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Farm Computer Usage and Ownership

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Update Alert – August 21, 2017

Farm Computer Usage and Ownership report released on August 18, 2017 by USDA’s National Agricultural Statistics Service (NASS) is being reissued due to a correction on page 10. The percent of farms in 2017 that purchase agricultural inputs over the internet has been updated.

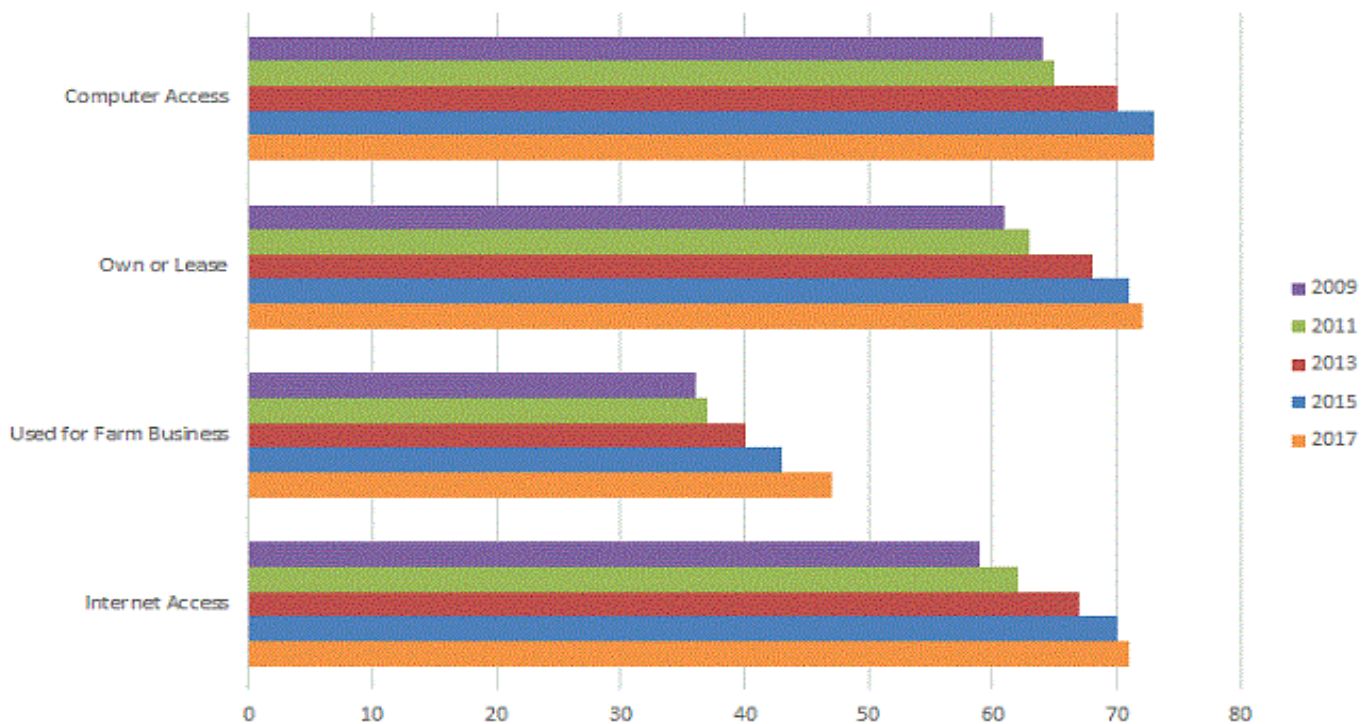
Farmers are Using Additional Methods to Access the Internet

In 2017, USDA-NASS added two additional methods that farmers could select for accessing the Internet. Fiber-optic and mobile Internet service for a cell phone or other device are the two access methods added to the Farm Computer Usage and Ownership report. Fiber-optic was used by 8 percent of the farms, and mobile Internet service was used by 17 percent. However, DSL (Digital Subscriber Line) connection continues to be the most common method of accessing the Internet, with 29 percent of the farms in the United States using it, down from 30 percent in 2015. A satellite connection, at 21 percent, remained steady from 2015. Other reported methods of accessing the Internet include cable modem service, dialup service, and other or don’t know. Cable modem service is at 15 percent, up 3 percentage points from 2015. Dialup service is at 2 percent, down 1 percentage point from 2015. Other or unknown is at 8 percent, up 3 percentage points from 2015.

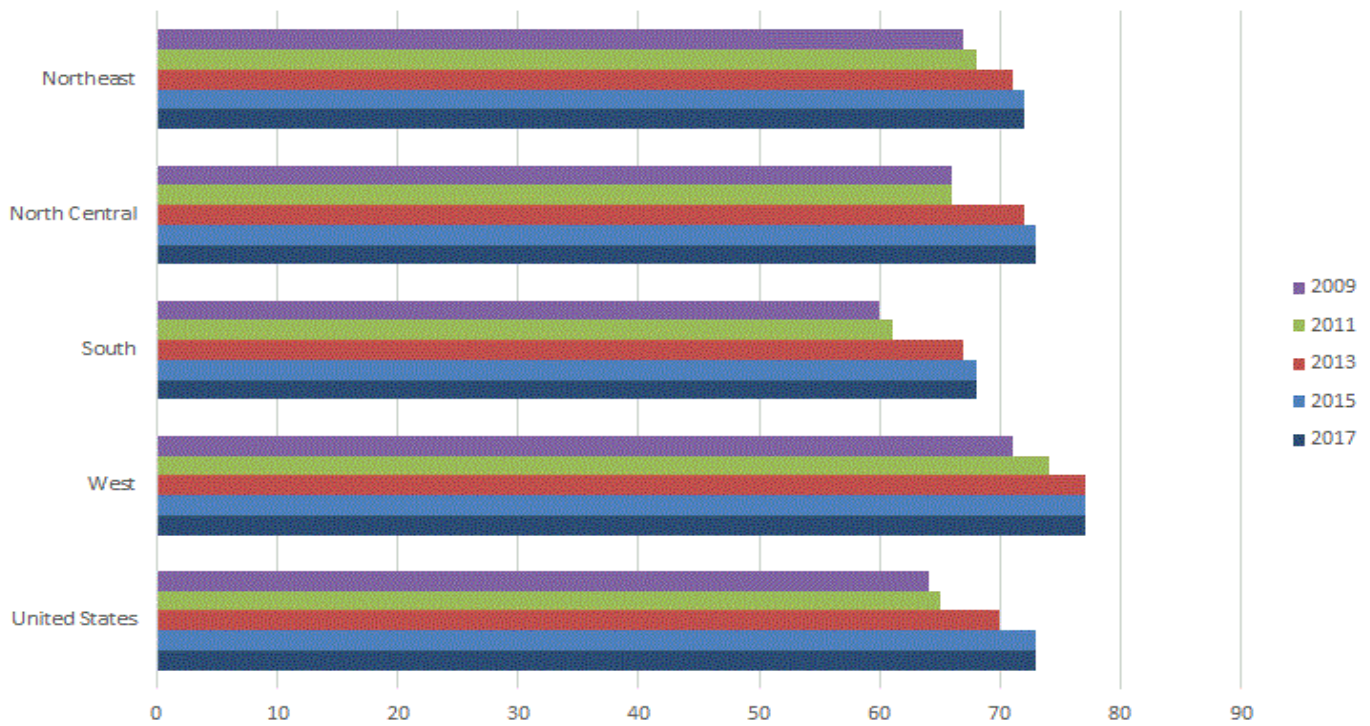
Nationally, 73 percent of farms have computer access. Of those farmers having computer access, 72 percent, up 1 percent from 2015, own or lease a computer. Computer access by national sales class is 71 percent for sales class \$1,000--\$9,999; 70 percent for sales class \$10,000--\$99,999; 76 percent for sales class \$100,000--\$249,999; and 85 percent for sales class \$250,000 or more.

Computer usage for farm business at 47 percent nationally, is up 4 percentage points from 2015. This compares with usage by the four geographic regions: West (49 percent), North Central (50 percent), Northeast (48 percent), and the South (42 percent). Comparing computer usage by crop and livestock farms nationally, 52 percent of the crop producers use the computer for farm business, compared to 42 percent of the livestock producers. A new questions in 2017, reported 39 percent of producers nationally use a tablet or smart phone for farm business.

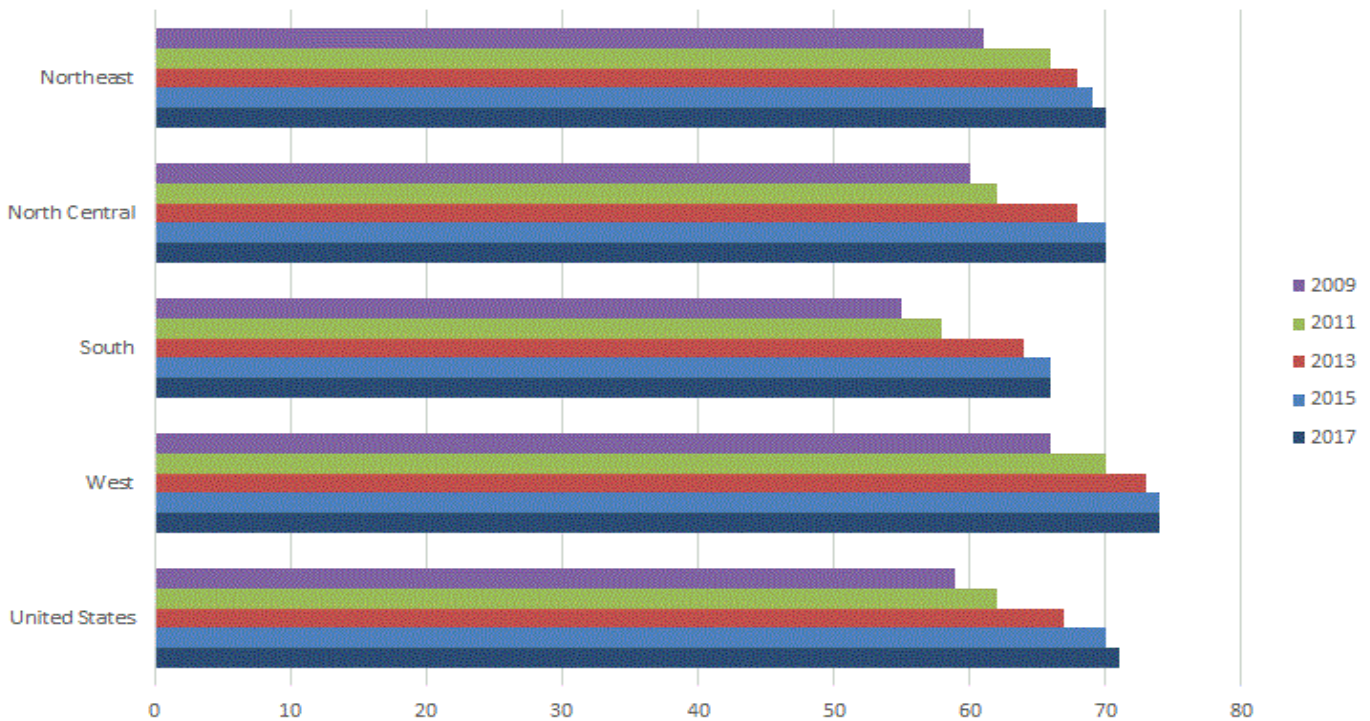
Farm Computer Usage and Ownership — United States: 2009-2017



