

## **Dairy** Excellence Pennsylvania Dairy Scorecard, Center for Dairy Excellence

## May-20

		Α	В	С	D	Е	F	G	Н		K	L	M	N
	Month	All Milk Cows Monthly Avg	PA Monthly Production million lbs	% U.S. Milk Produced in PA	Calculated Rolling 12 month production Billion lbs	Calculated Milk per Cow per Day 1/ pounds	Wholesale Milk Price dollars	PA Daily Feed Cost CWT **	Income over Feed Cost / cow @ 75 Lbs.Milk	75 lb Milk Margin (IOFC @ 100 Lbs. Milk) dollars	Rolling Milk average	Total Componets	%herds with component over 1650	%Herds with 80+ lbs per cow per day
1	Cg Lst Yr	-2.0%	2.2%	0.9%	-2.6%	4.3%	-16.4%	5.5%	-32.1%	-32.1%	0.8%	1.6%	15.8%	43.2%
2	Cg Lst Mn	0.0%	-2.6%	0.9%	0.2%	0.6%	-19.0%	-2.3%	-32.3%	-32.3%	0.4%	0.6%	3.6%	1.7%
3	Apr-20	485,000	883	4.7%	10.153	69.8	\$15.30	\$7.48	\$5.71	\$7.61	22,204	1,548	38.1%	37.7%
4	Mar-20	485,000	907	4.7%	10.134	69.3	\$18.90	\$7.66	\$8.43	\$11.24	22,107	1,540	36.8%	37.1%
5	Feb-20	483,000	833	4.7%	10.116	68.4	\$19.40	\$7.20	\$9.15	\$12.20	22,029	1,536	35.5%	34.7%
6	Jan-20	480,000	866	4.6%	10.086	66.9	\$20.20	\$7.10	\$9.83	\$13.10	21,907	1,528	34.8%	30.3%
7	Dec-19	483,000	843	4.6%	10.093	64.7	\$20.90	\$7.12	\$10.34	\$13.78	21,877	1,523	34.0%	23.4%
8	Nov-19	485,000	808	4.6%	10.106	63.8	\$21.00	\$7.24	\$10.32	\$13.76	21,859	1,522	33.5%	19.1%
9	Oct-19	485,000	827	4.6%	10.117	63.2	\$20.10	\$7.01	\$9.81	\$13.09	21,778	1,515	32.2%	16.9%
10	Sep-19	485,000	800	4.5%	10.147	63.2	\$19.60	\$6.43	\$9.88	\$13.17	21,781	1,511	31.9%	17.3%
11	Aug-19	485,000	829	4.5%	10.179	63.4	\$19.40	\$6.67	\$9.55	\$12.73	21,766	1,509	31.1%	15.8%
12	Jul-19	485,000	832	4.5%	10.232	63.6	\$20.05	\$7.62	\$8.61	\$11.48	21,804	1,511	30.7%	15.2%
13	Jun-19	490,000	838	4.6%	10.300	65.5	\$18.80	\$7.28	\$8.64	\$11.52	21,880	1,515	31.4%	20.7%
14	May-19	493,000	887	4.7%	10.358	66.7	\$18.60	\$7.06	\$8.65	\$11.54	21,940	1,517	32.7%	24.6%
15	Apr-19	495,000	864	4.7%	10.425	66.9	\$18.30	\$7.09	\$8.41	\$11.21	22,026	1,524	32.9%	26.4%
16	Mar-19	495,000	889	4.7%	10.491	66.6	\$18.63	\$7.11	\$8.55	\$11.39	22,116	1,530	33.4%	24.8%
17	Feb-19	500,000	803	4.7%	10.561	65.9	\$17.90	\$6.56	\$8.51	\$11.34	22,142	1,530	33.5%	23.3%
18	Jan-19	500,000	873	4.7%	10.614	64.7	\$17.70	\$7.33	\$7.78	\$10.37	22,322	1,540	34.7%	21.4%
19	Dec-18	505,000	856	4.7%	10.665	62.8	\$17.60	\$7.14	\$7.84	\$10.46	22,240	1,534	33.4%	17.0%
20	Nov-18	513,000	819	4.7%	10.720	61.2	\$18.00	\$6.71	\$8.47	\$11.29	22,394	1,543	35.3%	16.2%
21	Oct-18	516,000	857	4.8%	10.773	61.6	\$18.10	\$6.42	\$8.76	\$11.68	22,328	1,538	35.1%	15.1%
22	Sep-18	517,000	832	4.8%	10.809	61.7	\$17.10	\$6.09	\$8.26	\$11.01	22,360	1,541	35.5%	15.1%
23	Aug-18	519,000	882	4.8%	10.846	63.0	\$16.40	\$6.36	\$7.53	\$10.04	22,454	1,551	36.6%	18.1%
24	Jul-18	520,000	900	4.9%	10.870	64.2	\$16.20	\$5.93	\$7.70	\$10.27	22,340	1,546	36.3%	20.3%
25	Jun-18	521,000	896	4.9%	10.878	65.9	\$17.00	\$5.91 \$5.00	\$8.32	\$11.09	22,375	1,549	36.6%	25.1%
26	May-18	523,000	954	5.0%	10.888	67.6	\$16.70	\$5.99	\$8.04	\$10.71	22,405	1,552	36.9%	32.6%
27	Apr-18	524,000	930	5.1%	10.908	68.0	\$16.40	\$6.15	\$7.69	\$10.25	22,382	1,552	37.1%	33.1%
28	Apr-17	525,000	948	5.2%	10.883	69.2	\$17.60	\$6.28	\$8.49	\$11.32	22,411	1,546	34.8%	33.5%
29	Apr-16	530,000	925	5.2%	10.821	66.9	\$16.20	\$6.28	\$7.44	\$9.92	22,292	1,525	29.6%	30.9%

Source: USDA, NASS www.nass.usda.gov

Source: Penn State



Published Monthly By:

## **The Center for Dairy Excellence**

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<sup>\*1/</sup> Milk/cow/day calculation uses an approximation that 87% of all cows are in milk while the rest are dry.

