<u>USDA</u> Download full tidy data from this report (xlsx, csv, json, zip) ISSN: [###-####] Released [MM-DD-YYYY] by the Martinez Agricultural Statistics Service (MASS), Agricultural Statistics Board, Paulo G. Martinez Department of Agriculture (PGMDA). Milk Production Full View Overview Dictionary & Footnotes Tables - Wide Tidy Data - Long (Mo. Nat. 19-20) [Month] Milk Production [up/down] [#.#] Percent. Milk production in the United States during [MONTH] totaled [##.# order of magnitude] pounds, [up/down] [#.#] percent from [MONTH] [LAST YEAR]. **Production per cow** in the United States averaged [#,###] pounds for [MONTH], [##] pounds [above/below] [MONTH LAST YEAR]. The number of milk cows on farms in the United States was [#,## order of magnitude] head, [##,###] head more than [MONTH LAST YEAR], but [unchanged from/above/below] [LAST MONTH] Monthly Milk Production Lbs - National 19.5B 2019 19B 2018 18.5B 2015 2013 18B 2012 2011 17.5B ---- 2009 2008 17B ----- 2007 FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC Monthly Milk Cows - National **-** 2020 9.38M 2019 2018 9.36M 2015 2014 2013 2012 9.34M 2009 9.32M ____ 2008 2007 FEB MAR APR MAY JUN JUL AUG SEP OCT Monthly Milk Per Cow - National **-** 2020 2050 **2**019 **2018** 2000 ---- 2016 1950 - 2014 2013 2012 1900 1850 2009 **--** 2008 2007 FEB MAY JUN JUL AUG SEP OCT NOV DEC USDA 🎉 Download full tidy data from this report (xlsx, csv, json, zip) ISSN: [###-###] Released [MM-DD-YYYY] by the Martinez Agricultural Statistics Service (MASS), Agricultural Statistics Board, Paulo G. Martinez Department of Agriculture (PGMDA). **Milk Production Full View Data-Dictionary & Footnotes** A data-dictionary describes the attributes (aka variables) that appear in a table. **Data Dictionary**

Overview Dictionary & Footnotes Tables - Wide Tidy Data - Long (Mo. Nat. 19-20) **Description Attribute** Units Aggregation **Data Item** Commodity and Footnotes Calendar year Calendar Year of survey Year year estimate Calendar month Calendar Period Period of survey month estimate Unclear, presumably CATTLE, Heads of milkproducing sum of state COWS, MILK cattle. Includes INVENTORY, Heads of counts but the Milk Cows CATTLE dry cows. cattle "Data Item" AVG, Excludes heifers name icludes MEASURED IN "AVG" which is HEAD not yet fresh confusing Total pounds of MILK -Milk milk produced. PRODUCTION, Excludes milk MILK Production Lbs Total MEASURED IN (lbs) sucked by LB calves. Total pounds of milk produced divided by MILK -Lbs per Milk Per number of milk PRODUCTION, MILK cattle-Average Cow producing MEASURED IN head cows. Excludes LB / HEAD milk sucked by calves. Calendar month Calendar Month Month as integer month Calendar cuarter as Calendar integer (1 Quarter corresponds to quarter Jan. through Mar, etc.)

Milk Production **Full View** Overview Dictionary & Footnotes Tables - Wide Tidy Data - Long (Mo. Nat. 19-20) Values in tables may not add due to rounding. Blank cells indicate estimation period has not yet begin Milk Cows and Production by Quarter - United States: 2019-2020 Analyze online ϕ 2020 2019 2020 Prod 2019 Milk 2020 Milk 2019 2020 Milk Milk (lbs) Quarter Milk Milk **Production Production** Per Per Perc (lbs) Cows Cows (lbs) Char Cow Cow from 8,805,000 8,834,000 2,010 2,033 17,699,000,000 17,956,000,000 0.015 8,803,000 8,848,000 1,833 1,925 16,132,000,000 17,031,000,000 0.056 2 8,789,000 2,038 17,916,000,000 18,455,000,000 8,788,000 1,996 17,544,000,000 17,778,000,000 Avg Sum Sum Mill 2019 Pro 2020 Sum 2019 Milk Sum 2020 Milk Sum 2019 Sum 2020 **Production** Milk Milk Production (lbs Agg Milk Cows Milk Cows Per Per (lbs) Per Cow Cha Cow fror Annual 35,185,000 17,682,000 7,877 3,958 69,291,000,000 71,220,000,000 0.04

Milk Cows and Production by Month - States: 2019-2020

2020

Milk

Cows

2019

Cows

2019

Cows

Month Milk

USDA 🎉

2020

Milk

Cows

Month Milk

2019 2020

Milk

Per

Cow

Milk

Per

Cow

2019 Milk

(lbs)