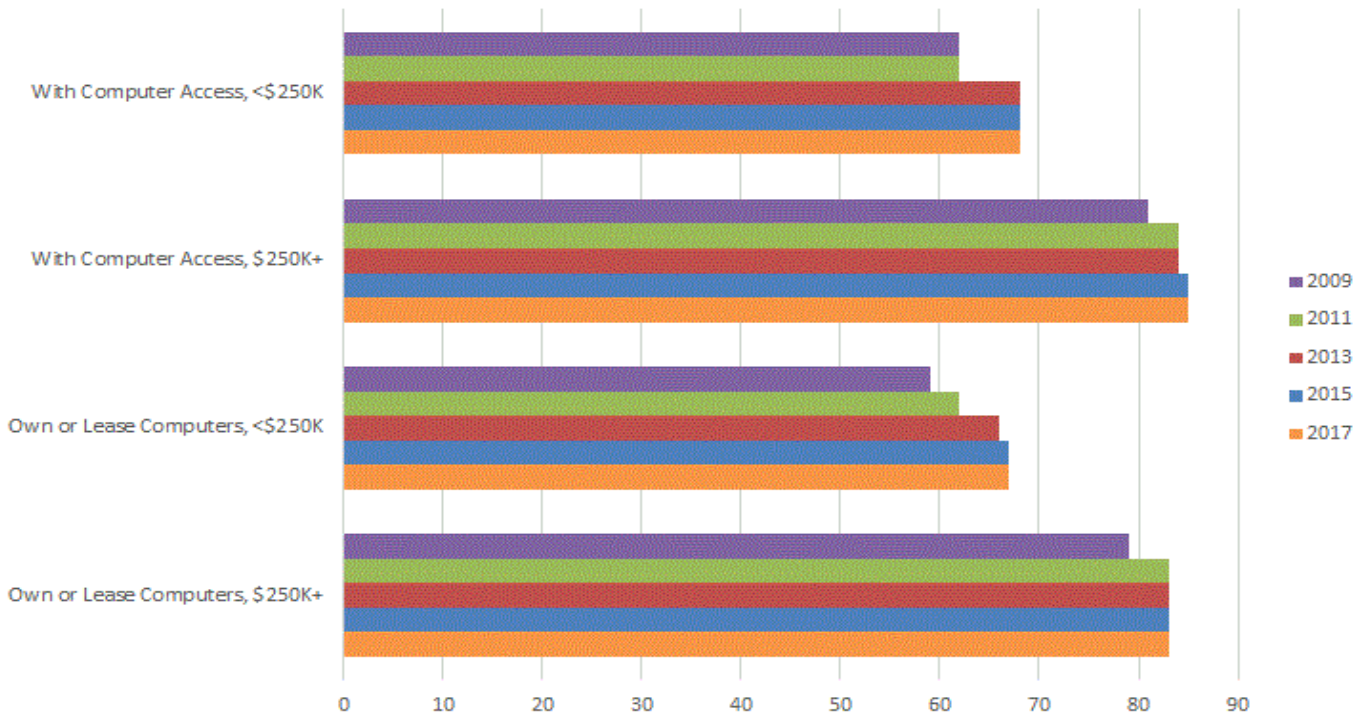
Percent of Farms With Computer Access by Regions and United States: 2009-2017



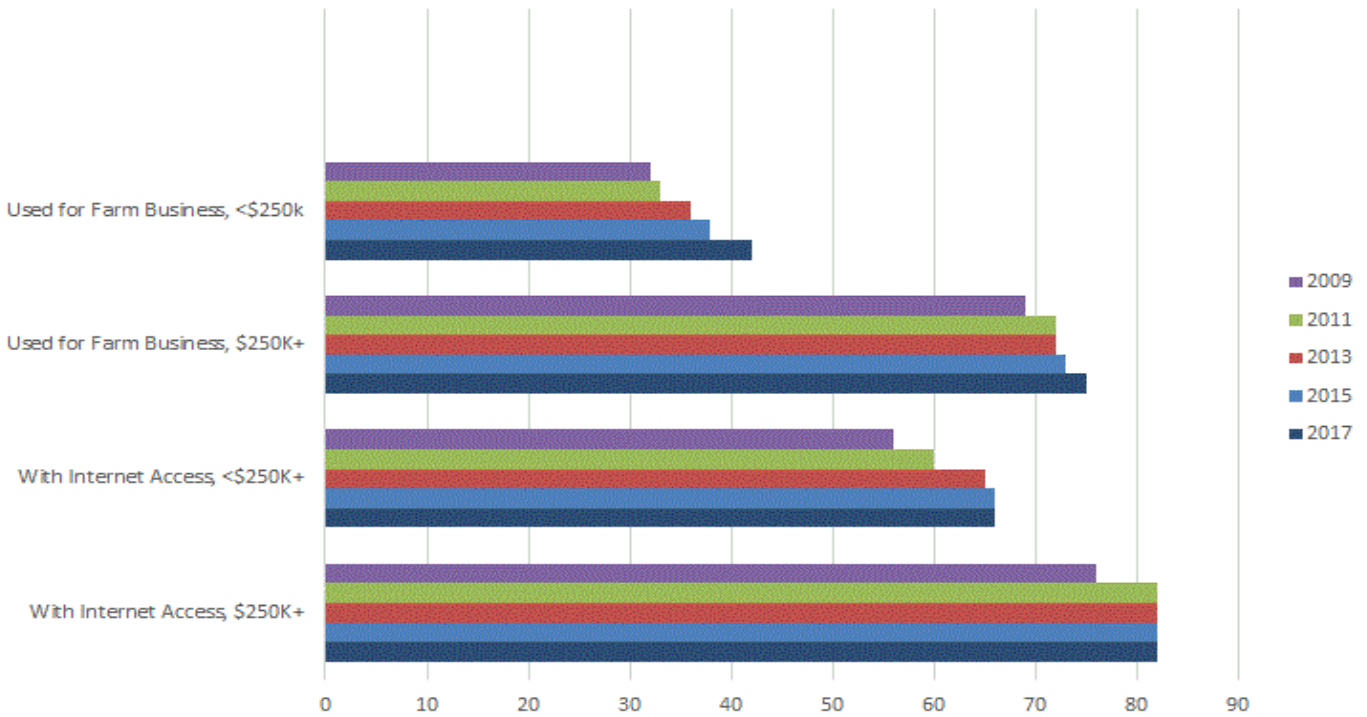
Percent of Farms With Internet Access by Regions and United States: 2009-2017



Farm Computer Access and Ownership by Economic Class — United States: 2009-2017



Farm Business Usage and Internet Access by Economic Class — United States: 2009-2017



Farm Computer Usage – States and United States: 2013, 2015, and 2017

State	Farms					
	With computer access			That own or lease computers		
	2013	2015	2017	2013	2015	2017
	(percent)					
Alabama	65	65	65	63	63	63
Arizona ¹	57	62	62	55	60	60
Arkansas	67	68	71	65	68	70
California	75	77	77	72	74	74
Colorado	78	79	79	77	79	79
Florida	71	71	71	70	70	70
Georgia	69	69	69	67	67	67
Idaho	83	83	83	80	80	80
Illinois	71	79	79	70	78	78
Indiana	66	72	76	65	70	75
Iowa	75	76	76	73	74	74
Kansas	71	72	72	70	70	70
Kentucky	64	65	65	61	61	65
Louisiana	68	73	73	64	72	72
Maryland ²	72	72	73	68	69	69
Michigan	71	71	71	69	69	71
Minnesota	74	80	80	71	78	78
Mississippi	62	68	68	59	64	65
Missouri	66	66	69	65	66	69
Montana	81	84	84	78	83	83
Nebraska	78	78	78	75	76	76
New Hampshire ³	83	84	84	81	81	81
New Jersey	80	82	82	79	79	79
New Mexico	60	63	63	58	61	61
New York	72	73	77	69	71	74
North Carolina	70	74	74	67	72	72
North Dakota	77	78	78	76	76	74
Ohio	68	69	69	65	68	68
Oklahoma	66	70	70	64	68	68
Oregon	84	85	85	81	81	81
Pennsylvania	62	64	64	60	62	62
South Carolina	68	70	70	67	67	67
South Dakota	74	75	75	72	74	74
Tennessee	64	68	68	61	62	66
Texas	68	75	75	66	73	74
Utah	83	86	86	80	82	82
Virginia	66	68	68	65	67	67
Washington	84	84	84	81	81	81
West Virginia	61	64	64	60	62	62
Wisconsin	76	77	77	73	73	73
Wyoming	81	85	87	80	84	84
United States ⁴	70	73	73	68	71	72

¹ Includes Arizona and Nevada.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Farm Computer Usage – States and United States: 2013, 2015, and 2017

