma	69,354,261	39,161,395	28,394,061	48,691,072	64,952,907	52,593,577	69,967,399	79,912,523	65,642,938
Pennsylvania	118,894,400	114,019,661	177,057,054	175,045,246	172,166,347	126,586,469	138,611,215	135,445,312	105,340,083

Reporter	2010	2011	2012	2013	2014	2015	2016	2017	2018
South Carolina	71,052,952	54,267,104	86,065,742	74,986,201	81,555,217	62,829,914	62,617,123	70,079,757	51,127,503
South Dakota	836,118,289	766,202,177	1,176,848,188	1,087,858,191	1,300,941,680	1,041,864,717	1,363,891,852	1,172,612,686	899,135,824
Tennessee	267,913,182	249,894,559	322,762,121	395,358,683	487,978,412	424,184,076	370,266,723	396,135,014	299,397,470
Texas	28,720,975	16,132,372	19,080,472	17,368,085	24,156,890	18,162,622	20,623,714	28,042,931	18,797,904
Virginia	97,855,652	94,783,928	173,307,690	156,845,329	151,542,174	109,733,219	115,564,291	116,139,028	96,696,633
West Virginia	3,781,251	3,554,284	6,813,451	6,867,591	7,605,423	6,116,857	6,625,548	6,577,270	5,522,764
Wisconsin	417,306,169	352,698,466	595,204,686	424,123,118	402,902,749	413,427,748	536,137,009	495,676,864	379,483,339

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Table 7: NDSU, FAS and ERS Soybean Grain Export Value for North Dakota

Year	NDSU	FAS	ERS
2004	176,417,880	16,537,825	172,576,480
2005	206,445,024	14,995,466	176,105,139
2006	246,560,080	15,204,638	249,537,724
2007	388,443,847	26,299,636	378,063,952
2008	539,176,689	31,871,809	557,316,513
2009	550,721,268	24,744,387	573,534,627
2010	748,253,829	31,812,886	669,967,641
2011	624,472,118	53,376,277	695,879,713
2012	1,294,063,389	19,991,108	1,146,629,155
2013	866,901,586	48,847,042	933,591,300
2014	1,161,115,671	108,537,241	1,165,768,640
2015	846,756,197	45,280,399	771,725,190
2016	1,251,508,675	24,666,687	1,272,664,285
2017	1,122,286,931	53,903,787	1,053,397,508
2018	885,365,842	62,543,314	887,896,380

Statistical Method

The current data on state soybean exports do not reflect the major soybean production states. This is because of the dual problem of the absence of ports of exit in these states and the USDA, FAS's method of reporting state exports based on the ports of exit rather than state of origin. To address these issues, accurate state soybean export values are computed from state soybean production, U.S. soybean production and U.S. soybean export datasets. The following steps are implemented in the computation of accurate state soybean exports.

- State soybean production, $Y_{State}^{USDA,NASS}$ and total U.S. soybean production, $Y_{US}^{USDA,NASS}$ data is obtained over the study period from USDA, NASS
- State soybean export, $EX_{State}^{USDA,FAS}$ and total U.S. soybean export, $EX_{US}^{USDA,FAS}$ data is obtained over the study period from USDA, FAS.
- Computed the proportion of each state's soybean production relative to the total U.S. soybean production. This is defined as the state soybean production share, $Y_{State_US}^{Share}$. Hence, the soybean produced in each state is divided by the total soybean produced in U.S. for each year.
- Based on the assumption the total U.S. soybean export recorded by the USDA FAS is correct, we multiplied this value by the state soybean production share. This gives the estimated state soybean export based on the state soybean production and its contribution to the total U.S. soybean production.

Using the USDA, NASS and FAS variables, the accurate state soybean export is computed as:

$$\boxed{EX}_{State} = \frac{Y_{State}^{USDA,NASS}}{Y_{US}^{USDA,NASS}} * EX_{US}^{USDA,FAS}$$

Where,

$Y_{State}^{USDA,NASS}$ is state soybean production obtained from NASS,

$Y_{US}^{USDA,NASS}$ is the total U.S. soybean production and computed by summing individual state

production as, $Y_{US}^{USDA,NASS} = \sum_{s=1}^S Y_{State}^{USDA,NASS}$ and s is the number of states from 1 to S,

$Y_{State_US}^{Share}$ is the proportion of each state's soybean production relative to the total U.S. soybean production,

$EX_{US}^{USDA,FAS}$ is the total U.S. soybean export reported by USDA FAS,

\boxed{EX}_{State} is the estimated state soybean export.