



Loss of US Farmland in the 21st Century, Part II: Regional Perspective for Major Land Use Categories from the Census of Agriculture

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This article continues the examination of changes in US farmland during the 21st Century that began with the *farmdoc daily* article of [September 18, 2024](#). Specifically, changes in major farmland use categories are examined by US region between the 1997 and 2022 *Censuses of US Agriculture*. Land in farms declined in all nine regions used in this article. Pastureland led the decline. The decline in pastureland was likely facilitated by the growth in confinement livestock operations, a reminder that farm sector factors beyond crop returns have important impacts on US farmland. Planted cropland declined in all regions except the Northern Plains and Mid-South. Even though the Midwest planted fewer acres, its share of total farmland planted to crops increased as other farmland was converted to planted cropland. More broadly, specialization occurred in the use of US farmland. The Midwest and regions that extensively border it are specializing in the planting of crops, while the Northeast is specializing in woodland.

US Farm Regions

The decision on how to divide the US into regions is never easy and always a matter of the issue being examined and the personal choices of a study's authors. For this study, we decided to use the following regions: Northeast, Mid-Atlantic, Mid-South, Deep South, Midwest, Northern Plains, Southern Plains, Rocky Mountains, and Pacific. The states in each region are listed in Data Note 1, which also contains a map of the Continental US with the regions outlined. Readers may prefer a different breakout, but we think these nine regions reveal important similarities and differences in the US farm landscape of the 21st Century.

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Land in Farms, 2022 Agricultural Census

According to the *Agricultural Census* of 2022, acres in farms by US region ranged from 3.7 million (Northeast) to 257.4 million (Northern Plains) (see Table 1). The Midwest, Southern Plains, and Rocky Mountains regions also had more than 100 million acres of land in farms.

Table 1. Land in Farms (acres), Major Land Use Categories, US Regions, 2022 *Census of Agriculture*

Region	Land in Farms	Planted Cropland	Woodland	Pastureland
Northeast	3,711,664	1,091,323	1,789,508	363,840
Mid-Atlantic	20,322,087	10,309,326	4,948,341	3,206,810
Mid-South	52,324,489	24,105,356	11,458,322	13,766,629
Deep-South	51,061,614	17,564,138	15,029,749	13,503,212
Midwest	160,250,407	115,495,307	14,521,520	16,884,339
Northern Plains	257,427,237	96,005,179	5,522,530	131,257,896
Southern Plains	158,368,888	27,947,929	9,162,903	117,261,160
Rocky Mountains	121,369,511	9,211,334	4,566,334	104,374,162
Pacific	53,341,797	15,660,873	4,937,402	27,829,554

Planted cropland includes cropland that was harvested plus cropland that was abandoned or failed. Woodlands and pastureland overlap since pastureland includes woodlands that are pastured. For the Continental US, 34% of woodlands were pastured in 2022. In 1997, 40% were pastured.

Besides the major land use categories that are the focus of this study, other farmland use categories are (1) land in farmsteads, homes, buildings, livestock facilities, roads, wasteland, etc.; (2) cropland in summer fallow.; and (3) cropland idle or used for cover crops or soil improvement, but not harvested and not pastured or grazed. In 2022, these three land uses accounted for, respectively, 4%, 2%, and 4% of all US land in farms.

Share by Major Land Use Category, 2022 *Agricultural Census*

In 2022, the largest use of farmland was woodland in the Northeast (48%); cropland in the Midwest (72%), Mid-Atlantic (51%), Mid-South (46%), and Deep South (34%); and pastureland in the Rocky Mountains (86%), Southern Plains (74%), Pacific (52%), and Northern Plains (51%) (see Table 2). The largest use is dominant as its share exceeds the next largest share by more than 10 percentage points in every region except the Deep South (29% for woodland vs. 34% for planted cropland).

Table 2. Share of Farmland in Major Land Use Categories, US Regions, 2022 *Census of Agriculture*

Region	Planted Cropland	Woodland	Pastureland
Northeast	29%	48%	10%
Mid-Atlantic	51%	24%	16%
Mid-South	46%	22%	26%
Deep-South	34%	29%	26%
Midwest	72%	9%	11%
Northern Plains	37%	2%	51%
Southern Plains	18%	6%	74%
Rocky Mountains	8%	4%	86%
Pacific	29%	9%	52%

Acre Change by Major Land Use Category from 1997 to 2022

Each region had less farmland in the 2022 *Agricultural Census* than in the 1997 *Agricultural Census* (see Table 3). Pastureland declined the most in all nine regions. Planted cropland declined in seven regions. Exceptions were the Northern Plains and Mid-South. Woodland increased in four regions (Southern and Northern Plains, Rocky Mountains, and Northeast) and declined in five regions (Midwest, Mid-South, Deep-South, Mid-Atlantic, and Pacific).