State	Farms								
	Using computers for farm business			Use smart phone/ tablet for farm business			With Internet access		
	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)								
Alabama	33	33	37	(NA)	(NA)	32	61	64	65
Arizona ¹	31	32	43	(NA)	(NA)	32	55	62	62
Arkansas	36	40	45	(NA)	(NA)	41	64	67	67
California	44	54	64	(NA)	(NA)	48	72	76	76
Colorado	39	47	54	(NA)	(NA)	41	75	78	78
Florida	46	46	51	(NA)	(NA)	46	70	71	71
Georgia	34	38	38	(NA)	(NA)	41	66	68	68
Idaho	43	46	46	(NA)	(NA)	45	79	79	79
Illinois	53	55	59	(NA)	(NA)	53	70	72	78
Indiana	42	47	47	(NA)	(NA)	37	63	66	74
Iowa	53	53	55	(NA)	(NA)	43	71	74	74
Kansas	36	39	47	(NA)	(NA)	41	68	71	71
Kentucky	30	33	42	(NA)	(NA)	36	61	65	65
Louisiana	32	35	36	(NA)	(NA)	28	63	66	68
Maryland ²	37	44	49	(NA)	(NA)	52	68	70	70
Michigan	43	43	49	(NA)	(NA)	36	67	70	71
Minnesota	51	51	53	(NA)	(NA)	44	70	75	77
Mississippi	30	32	41	(NA)	(NA)	41	58	61	68
Missouri	30	40	43	(NA)	(NA)	32	62	66	66
Montana	48	54	56	(NA)	(NA)	40	77	77	79
Nebraska	47	56	56	(NA)	(NA)	48	72	75	75
New Hampshire ³	64	64	64	(NA)	(NA)	42	80	81	81
New Jersey	58	58	58	(NA)	(NA)	47	79	79	82
New Mexico	30	35	35	(NA)	(NA)	34	55	58	58
New York	39	42	59	(NA)	(NA)	44	69	72	76
North Carolina	34	42	46	(NA)	(NA)	38	66	71	71
North Dakota	51	56	62	(NA)	(NA)	53	73	75	75
Ohio	36	39	40	(NA)	(NA)	32	65	68	68
Oklahoma	36	39	41	(NA)	(NA)	39	63	69	69
Oregon	48	51	55	(NA)	(NA)	49	80	82	82
Pennsylvania	34	38	40	(NA)	(NA)	31	59	62	62
South Carolina	32	32	32	(NA)	(NA)	32	63	67	67
South Dakota	38	46	50	(NA)	(NA)	34	72	75	75
Tennessee	29	35	41	(NA)	(NA)	30	61	65	65
Texas	36	37	42	(NA)	(NA)	34	66	68	70
Utah	45	48	51	(NA)	(NA)	45	76	78	78
Virginia	29	35	44	(NA)	(NA)	38	64	68	68
Washington	44	49	49	(NA)	(NA)	39	80	80	80
West Virginia	31	35	39	(NA)	(NA)	24	58	61	61
Wisconsin	46	47	49	(NA)	(NA)	35	72	72	73
Wyoming	47	54	58	(NA)	(NA)	42	78	79	83
United States ⁴	40	43	47	(NA)	(NA)	39	67	70	71

(NA) Not available.

¹ Includes Arizona and Nevada.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Use of Internet – States and United States: 2013, 2015, and 2017

[Agricultural inputs include seed, fertilizer, chemicals, veterinarian supplies, feed, machinery, replacement parts, farm supplies, office equipment, etc. Agricultural marketing activities include direct sales of commodities, on-line crop and livestock auctions, on-line market advisory services, commodity price tracking, etc.]

State	Farms					
	Purchase agricultural inputs over Internet			Conduct agricultural marketing activities over Internet		
	2013	2015	2017	2013	2015	2017
	(percent)					
Alabama	12	11	17	14	13	13
Arizona ¹	16	21	31	12	16	28
Arkansas	17	20	23	12	13	17
California	18	21	28	14	15	19
Colorado	21	20	27	14	12	24
Florida	16	21	26	14	12	17
Georgia	18	26	26	12	15	15
Idaho	20	21	21	9	14	14
Illinois	21	20	24	19	22	25
Indiana	14	24	24	16	22	22
Iowa	19	22	22	30	28	29
Kansas	14	15	22	11	14	14
Kentucky	12	16	18	9	12	17
Louisiana	11	16	23	6	5	11
Maryland ²	21	24	25	14	18	23
Michigan	22	21	24	19	17	18
Minnesota	16	15	22	24	20	24
Mississippi	10	13	26	5	10	12
Missouri	10	18	25	8	15	15
Montana	21	36	36	17	27	27
Nebraska	16	22	22	19	24	24
New Hampshire ³	43	40	40	33	28	28
New Jersey	37	38	44	21	25	27
New Mexico	16	16	27	8	10	22
New York	22	28	33	13	16	21
North Carolina	19	20	20	16	16	19
North Dakota	16	22	24	20	20	27
Ohio	11	15	16	12	16	16
Oklahoma	16	20	20	12	12	14
Oregon	27	28	30	20	24	24
Pennsylvania	17	23	27	12	11	15
South Carolina	10	13	15	8	6	8
South Dakota	13	12	14	12	15	19
Tennessee	11	17	21	10	11	12
Texas	11	14	15	8	12	12
Utah	23	27	27	13	17	28
Virginia	12	21	29	10	15	17
Washington	14	22	34	14	20	26
West Virginia	20	19	25	10	8	11
Wisconsin	17	19	24	17	16	20
Wyoming	27	33	33	13	17	20
United States ⁴	16	19	23	14	16	18

¹ Includes Arizona and Nevada.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Internet Access of Reports, Services, and Websites – States and United States: 2013, 2015, and 2017

[Reference period for access and usage of USDA reports, research information, and services is the last 12 months prior to June 1 of survey year]

State	Farms								
	Access USDA/NASS reports over Internet			Access other USDA reports/services over Internet			Access other federal government websites over Internet		
	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)								
Alabama	3	5	5	11	11	12	12	12	7
Arizona ¹	2	6	18	10	20	21	12	23	30
Arkansas	10	13	14	15	21	23	12	22	21
California	4	16	14	15	24	24	15	24	28
Colorado	7	9	11	14	18	22	19	21	20
Florida	9	9	11	13	15	17	14	19	20
Georgia	6	10	6	10	18	16	10	11	19
Idaho	16	16	16	25	25	21	25	28	20
Illinois	13	14	15	21	22	24	17	19	17
Indiana	14	14	14	18	19	17	16	16	18
Iowa	15	17	16	23	25	23	15	18	16
Kansas	8	8	8	15	17	17	12	13	18
Kentucky	6	8	8	9	15	13	7	9	11
Louisiana	3	7	8	7	10	12	6	9	9
Maryland ²	5	8	11	16	16	24	21	21	24
Michigan	12	12	8	12	14	13	15	16	17
Minnesota	11	12	12	19	19	19	13	15	18
Mississippi	7	8	8	11	14	17	10	13	20
Missouri	6	11	11	12	15	15	9	15	14
Montana	10	11	15	16	19	23	24	28	27
Nebraska	11	19	13	19	26	20	14	20	18
New Hampshire ³ ..	14	14	14	27	27	27	37	31	29
New Jersey	10	10	10	20	21	20	20	24	31
New Mexico	7	10	10	5	13	13	10	12	8
New York	5	8	10	12	14	17	18	24	27
North Carolina	9	9	10	13	15	15	12	14	11
North Dakota	11	15	18	21	26	28	14	20	22
Ohio	5	8	7	10	12	13	11	15	16
Oklahoma	12	12	9	14	17	22	14	16	17
Oregon	7	12	10	16	22	22	32	28	23
Pennsylvania	5	6	9	10	12	15	13	15	18
South Carolina	13	13	13	15	15	15	9	9	5
South Dakota	11	11	11	16	16	15	14	15	13
Tennessee	6	9	13	11	13	17	10	10	18
Texas	4	6	6	8	11	12	12	15	17
Utah	12	16	18	20	24	26	20	24	17
Virginia	4	8	10	12	13	16	19	24	17
Washington	10	10	15	17	17	21	23	25	33
West Virginia	7	7	5	16	16	15	14	19	10
Wisconsin	9	10	12	16	16	21	21	21	17
Wyoming	6	6	15	10	21	21	18	23	27
United States ⁴	8	10	11	14	17	18	14	17	18

¹ Includes Arizona and Nevada.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Conducting Business on the Internet – States and United States: 2013, 2015, and 2017

State	Farms					
	Conduct business with any USDA website			Conduct business with any other federal government website		
	2013	2015	2017	2013	2015	2017
	(percent)					
Alabama	7	7	7	1	1	3
Arizona ¹	2	8	17	2	7	13
Arkansas	11	11	13	9	12	13
California	6	15	15	6	12	13
Colorado	10	10	12	7	10	10
Florida	5	6	13	5	8	14
Georgia	5	9	9	4	6	8
Idaho	4	8	8	3	7	7
Illinois	8	14	14	7	8	8
Indiana	7	10	10	6	6	8
Iowa	9	11	12	6	8	9
Kansas	7	11	11	4	9	13
Kentucky	3	4	7	2	3	5
Louisiana	5	5	5	3	4	4
Maryland ²	3	12	12	4	5	7
Michigan	6	10	10	3	7	7
Minnesota	9	10	10	4	5	8
Mississippi	6	6	9	5	5	5
Missouri	5	9	9	2	8	8
Montana	7	7	9	6	7	8
Nebraska	10	13	13	5	9	9
New Hampshire ³	20	20	16	12	12	12
New Jersey	11	13	13	9	12	12
New Mexico	6	6	7	5	5	7
New York	1	4	7	1	3	12
North Carolina	6	6	6	5	7	7
North Dakota	14	14	17	5	9	12
Ohio	3	6	6	4	5	7
Oklahoma	7	7	7	3	7	7
Oregon	6	12	12	9	10	10
Pennsylvania	4	7	9	7	7	11
South Carolina	7	7	7	1	3	3
South Dakota	8	9	9	5	5	5
Tennessee	6	6	8	4	6	8
Texas	4	6	6	5	6	6
Utah	10	13	14	7	10	11
Virginia	4	7	8	3	5	7
Washington	9	9	14	11	11	14
West Virginia	6	6	6	3	6	6
Wisconsin	6	9	9	8	8	8
Wyoming	6	6	7	3	6	11
United States ⁴	6	9	10	5	7	8

¹ Includes Arizona and Nevada.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Conducting Business on the Internet – States and United States: 2013, 2015, and 2017