<sup>\*\*</sup> PA Daily Feed Costs = Corn, Soybean, and Hay at 75 lbs/milk production

<sup>\*\*\*</sup> IOFC (\$/cow/day) = Pmilk/100\*75 - Daily Feed Cost for 75 lbs of milk

<sup>\*\*\*\*</sup> Milk Margin (\$/cwt) = Pmilk – (Daily Feed Cost for 65 lbs of milk)/65\*100



## Pennsylvania Dairy Scorecard, PA Center for Dairy Excellence

May	/-20
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Month   Average   Month   Month   Average   Month		Ο	Р	Ω	R	S	Т	U	V	W	X	Υ	7	AA	AB
Z     Cg Lst Mn     0.1%     -0.4%     1.8%     -8.9%     0.4%     1.9%     -3.6%     -0.7%     -0.1%     -4.0%     -0.8%     -0.3%     -0.5%       3     Apr-20     181,480     66.5%     175     70.4%     22.5%     38.2%     23.3%     84     45.1%     25.1     44.2%     37.3%     44.6%       5     Feb-20     177,950     68.4%     173     73.9%     22.4%     38.4%     24.4%     86     44.0%     25.1     44.7%     37.3%     44.8%       6     Jan-20     166.55%     173     72.9%     21.3%     38.9%     21.2%     85     44.4%     25.1     44.7%     37.7%     44.2%       7     Dec-19     181,230     67.3%     176     66.8%     17.8%     31.9%     13.1%     86     43.8%     25.0     47.1%     37.7%     44.2%       8     Nov-19     192,190     63.7%     179     64.3%     16.6%     35.4%     11.0%     86     41.7%     25.0		Month	Actual	less than 200,000	Average Days in	% Herds DIM less	Current Pregnancy	Pregnancy	Pregnancy Rate > or =	Average Days to 1st	with days to 1st service	at 1st	age at 1st calving 21-	Average % left	% of herds with % left
3	1	Cg Lst Yr	-3.1%	2.8%	-0.2%	-0.2%	3.5%	4.9%	5.7%	-1.0%	2.7%	0.7%	-11.4%	-5.6%	17.6%
4     Mar-20     181,300     67.2%     175     70.4%     22.5%     38.5%     24.4%     85     45.2%     26.2     44.5%     37.3%     44.8%       5     Feb-20     177,950     68.4%     173     73.9%     22.4%     38.8%     24.4%     86     44.0%     25.1     44.7%     37.7%     45.5%       7     Dec-19     181,230     67.3%     174     71.3%     19.8%     38.2%     17.3%     85     44.4%     25.1     45.7%     37.7%     44.2%       8     Nov-19     192,190     63.7%     176     66.8%     17.8%     31.9%     13.1%     86     43.8%     25.0     47.3%     38.0%     44.0%       9     Oct-19     213,230     57.7%     176     66.8%     18.6%     13.5%     11.1%     86     41.8%     25.0     47.3%     38.2%     41.3%       10     Sep-19     220.920     53.3%     182     58.8%     18.0%     35.8%     11.0%     86     41.8%	2	Cg Lst Mn	0.1%	-0.4%	1.8%	-8.9%	0.4%	1.9%	-3.6%	-0.7%	-0.1%	-4.0%	-0.8%	-0.3%	-0.5%
5     Feb-20     177,950     68.4%     173     73.9%     22.4%     38.4%     24.4%     86     44.0%     25.1     44.7%     37.1%     45.5%       6     Jan-20     186,350     65.5%     173     72.9%     21.3%     39.9%     21.2%     85     44.4%     25.1     45.7%     37.7%     44.2%       7     Dec-19     181,230     67.3%     174     71.3%     19.8%     38.2%     17.3%     85     44.1%     25.0     47.1%     37.7%     44.2%       8     Nov-19     192,190     63.7%     176     66.8%     17.8%     31.9%     13.1%     86     43.8%     25.0     47.3%     38.0%     43.4%       9     Oct-19     220,292     53.3%     182     18.0%     35.4%     11.0%     86     41.7%     25.0     49.3%     38.2%     41.7%       10     Sep-19     220,292     53.3%     182     19.7%     36.4%     16.9%     86     41.7%     25.0     49.3%	3	Apr-20	181,480	66.9%	178	64.2%	22.6%	39.2%	23.5%	84	45.1%	25.1	44.2%	37.2%	44.6%