Table 3. Acre Change in Major Farmland Use Category, US Regions, 2022 vs. 1997 *Census of Agriculture*

Region	Land in Farms	Planted Cropland	Woodland	Pastureland
Northeast	-429,042	-286,824	11,760	-326,667
Mid-Atlantic	-2,623,085	-870,215	-358,425	-1,857,247
Mid-South	-6,624,306	163,600	-2,616,215	-6,177,675
Deep-South	-5,156,646	-1,574,630	-850,656	-5,772,985
Midwest	-14,439,251	-1,968,799	-3,411,911	-10,872,352
Northern Plains	-9,692,269	4,234,045	720,388	-8,314,601
Southern Plains	-9,656,672	-2,091,298	1,490,215	-7,983,302
Rocky Mountains	-16,742,565	-1,055,811	390,424	-16,099,258
Pacific	-8,890,856	-1,537,646	-74,184	-8,135,382

Percent Change in Major Land Use Category from 1997 to 2022

Because acres in farms vary notably by regions, a more complete picture of regional change is gained by examining percent change. Between 1997 and 2022, percent decline in farmland was least in the

Northern Plains (-4%) and highest in the Pacific region (-14%) (see Table 4). Double digit percent declines also occurred in the Rocky Mountains, Mid-South, Mid-Atlantic, and Northeast.

Table 4. Percent Change in Major Farmland Use Category, US Regions, 2022 vs. 1997 *Census of Agriculture*

Region	Land in Farms	Planted Cropland	Woodland	Pastureland
Northeast	-10%	-21%	1%	-47%
Mid-Atlantic	-11%	-8%	-7%	-37%
Mid-South	-11%	1%	-19%	-31%
Deep-South	-9%	-8%	-5%	-30%
Midwest	-8%	-2%	-19%	-39%
Northern Plains	-4%	5%	15%	-6%
Southern Plains	-6%	-7%	19%	-6%
Rocky Mountains	-12%	-10%	9%	-13%
Pacific	-14%	-9%	-1%	-23%

Pastureland had the largest percent decline in all regions except the Southern Plains, where planted cropland declined slightly more (-7% vs. -6%). Pastureland's decline was especially pronounced (30% or more) in regions that include states east of the Mississippi River. Planted cropland declined by at least -7% in all regions except the Northern Plains (+5%), Mid-South (+1%), and Midwest (-2%). In no region did farm woodland have the largest percent decline.

Percentage Point Change in Land Use Shares from 1997 to 2022

Given the percent changes in farmland use in Table 4, it is not surprising that pastureland's share of land in farms declined by the most percentage points in eight of the nine US regions between 1997 and 2022, nor that the percentage point decline in pastureland's share was highest in the regions that include states east of the Mississippi River (see Table 5). On the other hand, woodland's share changed little except in the Northeast, where it rose by five percentage points. Planted cropland's share declined only in the Northeast. It did not change in the Deep South, Southern Plains, and Rocky Mountains. It increased in the Midwest and the regions that extensively border it as well as in the Pacific region. Planted cropland's share increased the most (5 percentage points) in the Mid-South and Midwest.

Table 5. Percentage Point Change in Share of Major Farmland Use Categories, US Regions, 2022 vs. 1997 *Census of Agriculture*

Region	Planted Cropland	Woodland	Pastureland
Northeast	-4%	5%	-7%
Mid-Atlantic	2%	1%	-6%
Mid-South	5%	-2%	-8%
Deep-South	0%	1%	-8%
Midwest	5%	-1%	-5%
Northern Plains	3%	0%	-1%
Southern Plains	0%	1%	0%
Rocky Mountains	0%	1%	-1%
Pacific	2%	1%	-6%

Discussion

For each of the nine US regions used in this article, land in farms has declined in the 21st Century.

Much has been written and said about the Midwest's loss of cropland. However, cropland's share of Midwest farmland and thus its relative importance in the Midwest increased.