State	Farms		
	Conduct business with any non-agricultural website		
	2013	2015	2017
	(percent)		
Alabama	30	31	27
Arizona ¹	28	48	43
Arkansas	29	37	32
California	44	58	54
Colorado	50	53	48
Florida	49	51	51
Georgia	30	35	30
Idaho	54	54	57
Illinois	47	51	54
Indiana	43	45	45
Iowa	46	46	44
Kansas	36	39	39
Kentucky	31	31	40
Louisiana	30	30	29
Maryland ²	49	49	43
Michigan	49	49	43
Minnesota	50	50	55
Mississippi	30	30	39
Missouri	31	37	38
Montana	65	65	60
Nebraska	48	51	47
New Hampshire ³	70	69	61
New Jersey	49	51	58
New Mexico	32	32	26
New York	30	48	52
North Carolina	35	44	49
North Dakota	43	52	48
Ohio	31	34	30
Oklahoma	39	42	37
Oregon	56	58	49
Pennsylvania	29	37	34
South Carolina	36	36	27
South Dakota	38	43	36
Tennessee	25	31	40
Texas	44	44	47
Utah	54	57	57
Virginia	40	40	38
Washington	53	53	55
West Virginia	24	34	30
Wisconsin	47	47	47
Wyoming	45	55	60
United States ⁴	40	44	44

¹ Includes Arizona and Nevada.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Primary Method of Internet Access – States and United States: 2013, 2015, and 2017

[Primary method of Internet access for those operators who have access to the Internet]

State	Farms								
	Dialup			DSL			Cable		
	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)								
Alabama	6	5	4	36	21	21	9	19	15
Arizona ¹	3	2	1	29	23	23	10	2	20
Arkansas	6	5	3	41	35	35	10	14	19
California	1	1	1	27	20	20	24	10	18
Colorado	3	3	1	22	25	17	6	4	11
Florida	1	1	1	44	43	42	7	18	18
Georgia	4	4	4	54	48	51	7	4	11
Idaho	12	2	1	34	28	30	11	6	14
Illinois	2	2	2	26	26	26	17	14	11
Indiana	7	4	2	33	24	27	5	7	11
Iowa	6	5	3	34	26	26	11	14	8
Kansas	6	2	1	25	25	25	18	17	10
Kentucky	1	2	2	50	52	28	13	4	17
Louisiana	1	1	1	33	27	29	8	18	17
Maryland ²	4	1	2	20	18	22	23	26	25
Michigan	7	7	1	24	21	22	17	17	19
Minnesota	7	2	2	43	28	25	7	11	7
Mississippi	8	3	3	47	31	25	10	8	7
Missouri	6	4	2	35	29	24	5	11	6
Montana	3	2	2	66	47	32	3	8	6
Nebraska	3	1	1	38	27	32	5	8	4
New Hampshire ³ ..	1	1	1	36	34	34	38	33	46
New Jersey	1	2	1	24	26	26	69	43	43
New Mexico	4	2	2	61	28	31	6	5	11
New York	7	6	2	30	22	30	34	25	35
North Carolina	8	6	3	54	45	39	14	19	26
North Dakota	4	3	3	31	34	16	30	16	5
Ohio	11	5	5	24	20	25	17	20	18
Oklahoma	4	4	4	30	26	26	4	9	9
Oregon	6	7	4	29	23	32	15	7	20
Pennsylvania	7	3	3	43	43	37	23	23	28
South Carolina	7	3	3	46	49	25	5	12	26
South Dakota	6	4	4	40	27	27	8	16	7
Tennessee	4	2	2	34	33	29	20	14	16
Texas	6	3	3	32	26	27	11	10	15
Utah	1	1	1	53	32	36	11	15	26
Virginia	19	2	2	20	37	43	3	6	6
Washington	5	3	3	34	27	34	19	9	18
West Virginia	7	2	1	34	50	47	12	11	15
Wisconsin	3	3	2	43	34	39	5	7	7
Wyoming	9	1	1	34	22	22	3	2	4
United States ⁴	5	3	2	35	30	29	13	12	15

¹ Includes Arizona and Nevada.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Primary Method of Internet Access – States and United States: 2013, 2015, and 2017

[Primary method of Internet access for those operators who have access to the Internet]

State	Farms											
	Fiber optic			Mobile			Satellite			Other/unknown		
	2013	2015	2017	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)											
Alabama	(NA)	(NA)	9	(NA)	(NA)	6	28	28	43	2	2	2
Arizona ¹	(NA)	(NA)	13	(NA)	(NA)	7	35	39	32	15	3	4
Arkansas	(NA)	(NA)	2	(NA)	(NA)	23	11	22	12	11	4	6
California	(NA)	(NA)	1	(NA)	(NA)	12	20	34	29	9	7	19
Colorado	(NA)	(NA)	13	(NA)	(NA)	14	31	31	22	7	6	22
Florida	(NA)	(NA)	1	(NA)	(NA)	12	19	18	23	16	4	3
Georgia	(NA)	(NA)	3	(NA)	(NA)	7	7	20	15	4	2	9
Idaho	(NA)	(NA)	2	(NA)	(NA)	11	12	28	27	3	4	15
Illinois	(NA)	(NA)	5	(NA)	(NA)	16	19	23	32	5	2	8
Indiana	(NA)	(NA)	9	(NA)	(NA)	21	16	22	23	5	5	7
Iowa	(NA)	(NA)	15	(NA)	(NA)	20	14	19	18	7	8	10
Kansas	(NA)	(NA)	7	(NA)	(NA)	16	17	20	30	5	2	11
Kentucky	(NA)	(NA)	9	(NA)	(NA)	19	16	17	15	8	8	10
Louisiana	(NA)	(NA)	1	(NA)	(NA)	25	22	20	19	16	4	8
Maryland ²	(NA)	(NA)	7	(NA)	(NA)	17	18	20	22	5	4	5
Michigan	(NA)	(NA)	3	(NA)	(NA)	24	7	17	23	11	4	8
Minnesota	(NA)	(NA)	23	(NA)	(NA)	18	10	16	20	6	6	5
Mississippi	(NA)	(NA)	7	(NA)	(NA)	33	17	20	21	6	4	4
Missouri	(NA)	(NA)	10	(NA)	(NA)	16	23	23	31	2	1	11
Montana	(NA)	(NA)	22	(NA)	(NA)	15	11	18	15	2	1	8
Nebraska	(NA)	(NA)	7	(NA)	(NA)	21	12	23	16	8	2	19
New Hampshire ³	(NA)	(NA)	7	(NA)	(NA)	3	6	7	3	8	6	6
New Jersey	(NA)	(NA)	5	(NA)	(NA)	9	5	14	2	(Z)	2	14
New Mexico	(NA)	(NA)	4	(NA)	(NA)	28	14	41	11	6	5	13
New York	(NA)	(NA)	1	(NA)	(NA)	13	12	18	6	4	5	13
North Carolina	(NA)	(NA)	1	(NA)	(NA)	16	6	10	13	5	5	2
North Dakota	(NA)	(NA)	57	(NA)	(NA)	11	9	11	4	7	9	4
Ohio	(NA)	(NA)	3	(NA)	(NA)	13	15	19	28	3	6	8
Oklahoma	(NA)	(NA)	3	(NA)	(NA)	27	28	20	23	5	3	8
Oregon	(NA)	(NA)	5	(NA)	(NA)	12	23	23	21	6	3	6
Pennsylvania	(NA)	(NA)	2	(NA)	(NA)	20	9	6	5	5	4	5
South Carolina	(NA)	(NA)	4	(NA)	(NA)	20	13	11	15	(Z)	3	7
South Dakota	(NA)	(NA)	30	(NA)	(NA)	15	9	15	7	10	5	10
Tennessee	(NA)	(NA)	12	(NA)	(NA)	19	11	19	15	5	5	7
Texas	(NA)	(NA)	4	(NA)	(NA)	18	24	27	26	4	5	7
Utah	(NA)	(NA)	5	(NA)	(NA)	6	5	19	21	2	5	5
Virginia	(NA)	(NA)	3	(NA)	(NA)	18	12	19	19	13	4	9
Washington	(NA)	(NA)	3	(NA)	(NA)	13	21	33	20	9	4	9
West Virginia	(NA)	(NA)	7	(NA)	(NA)	9	20	17	12	2	2	9
Wisconsin	(NA)	(NA)	6	(NA)	(NA)	25	13	22	15	4	2	6
Wyoming	(NA)	(NA)	12	(NA)	(NA)	22	39	32	29	3	1	10
United States ⁴	(NA)	(NA)	8	(NA)	(NA)	17	17	21	21	6	5	8

(NA) Not available.

(Z) Less than half of the unit shown.

¹ Includes Arizona and Nevada.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Farm Computer Usage by Economic Class, Type of Farm – Regions and United States: 2013, 2015, and 2017

[Economic class refers to sales and government payments received during the previous year]

Region	Farms					
	With computer access			That own or lease computers		
	2013	2015	2017	2013	2015	2017
	(percent)					
Northeast ¹	71	72	72	69	71	72
\$1,000 to \$9,999	73	75	75	71	73	73
\$10,000 to \$99,999	70	72	72	67	70	71
\$100,000 or more	68	68	70	66	66	69
\$100,000 to \$249,999	57	57	65	56	56	65
\$250,000 or more	79	79	79	75	76	77
Crop farms	72	73	73	69	70	70
Livestock farms	70	71	71	68	69	69
North Central ²	72	73	73	70	72	73
\$1,000 to \$9,999	68	69	69	66	68	68
\$10,000 to \$99,999	69	71	71	67	68	68
\$100,000 or more	80	80	80	78	78	78
\$100,000 to \$249,999	71	71	73	69	69	73
\$250,000 or more	85	85	85	83	83	84
Crop farms	72	74	74	70	72	73
Livestock farms	71	73	73	69	69	72
South ³	67	68	68	65	67	67
\$1,000 to \$9,999	66	67	67	64	66	67
\$10,000 to \$99,999	66	66	66	63	63	66
\$100,000 or more	77	77	78	75	76	78
\$100,000 to \$249,999	70	71	75	69	70	75
\$250,000 or more	81	81	81	78	78	81
Crop farms	68	69	70	65	66	70
Livestock farms	67	69	69	65	68	68
West ⁴	77	77	77	75	75	76
\$1,000 to \$9,999	73	73	73	71	71	71
\$10,000 to \$99,999	77	79	79	75	77	77
\$100,000 or more	86	88	90	85	85	89
\$100,000 to \$249,999	80	82	91	79	79	89
\$250,000 or more	90	91	91	89	91	91
Crop farms	79	81	81	77	78	78
Livestock farms	75	76	76	73	73	73
United States ⁵	70	73	73	68	71	72
\$1,000 to \$9,999	67	71	71	66	69	69
\$10,000 to \$99,999	68	70	70	66	67	67
\$100,000 or more	80	80	80	78	78	80
\$100,000 to \$249,999	73	73	76	71	71	76
\$250,000 or more	84	85	85	83	83	83
Crop farms	71	73	73	69	71	72
Livestock farms	70	73	73	67	69	70

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

² Includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

³ Includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

⁴ Includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Excludes Alaska and Hawaii.

