



NORTHEASTERN REGION TECHNOLOGY USE REPORT

NATIONAL AGRICULTURAL STATISTICS SERVICE

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Farm Technology Use and Ownership Highlights

Nationally, 85 percent of farms reported having access to the internet. In 2023, 32 percent of farms used the internet to purchase agricultural inputs, which was an increase of 3 percent from 2021. Additionally, 23 percent of farms used the internet to market agricultural activities, which was an increase of 2 percent from 2021. Farms which conducted business with non-agricultural websites in 2023 increased by 2 percent to 49 percent.

In 2023, 51 percent of internet connected farms utilized a broadband connection while 75 percent of internet connected farms had access through a cellular data plan. Additionally, 69 percent of farms had a desktop or laptop computer while 82 percent of farms had a smart phone.

Farm Technology Use – Northeastern States and United States: 2021 and 2023

State	Farms					
	Own or use desktop or laptop computer		Own or use smart phone		Own or use a tablet or other portable wireless computer	Own or use some other type of computer
	2021	2023	2021	2023	2023	2023
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Maryland ¹	70	73	62	70	20	1
New Hampshire ²	88	85	70	73	53	(Z)
New Jersey	84	82	72	79	39	1
New York	69	67	69	70	44	1
Pennsylvania	52	51	53	61	24	2
United States ³	67	69	77	82	32	2

(Z) Less than half of the unit shown.

¹ Includes Delaware and Maryland.

² Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

³ Excludes Alaska and Hawaii.

Farm Internet Access – Northeastern States and United States: 2021 and 2023

State	Farms	
	With internet access	
	2021	2023
	(percent)	(percent)
Maryland ¹	80	85
New Hampshire ²	97	98
New Jersey	91	92
New York	81	82
Pennsylvania	64	66
United States ³	82	85

¹ Includes Delaware and Maryland.

² Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

³ Excludes Alaska and Hawaii.

Use of Internet – Northeastern States and United States: 2021 and 2023

[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	
	2021	2023	2021	2023
	(percent)	(percent)	(percent)	(percent)
Maryland ¹	32	46	35	42
New Hampshire ²	45	49	30	36
New Jersey	35	49	19	26
New York	46	41	27	25
Pennsylvania	28	26	18	18
United States ³	29	32	21	23

¹ Includes Delaware and Maryland.

² Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

³ Excludes Alaska and Hawaii.

Internet Access of Reports, Services, and Websites – Northeastern States and United States: 2021 and 2023

[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	
	2021	2023	2021	2023	2021	2023
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Maryland ¹	16	14	30	27	26	23
New Hampshire ²	25	17	31	26	25	24
New Jersey	14	8	26	15	31	21
New York	9	14	25	14	27	17
Pennsylvania	11	9	18	12	17	12
United States ³	13	13	22	20	21	19

¹ Includes Delaware and Maryland.

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Conducting Business on the Internet – Northeastern States and United States: 2021 and 2023

State	Farms					
	Conduct business with any USDA website		Conduct business with any other Federal government website		Conduct business with any non-agricultural website	
	2021	2023	2021	2023	2021	2023
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Maryland ¹	15	14	18	8	43	43
New Hampshire ²	23	12	10	16	53	54
New Jersey	11	7	14	10	51	42
New York	17	11	13	6	51	51
Pennsylvania	12	10	9	7	33	29
United States ³	16	16	12	11	47	49

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³ Excludes Alaska and Hawaii.

Methods of Internet Access – Northeastern States and United States: 2023

[Various methods of internet access for those operators who have access to the Internet. May not add to 100% due to operators with multiple types of internet access]

State	Farms				
	Dialup	Broadband (DSL, cable, fiber optic)	Cellular	Satellite	Other
	2023				
	(percent)	(percent)	(percent)	(percent)	(percent)
Maryland ¹	(Z)	52	71	26	(Z)
New Hampshire ²	3	73	82	21	1
New Jersey	(Z)	76	84	7	(Z)
New York	2	64	63	13	1
Pennsylvania	4	62	57	8	1
United States ³	2	51	75	23	2

(Z) Less than half of the unit shown.

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Precision Agriculture Practices

Beginning in 2021, data were collected for precision agriculture practices with the question: “In the last 12 months, did this farm or ranch use precision agriculture practices to manage crops or livestock? This would include the use of global positioning (GPS) guidance systems, GPS yield monitoring and soil mapping, variable rate input applications, use of drones for scouting fields or monitoring livestock, electronic tagging, precision feeding, robotic milking, etc..” Results are presented in the following table.

Farm Precision Agriculture Practices – Northeastern States and United States: 2023

State	Farms	
	Using precision agriculture practices to manage crops or livestock	
	2021	2023
	(percent)	(percent)
Maryland ¹	27	31
New Hampshire ²	24	24
New Jersey	27	27
New York	26	26
Pennsylvania	20	20
United States ³	25	27

¹ Includes Delaware and Maryland.

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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 2023 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 – Northeastern States and United States: 2021 and 2022

[2023 number of farms not available until February 2024]

State	Farms	
	2021 (number)	2022 (number)
Delaware	2,300	2,300
Maryland	12,400	12,400
New Hampshire ¹	32,300	32,300
New Jersey	9,900	9,900
New York	33,400	33,400
Pennsylvania	52,700	52,700
United States ²	2,003,700	1,994,400

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

² Excludes Alaska and Hawaii.

For the complete "Technology Use (Farm Computer Usage and Ownership)" report, go to:

<https://usda.library.cornell.edu/concern/publications/h128nd689>

The "Technology Use (Farm Computer Usage and Ownership)" report and all other NASS reports are available online at www.nass.usda.gov.

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