6 Jan-20 186,350 65.5% 173 72.9% 21.3% 38.9% 21.2% 85 44.4% 25.1 45.7% 37.7% 44.2% 7 Dec-19 181,230 67.3% 174 71.3% 19.8% 38.2% 17.3% 85 44.1% 25.0 47.1% 37.6% 44.0% 9 Oct-19 213,230 57.7% 176 66.8% 17.8% 31.9% 131.1% 86 43.8% 25.0 47.3% 38.0% 43.4% 9 Oct-19 213,230 57.7% 179 64.3% 16.6% 35.4% 11.0% 86 41.7% 25.0 48.3% 38.2% 41.3% 10 Sep-19 220,920 53.3% 182 58.8% 18.0% 35.8% 13.7% 86 41.8% 25.0 49.3% 38.3% 41.7% 12 Jul-19 233,000 50.8% 187 51.4% 20.7% 36.4% 16.9% 86 42.4% 24.9 50.4% 38.6% 39.7% 13 Jun-19 233,910 50.8% 187 51.4% 20.7% 36.8% 19.3% 86 42.4% 24.9 50.4% 38.6% 39.7% 14 May-19 192,280 53.6% 183 56.0% 21.6% 37.4% 22.6% 86 42.6% 25.0 49.8% 39.2% 39.6% 15 April 19.2% 39.6% 187 51.4% 37.1% 21.5% 85 44.4% 25.0 49.8% 39.2% 39.6% 16 Mar-19 187,170 65.7% 174 71.0% 22.2% 37.2% 23.3% 85 44.4% 25.0 49.8% 39.4% 37.5% 17 Feb-19 196,300 62.3% 172 73.9% 21.8% 37.4% 22.2% 85 44.0% 25.0 49.8% 39.4% 37.5% 19 Dec-18 209,930 57.1% 172 73.9% 21.3% 36.5% 21.7% 85 44.0% 25.0 50.1% 39.6% 39.7% 37.5% 19 Dec-18 209,930 57.1% 172 73.9% 21.3% 36.5% 21.7% 85 44.0% 25.0 50.1% 39.6% 39.2% 39.2% 20 Nov-18 212,950 56.6% 175 69.2% 17.0% 38.3% 11.0% 86 43.7% 24.9 49.7% 39.2% 39.2% 22.8% 37.8% 24.9 49.9% 39.6% 37.5% 22.8% 36.4% 36.5% 24.9 49.7% 39.2% 39.2% 39.2% 30.3% 40.7% 22.8% 36.5% 17.5% 85 43.7% 24.9 50.5% 37.8% 40.7% 22.5% 37.5% 22.2% 85 43.8% 24.9 49.7% 39.2% 39.2% 24.9 50.5% 37.8% 40.7% 22.5% 37.5% 36.5% 15.5% 85 43.7% 24.9 50.5% 37.8% 40.7% 22.5% 37.5% 22.5% 86 43.8% 24.9 49.7% 39.2% 39.2% 24.9 11.9% 36.5% 11.0% 86 43.6% 24.9 50.5% 37.8% 40.7% 22.5% 37.8% 40.7% 22.5% 85 43.7% 24.9 50.5% 37.8% 40.7% 22.5% 37.5% 22.5% 85 43.8% 24.9 49.7% 39.2% 39.2% 24.9 50.5% 37.8% 40.7% 22.5% 37.5% 22.5% 85 43.7% 24.9 50.5% 37.8% 40.7% 22.5% 37.5% 22.5% 85 43.8% 24.9 49.7% 39.2% 39.2% 24.9 50.5% 37.8% 40.7% 22.5% 37.5% 40.3% 40.8% 24.9 50.5% 37.8% 40.7% 22.5% 85 43.8% 24.9 50.5% 37.8% 40.7% 22.5% 85 43.8% 24.9 50.5% 37.8% 40.7% 22.5% 85 43.8% 24.9 50.5% 37.8% 40.7% 22.5% 85 43.8% 24.9 50.5% 37.8% 40.7% 22.5% 85 43.8% 24.9 50.5% 37.8% 40.7% 22.	4	Mar-20	181,300	67.2%	175	70.4%	22.5%	38.5%	24.4%	85	45.2%	26.2	44.5%	37.3%	44.8%
7 Dec-19 181,230 67.3% 174 71.3% 19.8% 38.2% 17.3% 85 44.1% 25.0 47.1% 37.6% 44.0% 8 Nov-19 192,190 63.7% 176 66.8% 17.8% 31.9% 13.19% 13.11% 86 43.8% 25.0 47.3% 38.0% 43.4% 19.0 Cet-19 212,330 57.7% 179 64.3% 16.6% 35.4% 11.0% 86 41.7% 25.0 48.3% 38.2% 41.3% 10 Sep-19 220,920 53.3% 182 58.8% 18.0% 35.8% 13.7% 86 41.8% 25.0 49.4% 38.3% 41.7% 11 Aug-19 239,110 48.9% 185 55.9% 19.7% 36.4% 16.9% 86 42.1% 25.0 49.3% 39.0% 38.5% 12 Jul-19 233,000 50.8% 187 51.4% 20.7% 36.6% 19.3% 86 42.4% 24.9 50.4% 38.6% 39.7% 13 Jul-19 203,890 57.1% 186 50.9% 21.6% 37.4% 