Farm Computer Usage by Economic Class, Type of Farm – Regions and United States: 2013, 2015, and 2017

[Economic class refers to sales and government payments received during the previous year]

Region	Farms								
	Using computers for farm business			Use smart phone/ tablet for farm business			With Internet access		
	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)								
Northeast ¹	44	45	48	(NA)	(NA)	38	68	69	70
\$1,000 to \$9,999	35	38	38	(NA)	(NA)	34	70	72	72
\$10,000 to \$99,999	53	53	55	(NA)	(NA)	38	67	69	69
\$100,000 or more	61	61	65	(NA)	(NA)	50	64	64	70
\$100,000 to \$249,999	47	47	62	(NA)	(NA)	45	56	56	69
\$250,000 or more	70	70	70	(NA)	(NA)	54	73	73	73
Crop farms	44	45	46	(NA)	(NA)	38	68	70	70
Livestock farms	44	46	49	(NA)	(NA)	38	67	68	69
North Central ²	44	46	50	(NA)	(NA)	40	68	70	70
\$1,000 to \$9,999	27	28	31	(NA)	(NA)	25	65	67	67
\$10,000 to \$99,999	41	44	50	(NA)	(NA)	40	64	67	68
\$100,000 or more	65	67	68	(NA)	(NA)	55	77	78	78
\$100,000 to \$249,999	56	59	62	(NA)	(NA)	48	68	69	73
\$250,000 or more	72	72	73	(NA)	(NA)	59	82	82	82
Crop farms	48	50	53	(NA)	(NA)	43	68	69	70
Livestock farms	37	40	45	(NA)	(NA)	35	67	68	69
South ³	34	36	42	(NA)	(NA)	36	64	66	66
\$1,000 to \$9,999	26	30	35	(NA)	(NA)	30	63	65	65
\$10,000 to \$99,999	42	42	44	(NA)	(NA)	38	63	63	66
\$100,000 or more	60	62	68	(NA)	(NA)	61	75	76	79
\$100,000 to \$249,999	52	53	64	(NA)	(NA)	57	69	70	74
\$250,000 or more	67	70	73	(NA)	(NA)	64	78	79	82
Crop farms	35	37	46	(NA)	(NA)	42	64	66	70
Livestock farms	33	36	40	(NA)	(NA)	34	64	66	66
West ⁴	43	48	49	(NA)	(NA)	43	73	74	74
\$1,000 to \$9,999	29	37	37	(NA)	(NA)	27	69	69	69
\$10,000 to \$99,999	53	57	58	(NA)	(NA)	48	73	76	76
\$100,000 or more	68	72	83	(NA)	(NA)	72	83	85	89
\$100,000 to \$249,999	60	60	77	(NA)	(NA)	64	76	78	90
\$250,000 or more	73	82	86	(NA)	(NA)	76	87	88	89
Crop farms	46	54	60	(NA)	(NA)	54	75	77	79
Livestock farms	40	44	44	(NA)	(NA)	35	71	72	72
United States ⁵	40	43	47	(NA)	(NA)	39	67	70	71
\$1,000 to \$9,999	28	32	33	(NA)	(NA)	29	65	67	67
\$10,000 to \$99,999	45	45	49	(NA)	(NA)	40	65	66	68
\$100,000 or more	66	66	71	(NA)	(NA)	59	77	78	79
\$100,000 to \$249,999	56	57	65	(NA)	(NA)	53	69	71	76
\$250,000 or more	72	73	75	(NA)	(NA)	63	82	82	82
Crop farms	45	47	52	(NA)	(NA)	44	68	70	71
Livestock farms	36	39	42	(NA)	(NA)	35	66	68	68

(NA) Not available.

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

² Includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

³ Includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

⁴ Includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Excludes Alaska and Hawaii.

Use of Internet by Economic Class, Type of Farm – Regions and United States: 2013, 2015, and 2017

[Economic class refers to sales and government payments received during the previous year. Agricultural inputs include seed, fertilizer, chemicals, veterinarian supplies, feed, machinery, replacement parts, farm supplies, office equipment, etc. Agricultural marketing activities include direct sales of commodities, on-line crop and livestock auctions, on-line market advisory services, commodity price tracking, etc.]

Region	Farms					
	Purchase agricultural inputs over Internet			Conduct agricultural marketing activities over Internet		
	2013	2015	2017	2013	2015	2017
	(percent)					
Northeast ¹	26	27	33	17	17	19
\$1,000 to \$9,999	21	25	27	12	12	13
\$10,000 to \$99,999	28	29	36	25	25	25
\$100,000 or more	38	38	44	23	23	29
\$100,000 to \$249,999	30	31	45	14	22	31
\$250,000 or more	45	45	45	30	30	30
Crop farms	24	28	33	17	19	20
Livestock farms	28	28	33	17	17	19
North Central ²	16	18	22	18	19	20
\$1,000 to \$9,999	9	10	13	6	8	8
\$10,000 to \$99,999	14	17	20	15	17	18
\$100,000 or more	26	29	32	33	33	34
\$100,000 to \$249,999	20	23	26	26	26	27
\$250,000 or more	29	32	35	37	37	38
Crop farms	17	19	22	21	22	23
Livestock farms	14	17	21	12	15	16
South ³	13	17	19	10	12	13
\$1,000 to \$9,999	9	13	14	6	8	8
\$10,000 to \$99,999	17	18	21	15	15	15
\$100,000 or more	29	32	37	27	29	34
\$100,000 to \$249,999	24	26	32	23	23	29
\$250,000 or more	33	38	42	29	33	38
Crop farms	13	17	21	10	13	15
Livestock farms	13	17	18	10	11	13
West ⁴	20	23	29	14	17	21
\$1,000 to \$9,999	15	15	15	8	9	9
\$10,000 to \$99,999	24	28	38	18	26	29
\$100,000 or more	31	40	51	27	32	43
\$100,000 to \$249,999	23	33	57	24	24	44
\$250,000 or more	36	45	47	30	38	41
Crop farms	19	24	35	15	21	27
Livestock farms	20	22	24	14	15	17
United States ⁵	16	19	23	14	16	18
\$1,000 to \$9,999	10	14	15	7	8	9
\$10,000 to \$99,999	17	20	24	16	16	19
\$100,000 or more	27	32	37	30	31	35
\$100,000 to \$249,999	22	26	34	24	25	31
\$250,000 or more	31	36	39	34	35	38
Crop farms	16	20	25	17	19	21
Livestock farms	15	19	21	12	13	15

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

² Includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

³ Includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

⁴ Includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Excludes Alaska and Hawaii.

Internet Access of Reports, Services, and Websites by Economic Class, Type of Farm – Regions and United States: 2013, 2015, and 2017

[Economic class refers to sales and government payments received during the previous year. Reference period for access and usage of USDA reports, research information, and services in the last 12 months prior to June 1 of survey year]

Region	Farms								
	Access USDA/NASS reports over Internet			Access other USDA reports/services over Internet			Access other federal government websites over Internet		
	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)								
Northeast ¹	7	7	10	16	15	18	20	20	24
\$1,000 to \$9,999	4	4	8	10	10	13	17	20	20
\$10,000 to \$99,999	11	11	12	23	22	19	23	22	27
\$100,000 or more	10	12	15	23	23	31	23	22	30
\$100,000 to \$249,999	10	11	11	19	19	28	19	19	22
\$250,000 or more	11	14	18	27	26	30	26	25	34
Crop farms	10	10	10	18	18	19	24	23	25
Livestock farms	4	5	11	14	13	18	16	17	22
North Central ²	10	12	11	17	18	19	14	16	17
\$1,000 to \$9,999	5	5	4	7	8	7	10	11	12
\$10,000 to \$99,999	8	11	10	15	15	17	12	14	16
\$100,000 or more	19	21	21	30	32	32	22	24	23
\$100,000 to \$249,999	14	17	16	25	26	24	16	19	17
\$250,000 or more	23	23	24	34	35	37	26	27	27
Crop farms	13	14	13	20	22	21	17	18	19
Livestock farms	7	8	8	11	12	14	11	13	13
South ³	7	8	8	11	13	15	12	14	16
\$1,000 to \$9,999	4	5	5	7	8	11	10	12	14
\$10,000 to \$99,999	10	10	9	15	17	18	14	14	16
\$100,000 or more	14	17	17	25	29	31	19	25	27
\$100,000 to \$249,999	9	12	13	19	21	26	17	21	22
\$250,000 or more	18	22	21	30	36	35	21	28	31
Crop farms	7	10	10	12	16	19	13	14	19
Livestock farms	6	7	7	11	13	14	11	14	15
West ⁴	8	11	13	15	19	18	20	23	25
\$1,000 to \$9,999	5	6	7	10	11	8	19	19	16
\$10,000 to \$99,999	11	13	12	17	26	20	16	27	28
\$100,000 or more	14	23	29	26	34	38	27	33	42
\$100,000 to \$249,999	10	22	22	20	29	29	22	24	33
\$250,000 or more	17	23	32	30	37	44	30	39	45
Crop farms	8	15	18	15	23	24	21	25	32
Livestock farms	8	8	10	15	16	13	19	22	20
United States ⁵	8	10	11	14	17	18	14	17	18
\$1,000 to \$9,999	4	5	6	8	9	9	12	13	14
\$10,000 to \$99,999	9	10	10	16	17	18	14	16	18
\$100,000 or more	17	20	21	28	31	33	22	25	28
\$100,000 to \$249,999	12	16	16	22	25	25	17	20	22
\$250,000 or more	20	22	25	32	35	38	25	29	32
Crop farms	10	13	13	17	20	21	17	19	22
Livestock farms	7	7	8	11	13	14	13	15	16

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

² Includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

³ Includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

⁴ Includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Excludes Alaska and Hawaii.

