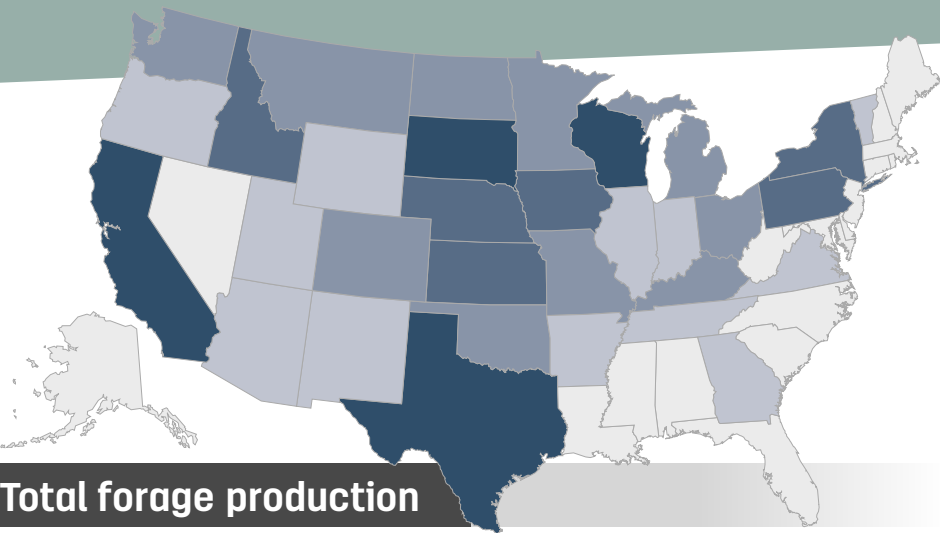
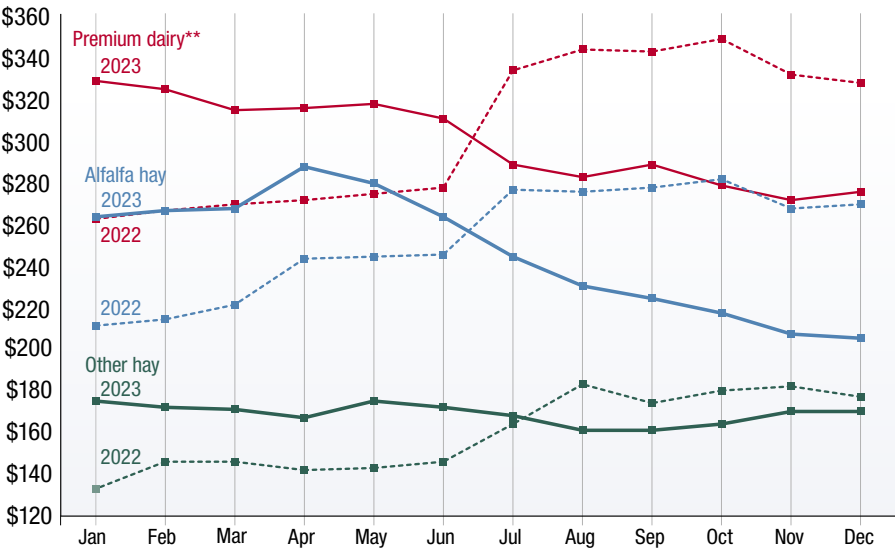


2023 U.S. forage statistics



U.S. monthly average* prices, alfalfa, other and Premium dairy hay



Source: USDA National Agricultural Statistics Service
For market reports updated monthly, visit progressiveforage.com

2023 national forage review



Progressive Forage Editor **Dave Natzke**

Prices

Average monthly prices for alfalfa and premium dairy alfalfa classes of dry hay maintained late 2022 peaks through the first half of 2023 but then softened to end the year (see line graph on back page). Annual averages hid some of the year-to-year volatility in those classes, while monthly average prices for other hay were less volatile.

The 2023 annual average price for dairy-quality alfalfa hay was about \$299 per ton, down about \$4.40 from 2022's average. However, the December average of \$275 was down more than \$50 per ton from January.

Similarly, 2023 U.S. prices for all alfalfa hay* averaged \$246 per ton, down almost \$7 from 2022. December's year-end average was \$82 below the April peak.

Contrasting alfalfa trends, prices for all other hay averaged \$184 per ton in 2023, up about \$24.50 from 2022's average, with month-to-month variation in a narrow range.

Alfalfa hay's price premium over other hay peaked at \$120 per ton in April but fell to just \$35 per ton by December.

Production

Nationally, dry hay production rebounded somewhat in 2023. In most categories, acreage increases were offset by slightly lower yields. Compared to a year earlier:

• **All dry hay:** Production was estimated at 119 million tons, up 6% from 2022. Area harvested was estimated at 52.8 million acres, up 8%; average yield, at 2.25 tons per acre, was down 0.04 ton. Florida and Oklahoma posted record-high production levels, while Indiana, Michigan, Minnesota, New York, Vermont and Wisconsin set record lows.