22.6% 86 42.6% 25.0 49.8% 38.9% 39.6% 14 May-19 192,280 63.6% 183 56.0% 21.4% 37.1% 21.5% 85 44.4% 25.0 49.8% 39.2% 38.3% 15 Apr-19 187,310 65.1% 178 64.3% 21.8% 37.4% 22.2% 85 44.0% 25.0 49.8% 39.2% 39.2% 38.3% 16 Mar-19 187,170 65.7% 174 71.0% 22.2% 37.2% 23.3% 85 44.0% 25.0 49.8% 39.7% 37.5% 17 Feb-19 196,300 62.3% 172 73.9% 21.3% 36.5% 21.7% 85 44.0% 25.0 50.1% 39.6% 37.5% 19 Dec-18 203,930 57.1% 172 73.9% 21.3% 36.5% 21.7% 85 44.0% 25.0 50.1% 39.6% 37.5% 19 Dec-18 209,930 57.1% 172 73.9% 21.3% 36.5% 15.5% 85 44.0% 25.0 50.1% 39.6% 37.5% 21.9% 30.5% 15.5% 86 43.7% 24.9 50.4% 39.5% 39.5% 39.2% 38.3% 10.0 62.3% 172 73.9% 21.3% 36.5% 21.7% 85 44.0% 25.0 50.1% 39.6% 37.5% 21.3% 36.5% 15.5% 86 43.5% 24.9 49.9% 39.2% 39.2% 38.3% 10.0 62.3% 172 73.9% 17.4% 31.1% 15.2% 85 43.5% 24.9 50.4% 39.5% 39.5% 30.5% 15.5% 86 43.7% 24.9 50.6% 39.5% 39.2% 38.3% 10.0 62.3% 172 73.9% 17.4% 31.1% 86 43.5% 24.9 49.7% 39.5% 40.2% 22.9% 38.3% 11.0% 86 44.2% 24.9 50.5% 37.8% 40.7% 22.5% 38.3% 40.7% 22.9% 36.5% 15.5% 86 43.5% 24.9 50.5% 37.8% 40.7% 22.5% 38.3% 41.1% 35.5% 39.5% 30.	5	Feb-20	177,950	68.4%	173	73.9%	22.4%	38.4%	24.4%	86	44.0%	25.1	44.7%	37.1%	45.5%
8 Nov-19 192,190 63.7% 176 66.8% 17.8% 31.9% 13.1% 86 43.8% 25.0 47.3% 38.0% 43.4% 9 Oct-19 213,230 57.7% 179 64.3% 16.6% 35.4% 11.0% 86 41.7% 25.0 48.3% 38.2% 41.3% 13.7% 86 41.8% 25.0 49.4% 38.2% 41.3% 11.7% 11 Aug-19 239,110 48.9% 185 55.9% 19.7% 36.4% 16.9% 86 42.1% 25.0 49.4% 38.3% 41.7% 12 Jul-19 233,000 50.8% 187 51.4% 20.7% 36.8% 19.3% 86 42.4% 24.9 50.4% 38.6% 39.7% 13 Jun-19 203,990 57.1% 186 50.9% 21.6% 37.4% 22.6% 86 42.6% 25.0 48.6% 38.9% 39.6% 15 Apr-19 187,310 65.1% 178 64.3% 21.8% 37.4% 22.2% 85 44.0% 25.0 49.8% 39.4% 37.9% 16 Mar-19 187,170 65.7% 174 71.0% 22.2% 37.2% 23.3% 85 43.8% 24.9 49.9% 39.7% 37.5% 18 Jan-19 203,490 60.6% 171 73.7% 19.3% 36.5% 15.5% 85 44.0% 25.0 149.9% 39.7% 37.5% 19 Dec-18 209,930 57.1% 172 73.0% 17.4% 19.3% 36.5% 11.0% 86 44.2% 24.9 50.4% 39.8% 39.2% 38.3% 39.0% 39.5% 19 Dec-18 209,930 57.1% 172 73.0% 17.4% 31.1% 12.2% 85 43.4% 24.9 49.7% 39.2% 39.2% 22.5% 22.5% 24.9% 22.9% 22.5% 24.9% 22.9%	6	Jan-20	186,350	65.5%	173	72.9%	21.3%	38.9%	21.2%	85	44.4%	25.1	45.7%	37.7%	44.2%
9 Oct-19 213,230 57.7% 179 64.3% 16.6% 35.4% 11.0% 86 41.7% 25.0 48.3% 38.2% 41.3% 10 Sep-19 220,920 53.3% 182 58.8% 18.0% 35.8% 13.7% 86 41.8% 25.0 49.4% 38.3% 41.7% 11 Aug-19 239,110 48.9% 185 55.9% 19.7% 36.8% 19.3% 86 42.1% 25.0 49.3% 39.0% 38.5% 12 Jul-19 233,000 50.8% 187 51.4% 20.7% 36.8% 19.3% 86 42.4% 24.9 50.4% 38.6% 39.7% 13 Jul-19 203,890 57.1% 186 50.9% 21.6% 37.4% 22.6% 86 42.6% 25.0 49.8% 39.2% 38.3% 15 Apr-19 192,280 63.6% 183 56.0% 21.4% 37.1% 21.5% 85 44.4% 25.0 49.8% 39.2% 38.3% 15 Apr-19 187,310 65.1% 178 64.3% 21.8% 37.4% 22.2% 85 44.0% 25.0 49.8% 39.4% 37.5% 16 Mar-19 196,300 62.3% 172 73.9% 21.3% 36.5% 21.7% 85 44.0% 25.0 49.8% 39.7% 37.5% 18 Jan-19 203,490 60.6% 171 73.7% 19.3% 36.5% 21.7% 85 44.0% 25.0 50.1% 39.6% 37.5% 18 Jan-19 203,490 60.6% 171 73.7% 19.3% 36.5% 15.5% 85 43.7% 24.9 50.4% 39.3% 38.3% 19.0 Dec-18 209,930 57.1% 172 73.0% 17.4% 