Conducting Business on the Internet by Economic Class, Type of Farm – Regions and United States: 2013, 2015, and 2017

[Economic class refers to sales and government payments received during the previous year]

Region	Farms					
	Conduct business with any USDA website			Conduct business with any other federal government website		
	2013	2015	2017	2013	2015	2017
	(percent)					
Northeast ¹	7	7	9	7	6	12
\$1,000 to \$9,999	6	5	6	5	4	9
\$10,000 to \$99,999	9	10	10	8	8	9
\$100,000 or more	11	13	16	12	10	19
\$100,000 to \$249,999	9	9	14	10	9	18
\$250,000 or more	12	15	18	13	12	21
Crop farms	10	9	10	9	8	14
Livestock farms	5	5	9	5	5	9
North Central ²	7	10	9	5	7	7
\$1,000 to \$9,999	2	4	2	2	3	3
\$10,000 to \$99,999	7	9	8	4	7	7
\$100,000 or more	14	19	17	9	11	12
\$100,000 to \$249,999	10	14	12	7	8	10
\$250,000 or more	16	21	20	10	13	13
Crop farms	9	13	11	7	8	9
Livestock farms	4	7	6	3	5	5
South ³	5	6	7	4	5	6
\$1,000 to \$9,999	3	3	4	3	4	4
\$10,000 to \$99,999	7	7	8	5	6	7
\$100,000 or more	12	15	19	10	13	17
\$100,000 to \$249,999	10	11	16	8	10	15
\$250,000 or more	14	18	23	11	16	19
Crop farms	6	8	10	5	7	8
Livestock farms	5	5	6	4	5	6
West ⁴	6	10	12	6	8	11
\$1,000 to \$9,999	3	5	3	4	5	4
\$10,000 to \$99,999	8	12	11	7	10	6
\$100,000 or more	13	21	29	12	17	26
\$100,000 to \$249,999	9	16	22	9	10	15
\$250,000 or more	17	24	33	15	19	28
Crop farms	7	12	16	8	11	17
Livestock farms	6	8	9	5	6	6
United States ⁵	6	9	10	5	7	8
\$1,000 to \$9,999	3	4	4	3	4	4
\$10,000 to \$99,999	7	8	9	5	7	7
\$100,000 or more	13	18	20	10	12	17
\$100,000 to \$249,999	10	13	15	8	9	13
\$250,000 or more	15	21	24	11	15	20
Crop farms	8	11	12	7	8	10
Livestock farms	5	6	7	4	5	6

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

² Includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

³ Includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

⁴ Includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Excludes Alaska and Hawaii.

Conducting Business on the Internet by Economic Class, Type of Farm – Regions and United States: 2013, 2015, and 2017

[Economic class refers to sales and government payments received during the previous year]

Region	Farms		
	Conduct business with any non-agricultural website		
	2013	2015	2017
	(percent)		
Northeast ¹	39	47	45
\$1,000 to \$9,999	37	49	44
\$10,000 to \$99,999	40	48	44
\$100,000 or more	41	41	50
\$100,000 to \$249,999	30	30	42
\$250,000 or more	52	52	52
Crop farms	43	52	47
Livestock farms	35	43	44
North Central ²	42	44	44
\$1,000 to \$9,999	39	40	40
\$10,000 to \$99,999	37	39	42
\$100,000 or more	51	51	50
\$100,000 to \$249,999	42	45	43
\$250,000 or more	57	57	55
Crop farms	44	46	45
Livestock farms	40	40	41
South ³	36	37	40
\$1,000 to \$9,999	33	35	39
\$10,000 to \$99,999	39	39	40
\$100,000 or more	43	49	49
\$100,000 to \$249,999	40	43	44
\$250,000 or more	46	54	53
Crop farms	35	39	44
Livestock farms	36	36	39
West ⁴	49	50	49
\$1,000 to \$9,999	45	45	38
\$10,000 to \$99,999	52	53	52
\$100,000 or more	56	60	68
\$100,000 to \$249,999	50	50	59
\$250,000 or more	60	69	73
Crop farms	50	54	60
Livestock farms	48	48	41
United States ⁵	40	44	44
\$1,000 to \$9,999	37	39	39
\$10,000 to \$99,999	40	40	42
\$100,000 or more	49	52	53
\$100,000 to \$249,999	42	44	46
\$250,000 or more	55	56	58
Crop farms	43	46	48
Livestock farms	39	39	40

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

² Includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

³ Includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

⁴ Includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Excludes Alaska and Hawaii.

Primary Method of Internet Access by Economic Class – Regions and United States: 2013, 2015, and 2017

[Primary method of Internet access for those operators who have access to the Internet. Economic class refers to sales and government payments received during the previous year]

Region	Farms								
	Dialup			DSL			Cable		
	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)								
Northeast ¹	5	3	3	37	34	31	33	27	37
\$1,000 to \$9,999	6	3	3	36	35	26	34	26	39
\$10,000 to \$99,999	3	4	4	39	33	39	36	28	28
\$100,000 or more	5	2	2	38	34	36	26	27	42
\$100,000 to \$249,999 ...	7	1	1	44	38	27	19	11	44
\$250,000 or more	4	2	1	34	35	42	30	33	32
Crop farms	5	3	3	38	33	32	34	29	40
Livestock farms	5	3	3	36	36	31	32	25	35
North Central ²	6	3	3	33	27	25	11	12	10
\$1,000 to \$9,999	7	4	2	34	23	26	14	15	8
\$10,000 to \$99,999	5	4	3	33	28	25	10	13	11
\$100,000 or more	5	3	3	33	29	25	8	10	9
\$100,000 to \$249,999 ...	5	4	4	34	28	22	9	11	11
\$250,000 or more	5	3	2	33	28	27	8	9	8
Crop farms	5	3	3	32	26	25	12	14	11
Livestock farms	7	4	2	36	29	27	9	10	7
South ³	6	3	3	36	33	29	11	11	15
\$1,000 to \$9,999	6	3	3	33	32	27	12	13	15
\$10,000 to \$99,999	6	3	3	42	34	30	10	9	15
\$100,000 or more	4	3	3	40	33	33	9	11	14
\$100,000 to \$249,999 ...	5	4	4	37	31	33	11	12	14
\$250,000 or more	4	3	3	41	34	32	7	11	13
Crop farms	5	3	3	37	30	28	11	13	16
Livestock farms	6	4	4	36	33	28	11	11	15
West ⁴	4	3	2	35	24	23	14	8	18
\$1,000 to \$9,999	5	4	1	35	23	29	15	8	25
\$10,000 to \$99,999	5	3	2	35	22	18	14	8	17
\$100,000 or more	3	2	2	35	27	17	11	8	14
\$100,000 to \$249,999 ...	4	2	2	35	29	16	11	5	12
\$250,000 or more	2	1	1	35	25	18	11	11	15
Crop farms	3	3	3	35	24	20	15	10	16
Livestock farms	6	4	2	35	24	25	12	6	22
United States ⁵	5	3	2	35	30	29	13	12	15
\$1,000 to \$9,999	6	3	3	34	29	27	15	14	17
\$10,000 to \$99,999	5	4	4	38	31	26	12	11	15
\$100,000 or more	4	3	3	35	30	25	10	11	13
\$100,000 to \$249,999 ...	5	3	3	36	31	24	10	10	15
\$250,000 or more	4	2	2	35	30	27	10	11	12
Crop farms	5	3	3	34	27	25	14	14	15
Livestock farms	6	4	3	36	31	27	12	11	15

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

² Includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

³ Includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

⁴ Includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Excludes Alaska and Hawaii.

Primary Method of Internet Access by Economic Class – Regions and United States: 2013, 2015, and 2017

[Primary method of Internet access for those operators who have access to the Internet. Economic class refers to sales and government payments received during the previous year]

Region	Farms											
	Fiber optic			Mobile			Satellite			Other/unknown		
	2013	2015	2017	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)											
Northeast ¹	(NA)	(NA)	3	(NA)	(NA)	13	8	9	4	6	6	9
\$1,000 to \$9,999	(NA)	(NA)	3	(NA)	(NA)	14	7	8	5	7	6	10
\$10,000 to \$99,999	(NA)	(NA)	4	(NA)	(NA)	14	10	13	2	2	6	9
\$100,000 or more	(NA)	(NA)	5	(NA)	(NA)	8	12	7	2	5	7	5
\$100,000 to \$249,999	(NA)	(NA)	2	(NA)	(NA)	5	15	17	13	2	8	8
\$250,000 or more	(NA)	(NA)	6	(NA)	(NA)	12	10	5	4	7	5	3
Crop farms	(NA)	(NA)	3	(NA)	(NA)	10	7	10	2	8	7	10
Livestock farms	(NA)	(NA)	3	(NA)	(NA)	15	10	8	6	4	6	7
North Central ²	(NA)	(NA)	12	(NA)	(NA)	19	14	16	22	6	7	9
\$1,000 to \$9,999	(NA)	(NA)	10	(NA)	(NA)	20	13	18	23	5	6	11
\$10,000 to \$99,999	(NA)	(NA)	13	(NA)	(NA)	15	15	15	25	6	6	8
\$100,000 or more	(NA)	(NA)	14	(NA)	(NA)	20	15	15	20	6	7	9
\$100,000 to \$249,999	(NA)	(NA)	13	(NA)	(NA)	24	13	14	17	6	6	9
\$250,000 or more	(NA)	(NA)	15	(NA)	(NA)	17	16	16	22	6	8	9
Crop farms	(NA)	(NA)	12	(NA)	(NA)	18	13	15	21	6	7	10
Livestock farms	(NA)	(NA)	12	(NA)	(NA)	19	17	18	24	5	6	9
South ³	(NA)	(NA)	5	(NA)	(NA)	19	19	20	23	6	6	6
\$1,000 to \$9,999	(NA)	(NA)	4	(NA)	(NA)	20	20	20	24	6	6	7
\$10,000 to \$99,999	(NA)	(NA)	6	(NA)	(NA)	18	17	22	22	5	6	6
\$100,000 or more	(NA)	(NA)	6	(NA)	(NA)	19	17	18	18	7	4	7
\$100,000 to \$249,999	(NA)	(NA)	5	(NA)	(NA)	18	17	15	17	8	5	9
\$250,000 or more	(NA)	(NA)	7	(NA)	(NA)	20	18	19	19	6	4	6
Crop farms	(NA)	(NA)	5	(NA)	(NA)	21	17	19	21	6	6	6
Livestock farms	(NA)	(NA)	5	(NA)	(NA)	18	20	20	24	6	6	6
West ⁴	(NA)	(NA)	6	(NA)	(NA)	14	21	28	25	7	7	12
\$1,000 to \$9,999	(NA)	(NA)	3	(NA)	(NA)	14	21	30	19	7	5	9
\$10,000 to \$99,999	(NA)	(NA)	6	(NA)	(NA)	11	18	24	32	7	9	14
\$100,000 or more	(NA)	(NA)	10	(NA)	(NA)	14	23	27	26	6	10	17
\$100,000 to \$249,999	(NA)	(NA)	5	(NA)	(NA)	24	18	27	28	7	10	13
\$250,000 or more	(NA)	(NA)	13	(NA)	(NA)	8	26	28	26	6	10	19
Crop farms	(NA)	(NA)	8	(NA)	(NA)	12	19	26	25	6	9	16
Livestock farms	(NA)	(NA)	5	(NA)	(NA)	15	22	30	22	8	5	9
United States ⁵	(NA)	(NA)	8	(NA)	(NA)	17	17	21	21	6	5	8
\$1,000 to \$9,999	(NA)	(NA)	6	(NA)	(NA)	18	17	20	21	6	5	8
\$10,000 to \$99,999	(NA)	(NA)	8	(NA)	(NA)	15	16	19	24	5	6	8
\$100,000 or more	(NA)	(NA)	11	(NA)	(NA)	18	17	18	20	6	6	10
\$100,000 to \$249,999	(NA)	(NA)	9	(NA)	(NA)	22	15	16	18	6	6	9
\$250,000 or more	(NA)	(NA)	12	(NA)	(NA)	15	17	18	21	6	7	11
Crop farms	(NA)	(NA)	9	(NA)	(NA)	17	14	19	21	6	6	10
Livestock farms	(NA)	(NA)	7	(NA)	(NA)	18	19	21	22	6	5	8