• **Alfalfa and alfalfa mixtures:** Production in 2023 was estimated at 49.9 million tons, up 2% from the 2022 total. Harvested area, at 15.6 million acres, was up 3%; average yield was estimated at 3.19 tons per acre, down 0.03 ton. A record-high yield was estimated in Idaho.

• **All other hay:** 2023 production totaled 68.9

million tons, up 9% from 2022. Harvested area, at 37.2 million acres, was up 11%; average yield was estimated at 1.85 tons per acre, down 0.02 ton. Record-high productions were estimated in Arizona, Florida and Oklahoma, while record-low productions were estimated in Iowa, Minnesota and Wisconsin.

• **Total forage:** The USDA's total forage estimation program covers 17 states. Haylage and greenchop are converted to 13% moisture and combined with dry hay production to derive total forage estimates.

With dry hay, the 17-state total for all forage production was 73.6 million tons, down 1% from 2022. About 37.9 million tons were alfalfa and alfalfa mixtures, down 3%.

All haylage and greenchop forages were harvested from 3.45 million acres in 2023, down about 13%. That was only partially offset by higher average yields, with total production at 25.5 million tons, down 10%.

• **Corn silage:** Production was estimated at 130 million tons for 2023, up 1% from 2022. Area harvested for silage was estimated at 6.47 million acres, down 6%; average yield was estimated at 20.1 tons per acre, up 1.4 tons.

• **Sorghum silage:** Production was estimated at 4.98 million tons, down 12% from 2022. Area harvested for silage was estimated at 384,000 acres, down 27% from the previous year; yield averaged 13 tons per acre, up 2.2 tons per acre.

• **New seedings of alfalfa and alfalfa mixtures:** Acreage newly seeded to alfalfa increased for a second consecutive year. In 2023, acreage was estimated at 1.74 million acres, up 4% from 2022 but still the third-lowest total in 25 years. About 1.29 million acres (73%) of new seeding was concentrated in 22 of 24 major dairy states, but new seeding in those states was down about 9,000 acres compared to a year earlier.

• **Hay stocks:** Heading into the 2023 growing season, all dry hay stocks stored on U.S. farms on

May 1, 2023, totaled about 14.33 million tons, down nearly 15% from a year earlier. With higher production and lower use, hay inventories as of Dec. 1, 2023, totaled about 76.72 million tons, up 7% from the seven-decade low in Dec. 1, 2022. Among major dairy states, December 2023 hay inventories were estimated about 1.5% lower than a year earlier, with record lows in Minnesota, New York, Ohio and Wisconsin.

Exports

Despite easing port and other logistical problems, 2023 hay export volumes declined from the year before.

At 2.18 million metric tons (MT), alfalfa hay exports fell to a nine-year low. Much of the decline can be attributed to a midyear softening of sales to China, which was the destination for about 41% of all U.S. alfalfa hay exports during the year. Compared to a year earlier, exports of alfalfa meal and alfalfa cubes were mostly lower.

Exports of other hay continued to soften, with the annual total of just under 1 million MT, the lowest volume in at least 17 years. Japan maintained its spot as the top market, taking about 53% of other hay shipments during the year, followed by South Korea at 26%.

Weather and drought

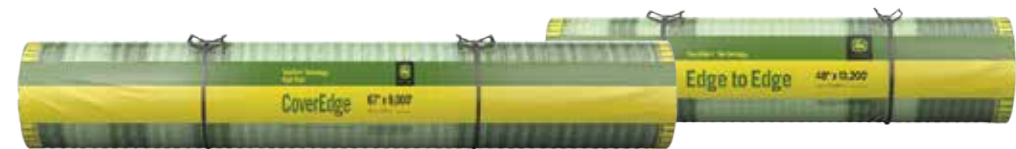
After 126 weeks (Sept. 29, 2020 – Feb. 21, 2023), drought coverage across the contiguous U.S. finally fell below 40%. For hay growers, 2023 U.S. average moisture conditions improved, primarily in the West and northern Plains.

USDA Drought Monitor maps estimated about 56% of major alfalfa-producing areas were under drought conditions to start the year, but that fell to 25% by June, ending the year at just 21%. U.S. hay-producing acreage considered under drought conditions fluctuated between a high of 43% in January to a low of 25% in May-June, ending the year at about 34%.

* Monthly average prices calculated by the USDA are across all hay qualities. Among major hay-producing states, the range of monthly prices can vary by \$100 per ton or more.