11.0% 38.3% 11.0% 86 44.2% 24.9 50.4% 39.3% 39.2% 39.2% 22.8% 24.9% 20.49 49.7% 39.2% 39.2% 22.8% 22.8% 24.9% 24.9 50.4% 39.3% 38.3% 40.7% 22.5% 22.5% 25.0 42.8% 24.9 49.7% 39.2% 39.2% 22.5% 22.5% 22.3% 22.3% 22.3% 24.9 49.7% 39.2% 39.2% 22.5% 22.5% 22.5% 22.5% 24.9% 24.9 50.4% 39.3% 38.3% 24.0% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 49.7% 39.2% 39.2% 24.9 50.5% 37.8% 40.7% 22.5% 24.9 50.5% 37.8% 40.7% 22.5% 24.9 50.5% 37.8% 40.7% 22.5% 24.9 50.6% 37.7% 40.8% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.9% 24.9 50.6% 37.7% 43.0% 22.2% 24.9 24.9 50.6% 37.7% 43.0% 22.2% 24.9 24.0% 24.9 50.6% 37.7% 43.0% 22	7	Dec-19	181,230	67.3%	174	71.3%	19.8%	38.2%	17.3%	85	44.1%	25.0	47.1%	37.6%	44.0%
10 Sep-19 220,920 53.3% 182 58.8% 18.0% 35.8% 13.7% 86 41.8% 25.0 49.4% 38.3% 41.7% 11 Aug-19 239,110 48.9% 185 55.9% 19.7% 36.4% 16.9% 86 42.1% 25.0 49.3% 39.0% 38.5% 12 Jul-19 233,000 50.8% 187 51.4% 20.7% 36.8% 19.3% 86 42.4% 24.9 50.4% 38.6% 39.7% 13 Jul-19 203,890 57.1% 186 50.9% 21.6% 37.4% 22.6% 86 42.6% 25.0 48.6% 38.89% 39.6% 14 May-19 192,280 63.6% 183 56.0% 21.4% 37.1% 21.5% 85 44.4% 25.0 49.8% 39.2% 38.3% 15 Apr-19 187,310 65.1% 178 64.3% 21.8% 37.4% 22.2% 85 44.0% 25.0 49.8% 39.7% 37.5% 17 Feb-19 196,300 62.3% 172 73.9% 21.3% 36.5% 21.7% 85 44.0% 25.0 49.8% 39.7% 37.5% 18 Jan-19 203,490 60.6% 171 73.7% 19.3% 36.5% 21.7% 85 44.0% 25.0 49.8% 39.3% 38.3% 19 Dec-18 209,930 57.1% 172 73.0% 17.4% 31.1% 12.2% 85 43.8% 24.9 49.7% 39.2% 39.2% 21.0ct-18 240,260 47.9% 178 65.7% 17.8% 39.5% 12.6% 85 43.7% 24.9 49.7% 39.2% 39.2% 21.0ct-18 240,260 47.9% 178 65.7% 17.8% 39.5% 12.6% 85 43.7% 24.9 49.7% 39.2% 22.8% 39.4% 39.3% 38.3% 40.8% 24.9 49.7% 39.2% 25.0 49.8% 39.3% 38.3% 40.8% 24.9 49.7% 39.2% 25.0 56.6% 175 69.2% 17.0% 38.3% 11.0% 86 44.2% 24.9 49.7% 39.2% 39.2% 24.0ct-18 240,260 47.9% 178 65.7% 17.8% 39.5% 12.6% 85 43.7% 24.9 49.7% 39.2% 39.2% 24.0ct-18 240,260 47.9% 178 65.7% 17.8% 39.5% 12.6% 85 43.6% 24.9 50.5% 37.5% 40.2% 25.0 50.6% 37	8	Nov-19	192,190	63.7%	176	66.8%	17.8%	31.9%	13.1%	86	43.8%	25.0	47.3%	38.0%	43.4%
11   Aug-19   239,110   48.9%   185   55.9%   19.7%   36.4%   16.9%   86   42.1%   25.0   49.3%   39.0%   38.5%     12   Jul-19   233,000   50.8%   187   51.4%   20.7%   36.8%   19.3%   86   42.4%   24.9   50.4%   38.6%   39.7%     13   Jun-19   203,890   57.1%   186   50.9%   21.6%   37.4%   22.6%   86   42.6%   25.0   48.6%   38.9%   39.6%     15   Apr-19   192,280   63.6%   183   56.0%   21.4%   37.1%   21.5%   85   44.4%   25.0   49.8%   39.2%   38.3%     15   Apr-19   187,310   65.1%   178   64.3%   21.8%   37.4%   22.2%   85   44.0%   25.0   49.8%   39.4%   37.9%     16   Mar-19   187,170   65.7%   174   71.0%   22.2%   37.2%   23.3%   85   43.8%   24.9   49.9%   39.7%   37.5%     17   Feb-19   196,300	9	Oct-19	213,230	57.7%	179	64.3%	16.6%	35.4%	11.0%	86	41.7%	25.0	48.3%	38.2%	41.3%