(NA) Not available.

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

² Includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

³ Includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

⁴ Includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

⁵ Excludes Alaska and Hawaii.

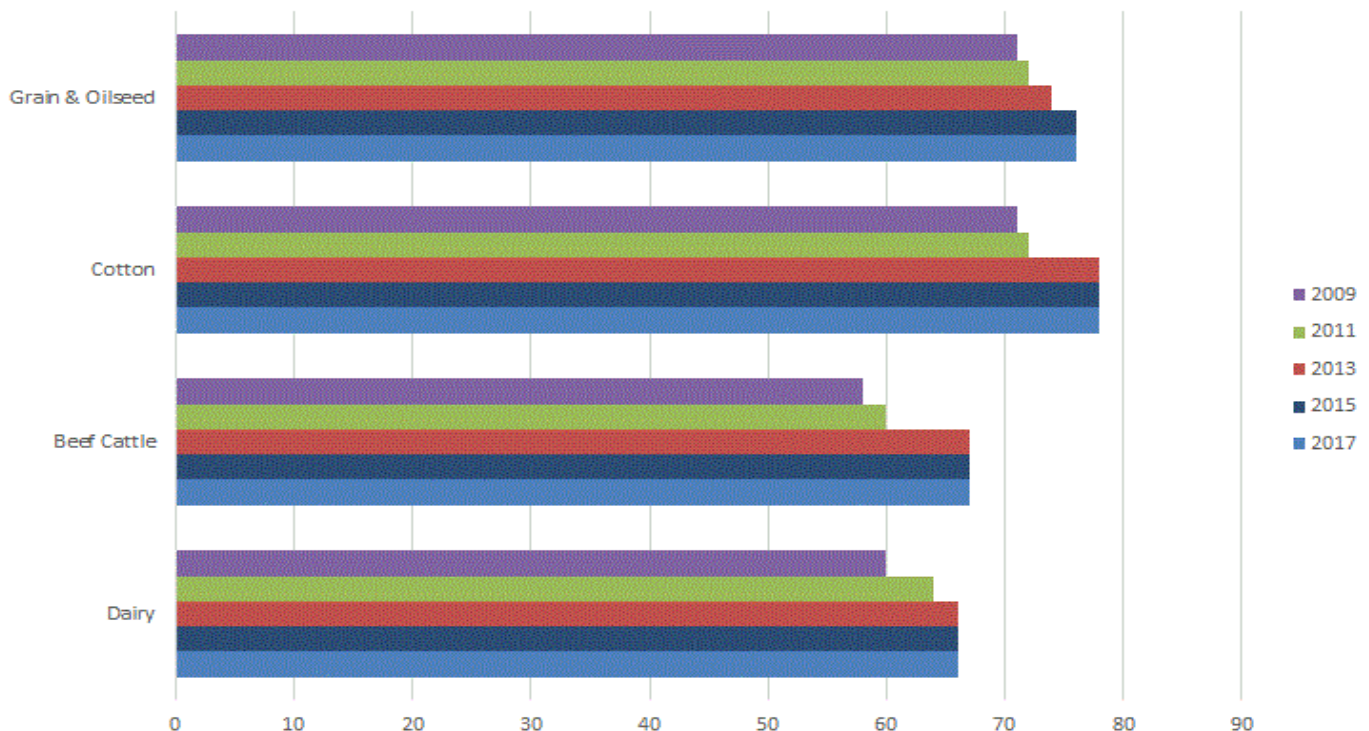
Farm Computer Usage by Economic Class, Type of Farm – United States: 2013, 2015, and 2017

[Economic class refers to sales and government payments received during the previous year]

Type of farm	Farms					
	With computer access			That own or lease computers		
	2013	2015	2017	2013	2015	2017
	(percent)					
Grain and oilseed farms	74	76	76	72	73	75
\$1,000 to \$249,999	67	71	71	65	69	71
\$250,000 or more	85	85	85	83	83	83
Cotton farms	78	78	78	77	77	78
\$1,000 to \$249,999	69	69	71	68	68	71
\$250,000 or more	85	85	85	84	84	84
Beef cattle farms	67	67	67	65	65	65
\$1,000 to \$249,999	66	66	66	63	63	63
\$250,000 or more	81	81	81	80	80	80
Dairy farms	66	66	66	64	64	64
\$1,000 to \$249,999	49	49	49	47	47	47
\$250,000 or more	79	79	79	77	77	78
Crop farms	71	73	73	69	71	72
\$1,000 to \$249,999	68	68	69	66	66	69
\$250,000 or more	85	85	85	84	84	84
Livestock farms	70	73	73	67	69	70
\$1,000 to \$249,999	69	69	69	66	66	66
\$250,000 or more	82	82	82	79	79	79
All farms ¹	70	73	73	68	71	72
\$1,000 to \$249,999	68	68	68	66	67	67
\$250,000 or more	84	85	85	83	83	83

¹ Excludes Alaska and Hawaii.

Computer Access by Type of Farm – United States: 2007-2015



Farm Computer Usage by Economic Class, Type of Farm – United States: 2013, 2015, and 2017

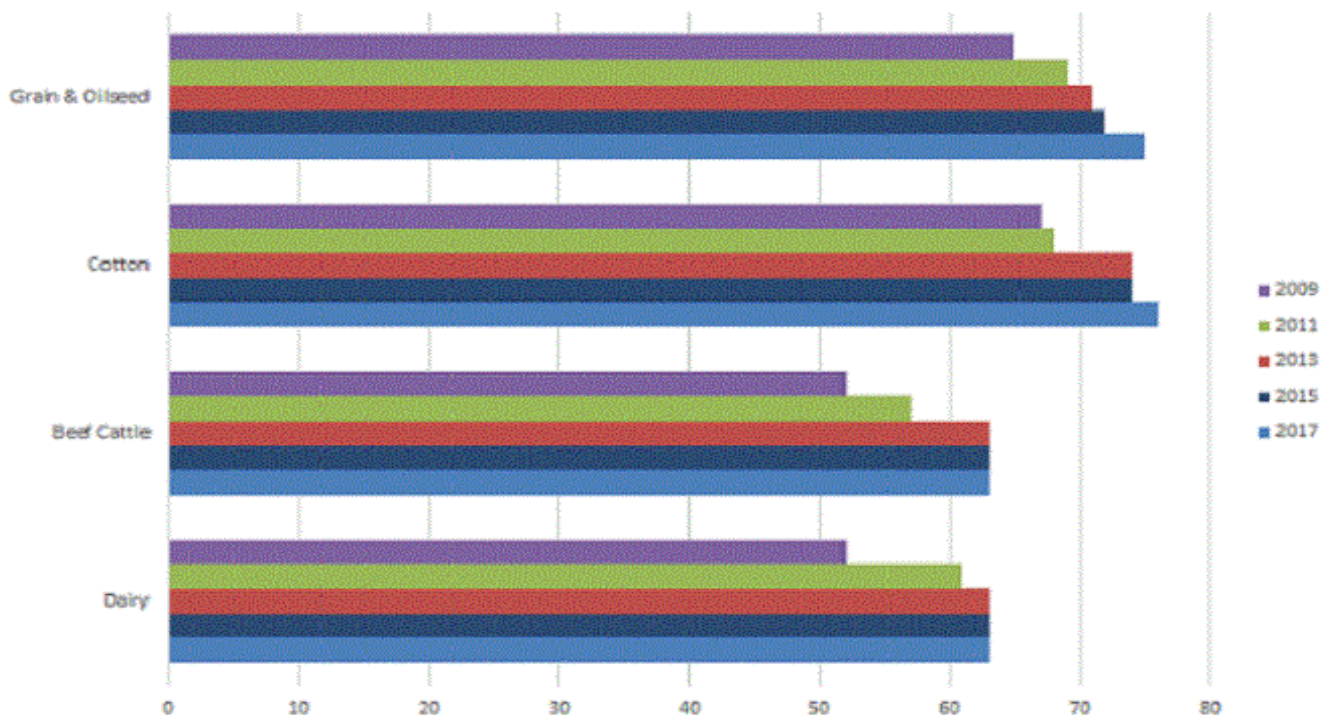
[Economic class refers to sales and government payments received during the previous year]