Specialization occurred in the use of farmland. The Midwest and regions that have extensive borders with it, along with the Pacific region, specialized in the planting of crops while the Northeast specialized in woodland.

Pastureland declined the most in all nine regions. This decline was likely facilitated by the growth in confinement livestock operations.

The previous point is a reminder that, while public discussions usually focus on the impact of nonfarm factors, such as urbanization, on the US farm landscape; farm sector factors other than crop returns also have important impacts on the use of US farmland.

Data Note 1: States by Region

Northeast: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont

Mid-Atlantic: Delaware, Maryland, New Jersey, New York, Pennsylvania, and West Virginia

Mid-South: Arkansas, Kentucky, North Carolina, Tennessee, and Virginia

Deep-South: Alabama, Florida, Georgia, Louisiana, Mississippi, and South Carolina

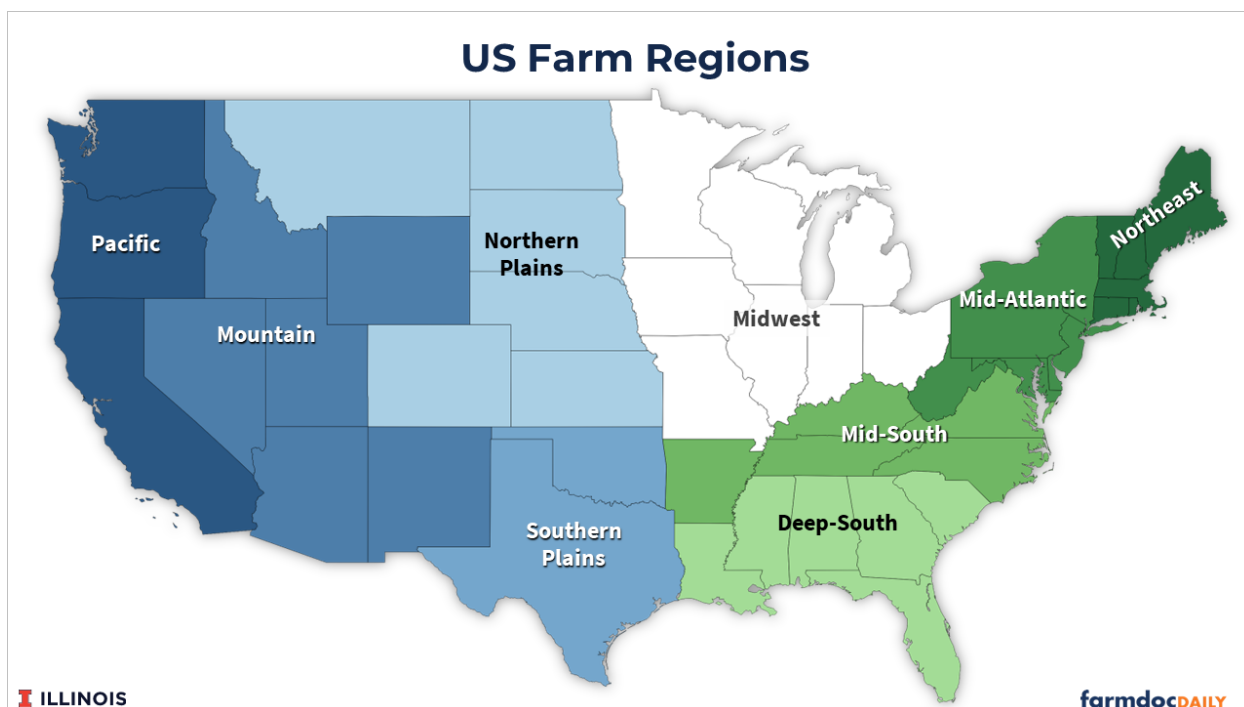
Midwest: Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin

Northern Plains: Colorado, Montana, Kansas, Nebraska, North Dakota, and South Dakota

Southern Plains: Oklahoma and Texas

Mountain: Arizona, Idaho, Nevada, New Mexico, Utah, and Wyoming

Pacific: California, Oregon, and Washington



References and Data Source

US Department of Agriculture, National Agricultural Statistics Service. September 2024. *1997 and 2022 Census of Agriculture*. <https://www.nass.usda.gov/AgCensus/>

Zulauf, C., G. Schnitkey, J. Coppess and N. Paulson. "Loss of US Farmland in the 21st Century: The National Perspective from the Census of Agriculture." *farmdoc daily* (14):169, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, September 18, 2024.