12     Jul-19     233,000     50.8%     187     51.4%     20.7%     36.8%     19.3%     86     42.4%     24.9     50.4%     38.6%     39.7%       13     Jun-19     203,890     57.1%     186     50.9%     21.6%     37.4%     22.6%     86     42.6%     25.0     48.6%     38.9%     39.6%       14     May-19     192,280     63.6%     183     56.0%     21.4%     37.1%     21.5%     85     44.4%     25.0     49.8%     39.2%     38.3%       15     Apr-19     187,310     65.7%     174     71.0%     22.2%     37.2%     22.3%     85     44.0%     25.0     49.8%     39.4%     37.9%       16     Mar-19     187,170     65.7%     174     71.0%     22.2%     37.2%     23.3%     85     44.0%     25.0     49.8%     39.4%     37.5%       17     Feb-19     196,300     62.3%     172     73.9%     21.3%     36.5%     21.7%     85     44.0% <td>10</td> <td>Sep-19</td> <td>220,920</td> <td>53.3%</td> <td>182</td> <td>58.8%</td> <td>18.0%</td> <td>35.8%</td> <td>13.7%</td> <td>86</td> <td>41.8%</td> <td>25.0</td> <td>49.4%</td> <td>38.3%</td> <td>41.7%</td>	10	Sep-19	220,920	53.3%	182	58.8%	18.0%	35.8%	13.7%	86	41.8%	25.0	49.4%	38.3%	41.7%
13     Jun-19     203,890     57.1%     186     50.9%     21.6%     37.4%     22.6%     86     42.6%     25.0     48.6%     38.9%     39.6%       14     May-19     192,280     63.6%     183     56.0%     21.4%     37.1%     21.5%     85     44.4%     25.0     49.8%     39.2%     38.3%       15     Apr-19     187,310     65.1%     178     64.3%     21.8%     37.4%     22.2%     85     44.0%     25.0     49.8%     39.4%     37.9%       16     Mar-19     187,170     65.7%     174     71.0%     22.2%     37.2%     23.3%     85     44.0%     25.0     49.8%     39.4%     37.5%       18     Jan-19     196,300     62.3%     172     73.9%     21.3%     36.5%     21.7%     85     44.0%     25.0     50.1%     39.6%     37.5%       18     Jan-19     203,490     60.6%     171     73.7%     19.3%     36.5%     15.5%     85     43.7% <td>11</td> <td>Aug-19</td> <td>239,110</td> <td>48.9%</td> <td>185</td> <td>55.9%</td> <td>19.7%</td> <td>36.4%</td> <td>16.9%</td> <td>86</td> <td>42.1%</td> <td>25.0</td> <td>49.3%</td> <td>39.0%</td> <td>38.5%</td>	11	Aug-19	239,110	48.9%	185	55.9%	19.7%	36.4%	16.9%	86	42.1%	25.0	49.3%	39.0%	38.5%
14   May-19   192,280   63.6%   183   56.0%   21.4%   37.1%   21.5%   85   44.4%   25.0   49.8%   39.2%   38.3%     15   Apr-19   187,310   65.1%   178   64.3%   21.8%   37.4%   22.2%   85   44.0%   25.0   49.8%   39.4%   37.9%     16   Mar-19   187,170   65.7%   174   71.0%   22.2%   37.2%   23.3%   85   43.8%   24.9   49.9%   39.7%   37.5%     17   Feb-19   196,300   62.3%   172   73.9%   21.3%   36.5%   21.7%   85   44.0%   25.0   50.1%   39.6%   37.5%     18   Jan-19   203,490   60.6%   171   73.7%   19.3%   36.5%   15.5%   85   43.7%   24.9   50.4%   39.3%   38.3%     19   Dec-18   209,930   57.1%   172   73.0%   17.4%   31.1%   12.2%   85   43.4%   24.9   49.7%   39.2%     20   Nov-18   212,950   56.6%	12	Jul-19	233,000	50.8%	187	51.4%	20.7%	36.8%	19.3%	86	42.4%	24.9	50.4%	38.6%	39.7%