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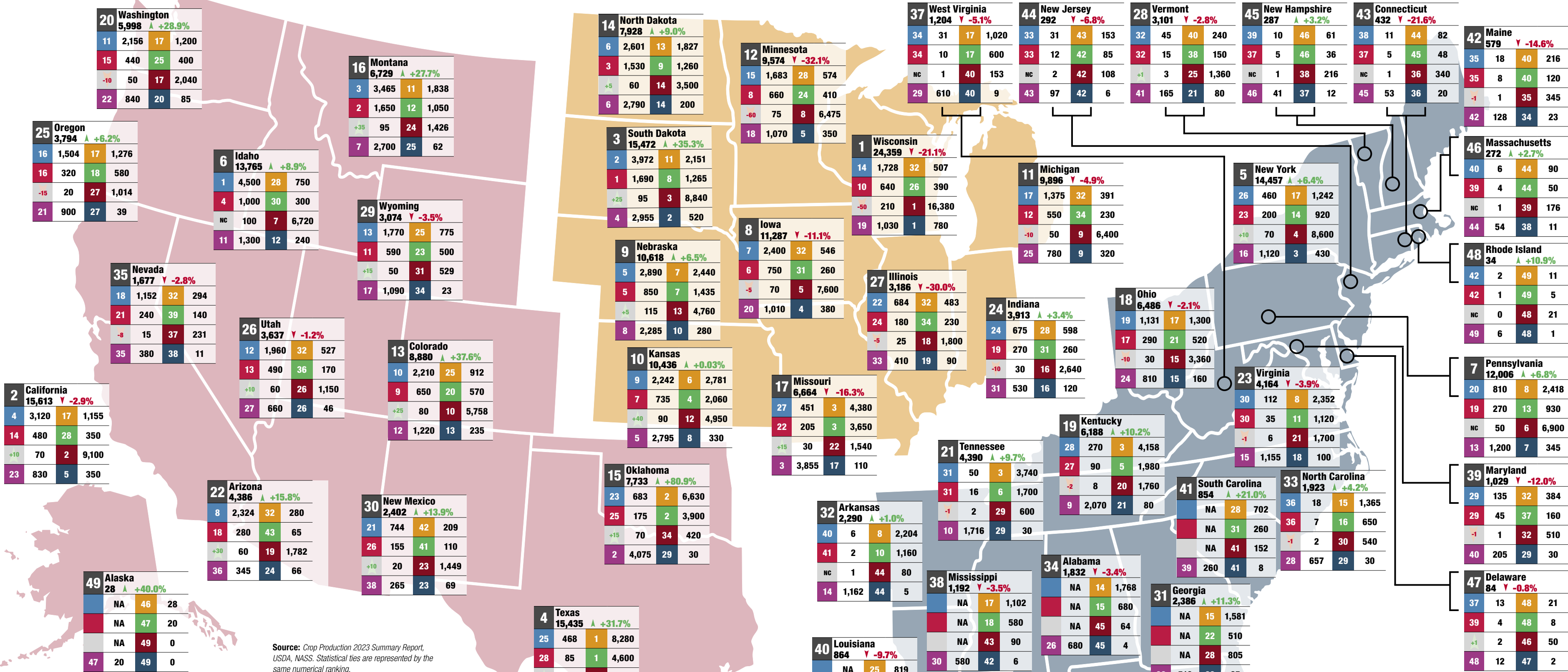
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2023 U.S. forage statistics



Source: Crop Production 2023 Summary Report, USDA, NASS. Statistical ties are represented by the same numerical ranking.

Legend

- State ranking-total forage production
- All forage production (in thousands of tons)
- State ranking-alfalfa yield
- Alfalfa yield (in thousands of tons)
- State ranking-alfalfa acres
- Alfalfa acres (in thousands of acres)
- Change in acres of new alfalfa plantings (in thousands of acres)
- Alfalfa new plantings (in thousands of acres)
- State ranking-total hay acres
- Total hay acres (in thousands of acres)

South Dakota

3	15,472	+35.3%	
2	3,972	11	2,151
1	1,690	8	1,265
+25	95	3	8,840
4	2,955	2	520

- State ranking-other hay yield
- Other hay yield (in thousands of tons)
- State ranking-other hay acres
- Other hay acres (in thousands of acres)
- State ranking-corn silage yield
- Corn silage yield (in thousands of tons)
- State ranking-corn silage acres
- Corn silage acres (in thousands of acres)



Total U.S. forage acres in thousands of acres				
Other hay	37,187	+3,629		
Alfalfa	15,634	+481		
Silage	6,471	-380		
Greenchop	3,449	-533		
Sorghum	384	-141		
Combined total 63,125				



Total U.S. tons harvested in thousands of tons				
Silage	20.1 tons/acre	129,994	+1.3%	
Other hay	1.9 tons/acre	68,796	+9.6%	
Alfalfa	3.2 tons/acre	49,872	+2.2%	
Greenchop	7.4 tons/acre	25,536	-9.3%	
Sorghum	13.0 tons/acre	4,981	-12.0%	
Combined total 279,179				

United States			
279,179	+2.0%		
49,872	+2.2%	68,796	+9.6%
15,634	+3.2%	37,187	+11.0%
1,743	+68	129,994	+1.3%
52,821	+6.5%	6,471	-5.5%