Type of farm	Farms								
	Using computers for farm business			Using smart phone/ tablet for farm business			With Internet access		
	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)								
Grain and oilseed farms	56	59	62	(NA)	(NA)	52	71	72	75
\$1,000 to \$249,999	47	52	55	(NA)	(NA)	45	64	67	71
\$250,000 or more	71	73	74	(NA)	(NA)	63	82	82	82
Cotton farms	58	58	67	(NA)	(NA)	63	74	74	76
\$1,000 to \$249,999	50	50	59	(NA)	(NA)	51	65	65	67
\$250,000 or more	65	68	74	(NA)	(NA)	72	81	81	83
Beef cattle farms	35	38	41	(NA)	(NA)	33	63	63	63
\$1,000 to \$249,999	34	36	39	(NA)	(NA)	32	62	62	62
\$250,000 or more	57	61	72	(NA)	(NA)	56	78	78	78
Dairy farms	50	50	48	(NA)	(NA)	35	63	63	63
\$1,000 to \$249,999	31	32	23	(NA)	(NA)	19	46	46	46
\$250,000 or more	71	71	70	(NA)	(NA)	50	76	76	76
Crop farms	45	47	52	(NA)	(NA)	44	68	70	71
\$1,000 to \$249,999	38	40	44	(NA)	(NA)	38	65	65	68
\$250,000 or more	73	76	77	(NA)	(NA)	67	83	83	83
Livestock farms	36	39	42	(NA)	(NA)	35	66	68	68
\$1,000 to \$249,999	34	37	40	(NA)	(NA)	33	65	65	65
\$250,000 or more	67	67	71	(NA)	(NA)	55	77	77	77
All farms ¹	40	43	47	(NA)	(NA)	39	67	70	71
\$1,000 to \$249,999	36	38	42	(NA)	(NA)	35	65	66	66
\$250,000 or more	72	73	75	(NA)	(NA)	63	82	82	82

(NA) Not available.

¹ Excludes Alaska and Hawaii.

Internet Access by Type of Farm – United States: 2007-2015



Primary Method of Internet Access by Economic Class, Type of Farm – United States: 2013, 2015, and 2017

[Primary method of Internet access for those operators who have access to the Internet. Economic class refers to sales and government payments received during the previous year]

Type of farm	Farms								
	Dialup			DSL			Cable		
	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)								
Grain and oilseed farms	5	3	3	31	26	26	11	11	12
\$1,000 to \$249,999	5	4	4	31	26	26	12	13	13
\$250,000 or more	4	3	2	32	26	27	9	9	9
Cotton farms	3	4	2	33	38	27	8	8	16
\$1,000 to \$249,999	4	6	2	35	39	20	7	9	22
\$250,000 or more	3	3	2	31	38	32	8	8	11
Beef cattle farms	7	4	4	39	31	29	9	11	12
\$1,000 to \$249,999	7	4	4	40	31	29	9	11	13
\$250,000 or more	6	2	2	36	32	26	6	11	12
Dairy farms	7	4	3	37	35	30	10	14	17
\$1,000 to \$249,999	8	6	5	44	36	31	8	11	17
\$250,000 or more	6	2	2	34	34	29	12	16	17
Crop farms	5	3	3	34	27	25	14	14	15
\$1,000 to \$249,999	5	3	3	34	27	25	15	15	17
\$250,000 or more	4	3	3	34	27	26	10	10	10
Livestock farms	6	4	3	36	31	27	12	11	15
\$1,000 to \$249,999	6	4	4	36	30	27	12	11	15
\$250,000 or more	6	1	2	37	33	26	8	13	15
All farms ¹	5	3	2	35	30	29	13	12	15
\$1,000 to \$249,999	6	3	3	35	29	26	13	13	16
\$250,000 or more	4	2	2	35	30	27	10	11	12

¹ Excludes Alaska and Hawaii.

Primary Method of Internet Access by Economic Class, Type of Farm – United States: 2013, 2015, and 2017

[Primary method of Internet access for those operators who have access to the Internet. Economic class refers to sales and government payments received during the previous year]

Type of farm	Farms											
	Fiber optic			Mobile			Satellite			Other/unknown		
	2013	2015	2017	2013	2015	2017	2013	2015	2017	2013	2015	2017
	(percent)											
Grain and oilseed farms	(NA)	(NA)	12	(NA)	(NA)	18	15	17	21	6	7	8
\$1,000 to \$249,999	(NA)	(NA)	10	(NA)	(NA)	18	14	17	21	6	6	8
\$250,000 or more	(NA)	(NA)	14	(NA)	(NA)	18	17	17	21	6	8	9
Cotton farms	(NA)	(NA)	8	(NA)	(NA)	21	22	23	20	7	2	6
\$1,000 to \$249,999	(NA)	(NA)	8	(NA)	(NA)	23	16	20	20	12	1	5
\$250,000 or more	(NA)	(NA)	8	(NA)	(NA)	20	26	24	20	3	2	7
Beef cattle farms	(NA)	(NA)	7	(NA)	(NA)	17	18	19	23	5	6	8
\$1,000 to \$249,999	(NA)	(NA)	7	(NA)	(NA)	17	18	19	23	5	6	7
\$250,000 or more	(NA)	(NA)	16	(NA)	(NA)	12	26	20	20	4	7	12
Dairy farms	(NA)	(NA)	5	(NA)	(NA)	15	15	16	20	6	4	10
\$1,000 to \$249,999	(NA)	(NA)	4	(NA)	(NA)	21	15	17	16	6	6	6
\$250,000 or more	(NA)	(NA)	6	(NA)	(NA)	12	14	16	24	6	3	10
Crop farms	(NA)	(NA)	9	(NA)	(NA)	17	14	19	21	6	6	10
\$1,000 to \$249,999	(NA)	(NA)	8	(NA)	(NA)	17	14	18	20	6	7	10
\$250,000 or more	(NA)	(NA)	13	(NA)	(NA)	16	17	18	21	6	8	11
Livestock farms	(NA)	(NA)	7	(NA)	(NA)	18	19	21	22	6	5	8
\$1,000 to \$249,999	(NA)	(NA)	6	(NA)	(NA)	18	19	21	23	6	6	7
\$250,000 or more	(NA)	(NA)	11	(NA)	(NA)	14	20	20	21	6	6	11
All farms ¹	(NA)	(NA)	8	(NA)	(NA)	17	17	21	21	6	5	8
\$1,000 to \$249,999	(NA)	(NA)	7	(NA)	(NA)	18	17	21	22	6	6	8
\$250,000 or more	(NA)	(NA)	12	(NA)	(NA)	15	17	18	21	6	7	11

(NA) Not available.

¹ Excludes Alaska and Hawaii.

Farm Numbers

To help equate the percentages published in this report to actual farm counts, a table showing "Number of Farms by States and United States" from the February 2016 NASS publication *Farms, Land in Farms* is included below. A farm is "any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the year."

Number of Farms by States and United States: 2013, 2015, and 2016

[2017 number of farms not available until February 2018]

State	Farms		
	2013	2015	2016
	(number)		
Alabama	43,500	43,200	44,000
Arizona	19,600	19,500	19,600
Arkansas	44,600	43,500	43,000
California	77,900	77,400	76,700
Colorado	35,600	34,200	33,800
Delaware	2,450	2,500	2,500
Florida	47,700	47,300	47,100
Georgia	42,000	41,000	41,800
Idaho	24,500	24,400	24,300
Illinois	75,100	73,400	72,200
Indiana	58,500	57,700	57,500
Iowa	88,500	87,500	87,000
Kansas	61,800	60,400	59,600
Kentucky	76,500	76,400	76,000
Louisiana	27,300	26,900	26,900
Maryland	12,400	12,200	12,300
Michigan	52,000	51,500	51,400
Minnesota	74,400	73,600	73,300
Mississippi	37,300	36,700	36,200
Missouri	99,000	97,100	96,800
Montana	28,100	27,500	27,400
Nebraska	49,600	48,700	48,400
Nevada	4,150	4,200	4,000
New Hampshire ¹	34,950	34,940	34,940
New Jersey	9,100	9,100	9,100
New Mexico	24,800	24,700	24,600
New York	35,500	35,500	35,500
North Carolina	50,000	48,800	48,000
North Dakota	30,800	30,000	29,800
Ohio	75,000	74,400	74,500
Oklahoma	80,100	78,000	78,100
Oregon	35,000	34,600	34,400
Pennsylvania	59,300	57,900	58,200
South Carolina	24,800	24,400	24,500
South Dakota	32,000	31,300	31,000
Tennessee	68,000	67,300	66,600
Texas	248,500	242,000	241,500
Utah	18,200	18,100	18,100
Virginia	46,000	45,000	44,800
Washington	37,000	36,000	35,900
West Virginia	21,400	20,900	20,600
Wisconsin	69,800	68,900	68,700
Wyoming	11,500	11,600	11,600
United States ²	2,094,250	2,060,240	2,052,240

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

² Excludes Alaska and Hawaii.

Survey Methodology

Survey Procedures: The June Agricultural Survey is conducted every year to provide estimates of farm numbers and land in farms, crop acres planted, grains and oilseeds in storage, livestock inventories, and land values. In the odd-numbered years from 1997 through 2017, questions were added to the survey form that asked the operator about access and use of computers. Some states were combined due to their low number of responses. When this occurs, it is footnoted in the tables. Estimates are revised periodically to provide a better foundation for current and future estimates. Revisions are made when sufficient data become available to check the accuracy of the original estimates.

Reliability: The 2017 computer usage estimates are based on responses from over 24,344 agricultural operations and represent all sizes and types of farms. Coefficients of variations (CVs) at the national level in 2017 were 7.5 percent or less.

Information Contacts

Listed below are the commodity statisticians in the Environmental, Economics, and Demographics Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@nass.usda.gov.

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Natasha Bruton – Current Agricultural Industrial Reports.....	(202) 720-7644
Ryan Cowen – Farms, Land in Farms, Census.....	(202) 690-3233
Doug Farmer – Organics, Fruit Chemical Use, Vegetable Chemical Use	(202) 720-7492
Ginger Harris – Census of Agriculture.....	(502) 907-3211
Courtney Charles – Current Agricultural Industrial Reports.....	(202) 690-3226
Dominique Sims – Local Foods, Census.....	(202) 720-5581
Theresa Varner – Farm Labor, Chemical Use	(202) 690-2284
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Stephen Habets – Farm Production Expenditures	(202) 720-9168
Joe Hagedorn – Cash Rents, Grazing Fees.....	(202) 690-3231
Benjamin Johnson – Data Analysis and Estimation Process.....	(202) 690-3225
Michael Mathison – Farm Production Expenditures	(202) 720-3243

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