15     Apr-19     187,310     65.1%     178     64.3%     21.8%     37.4%     22.2%     85     44.0%     25.0     49.8%     39.4%     37.9%       16     Mar-19     187,170     65.7%     174     71.0%     22.2%     37.2%     23.3%     85     43.8%     24.9     49.9%     39.7%     37.5%       17     Feb-19     196,300     62.3%     172     73.9%     21.3%     36.5%     21.7%     85     44.0%     25.0     50.1%     39.6%     37.5%       18     Jan-19     203,490     60.6%     171     73.7%     19.3%     36.5%     15.5%     85     43.7%     24.9     50.4%     39.3%     38.3%       19     Dec-18     209,930     57.1%     172     73.0%     17.4%     11.1%     12.2%     85     43.4%     24.9     50.4%     39.3%     38.3%       20     Nov-18     212,950     56.6%     175     69.2%     17.0%     38.3%     11.0%     86     44.2% <td>13</td> <td>Jun-19</td> <td>203,890</td> <td>57.1%</td> <td>186</td> <td>50.9%</td> <td>21.6%</td> <td>37.4%</td> <td>22.6%</td> <td>86</td> <td>42.6%</td> <td>25.0</td> <td>48.6%</td> <td>38.9%</td> <td>39.6%</td>	13	Jun-19	203,890	57.1%	186	50.9%	21.6%	37.4%	22.6%	86	42.6%	25.0	48.6%	38.9%	39.6%
16   Mar-19   187,170   65.7%   174   71.0%   22.2%   37.2%   23.3%   85   43.8%   24.9   49.9%   39.7%   37.5%     17   Feb-19   196,300   62.3%   172   73.9%   21.3%   36.5%   21.7%   85   44.0%   25.0   50.1%   39.6%   37.5%     18   Jan-19   203,490   60.6%   171   73.7%   19.3%   36.5%   15.5%   85   43.7%   24.9   50.4%   39.3%   38.3%     19   Dec-18   209,930   57.1%   172   73.0%   17.4%   31.1%   12.2%   85   43.4%   24.9   49.7%   39.2%   39.2%     20   Nov-18   212,950   56.6%   175   69.2%   17.0%   38.3%   11.0%   86   44.2%   24.9   50.5%   37.8%   40.7%     21   Oct-18   240,260   47.9%   178   65.7%   17.8%   39.5%   12.6%   85   43.7%   24.9   49.7%   38.5%   40.2%     22   Sep-18   257,600	14	May-19	192,280	63.6%	183	56.0%	21.4%	37.1%	21.5%	85	44.4%	25.0	49.8%	39.2%	38.3%
17   Feb-19   196,300   62.3%   172   73.9%   21.3%   36.5%   21.7%   85   44.0%   25.0   50.1%   39.6%   37.5%     18   Jan-19   203,490   60.6%   171   73.7%   19.3%   36.5%   15.5%   85   43.7%   24.9   50.4%   39.3%   38.3%     19   Dec-18   209,930   57.1%   172   73.0%   17.4%   31.1%   12.2%   85   43.4%   24.9   49.7%   39.2%   39.2%     20   Nov-18   212,950   56.6%   175   69.2%   17.0%   38.3%   11.0%   86   44.2%   24.9   49.7%   39.2%   39.2%     21   Oct-18   240,260   47.9%   178   65.7%   17.8%   39.5%   12.6%   85   43.7%   24.9   49.7%   38.5%   40.2%     22   Sep-18   257,600   42.3%   179   64.3%   18.2%   41.1%   13.5%   85   43.6%   24.9   51.5%   38.3%   40.8%     23   Aug-18   248,010	15	Apr-19	187,310	65.1%	178	64.3%	21.8%	37.4%	22.2%	85	44.0%	25.0	49.8%	39.4%	37.9%
18     Jan-19     203,490     60.6%     171     73.7%     19.3%     36.5%     15.5%     85     43.7%     24.9     50.4%     39.3%     38.3%       19     Dec-18     209,930     57.1%     172     73.0%     17.4%     31.1%     12.2%     85     43.4%     24.9     49.7%     39.2%     39.2%       20     Nov-18     212,950     56.6%     175     69.2%     17.0%     38.3%     11.0%     86     44.2%     24.9     50.5%     37.8%     40.7%       21     Oct-18     240,260     47.9%     178     65.7%     17.8%     39.5%     12.6%     85     