Production

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8,805,000 8,834,000 2,010 2,033 17,699,000,000 17,956,000,000 0.015 2 8,803,000 8,848,000 1,833 1,925 16,132,000,000 17,031,000,000 0.056 3 8,789,000 8,857,000 2,038 2,084 17,916,000,000 18,455,000,000 0.03 4 8,788,000 8,852,000 1,996 2,008 17,544,000,000 17,778,000,000 0.013 5 8,790,000 8,836,000 2,063 2,043 18,137,000,000 18,049,000,000 -0.005 6 8,784,000 8,827,000 1,974 1,981 17,342,000,000 17,486,000,000 0.008 7 8,785,000 8,829,000 1,997 2,016 17,542,000,000 17,800,000,000 0.015 8 8,789,000 1,984 17,439,000,000 1,908 9 8,805,000 16,796,000,000 10 8,819,000 1,962 17,299,000,000 11 8,817,000 1,894 16,699,000,000 1,987 12 8,816,000 17,517,000,000 Sum Sum 2020 Sum 2019 Milk 2019 Sun Sum 2019 Sum 2020 Sum **Annual** Milk **Production** Pro Milk Month Milk Cows Milk Cows Per Per (lbs) (lbs) Cow Cow 105,590,000 61,883,000 23,646 14,090 208,062,000,000 124, Aggregate 78 Estimated Milk Cows and Production by Month - United States: 2019-2020

Analyze online ϕ

Analyze online 4

2020 Milk

(lbs)

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(lbs)

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from 2 8.805.000 8.834.000 2.010 2.033 17.699.000.000 17.956.000.000 0.015

2019 Milk

(lbs)

Production

2019 2020

Milk

Per

Cow

Milk

Per

Cow

Aggrega	ate 78	105,590,00	,10 01,8	383,000	23,646	14,090	208,062,000,000	0 124
			00 01 0		00.040	1 1 000	000 000 000 000	
Annual	Sum Month	Sum 2019 Milk Cows		m 2020 k Cows	Sum 2019 Milk Per Cow	Sum 2020 Milk Per Cow	Sum 2019 Milk Production (lbs)	Sur Pro (Ibs
12	0,610,000		1,987		17,517,0	00,000		
11 12	8,817,000 8,816,000			1,894		00,000		
10	8,819,000		1,962		17,299,0	00,000		
9	8,805,000		1,908		16,796,0	00,000		
8	8,789,000		1,984		17,439,0	00,000		
7	8,785,000	8,829,000	1,997	2,016	17,542,0	00,000	17,800,000,000	0.015
6	8,784,000	8,827,000	1,974	1,981	17,342,0	00,000	17,486,000,000	0.008
5	8,790,000	8,836,000	2,063	2,043	18,137,0		18,049,000,000	-0.00
4	8,788,000	8,852,000	1,996	2,008	17,544,0		17,778,000,000	0.013
3	8,789,000	8,857,000	2,038	2,084	17,916,0		18,455,000,000	0.03
	8,803,000	8,848,000	1,833	1,925	16,132,0	00 000	17,031,000,000	0.056

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Monthly National Tidy Data - Long Format

Long format makes it very easy to automatically generate correlation analyses (scatter plots showing change of one variable as a function of another)

Tidy Data - Long Format

Analyze online ϕ Milk Cows Milk Production Lbs Milk Per Cow **Period** Year Month 18,860,000,000 9,361,000 2,015 JAN 2020 1 9,375,000 17,890,000,000 1,908 **FEB** 2020 2 9,385,000 19,380,000,000 2,065 MAR 2020 3 9,375,000 18,675,000,000 1,992 **APR** 2020 4 9,360,000 18,955,000,000 2,025 MAY 2020 9,350,000 18,367,000,000 1,964 JUN 2020 6 9,360,000 2,002 JUL 2020 18,735,000,000 7 9,360,000 18,600,000,000 1,987 **AUG** 2020 8 1,990 9,354,000 18,612,000,000 JAN 2019 9,352,000 16,966,000,000 1,814 **FEB** 2019 2 9,333,000 18,845,000,000 2,019 MAR 3 2019 9,332,000 18,433,000,000 1,975 **APR** 2019 4 9,333,000 19,058,000,000 2,042 MAY 2019 5 9,327,000 18,225,000,000 1,954 JUN 2019 6 9,315,000 18,375,000,000 1,973 JUL 2019 7 9,318,000 18,267,000,000 1,960 AUG 2019 8 9,333,000 17,595,000,000 1,885 SEP 2019 9 9,347,000 18,135,000,000 1,940 OCT 2019 10 9,345,000 17,506,000,000 NOV 2019 1,873 11 9,343,000 18,365,000,000 1,966 DEC 2019 12