43.7%     24.9     49.7%     38.5%     40.2%       22     Sep-18     257,600     42.3%     179     64.3%     18.2%     41.1%     13.5%     85     43.6%     24.9     51.5%     38.3%     40.8%       23     Aug-18     248,010     44.3%     182     60.2%     19.9%     40.3%     17.3%     86     43.6% <td>16</td> <td>Mar-19</td> <td>187,170</td> <td>65.7%</td> <td>174</td> <td>71.0%</td> <td>22.2%</td> <td>37.2%</td> <td>23.3%</td> <td>85</td> <td>43.8%</td> <td>24.9</td> <td>49.9%</td> <td>39.7%</td> <td>37.5%</td>	16	Mar-19	187,170	65.7%	174	71.0%	22.2%	37.2%	23.3%	85	43.8%	24.9	49.9%	39.7%	37.5%
19     Dec-18     209,930     57.1%     172     73.0%     17.4%     31.1%     12.2%     85     43.4%     24.9     49.7%     39.2%     39.2%       20     Nov-18     212,950     56.6%     175     69.2%     17.0%     38.3%     11.0%     86     44.2%     24.9     50.5%     37.8%     40.7%       21     Oct-18     240,260     47.9%     178     65.7%     17.8%     39.5%     12.6%     85     43.7%     24.9     49.7%     38.5%     40.2%       22     Sep-18     257,600     42.3%     179     64.3%     18.2%     41.1%     13.5%     85     43.6%     24.9     51.5%     38.3%     40.8%       23     Aug-18     248,010     44.3%     182     60.2%     19.9%     40.3%     17.3%     86     43.0%     24.9     50.6%     38.3%     41.8%       24     Jul-18     239,050     47.4%     182     58.8%     21.0%     40.1%     20.4%     86     43.5% <td>17</td> <td>Feb-19</td> <td>196,300</td> <td>62.3%</td> <td>172</td> <td>73.9%</td> <td>21.3%</td> <td>36.5%</td> <td>21.7%</td> <td>85</td> <td>44.0%</td> <td>25.0</td> <td>50.1%</td> <td>39.6%</td> <td>37.5%</td>	17	Feb-19	196,300	62.3%	172	73.9%	21.3%	36.5%	21.7%	85	44.0%	25.0	50.1%	39.6%	37.5%
20     Nov-18     212,950     56.6%     175     69.2%     17.0%     38.3%     11.0%     86     44.2%     24.9     50.5%     37.8%     40.7%       21     Oct-18     240,260     47.9%     178     65.7%     17.8%     39.5%     12.6%     85     43.7%     24.9     49.7%     38.5%     40.2%       22     Sep-18     257,600     42.3%     179     64.3%     18.2%     41.1%     13.5%     85     43.6%     24.9     51.5%     38.3%     40.8%       23     Aug-18     248,010     44.3%     182     60.2%     19.9%     40.3%     17.3%     86     43.0%     24.9     50.6%     38.3%     41.8%       24     Jul-18     239,050     47.4%     182     58.8%     21.0%     40.1%     20.4%     86     43.5%     24.9     51.1%     38.3%     42.6%       25     Jun-18     220,810     52.8%     182     57.3%     21.3%     38.8%     21.6%     85     43.5% <td>18</td> <td>Jan-19</td> <td>203,490</td> <td>60.6%</td> <td>171</td> <td>73.7%</td> <td>19.3%</td> <td>36.5%</td> <td>15.5%</td> <td>85</td> <td>43.7%</td> <td>24.9</td> <td>50.4%</td> <td>39.3%</td> <td>38.3%</td>	18	Jan-19	203,490	60.6%	171	73.7%	19.3%	36.5%	15.5%	85	43.7%	24.9	50.4%	39.3%	38.3%
21     Oct-18     240,260     47.9%     178     65.7%     17.8%     39.5%     12.6%     85     43.7%     24.9     49.7%     38.5%     40.2%       22     Sep-18     257,600     42.3%     179     64.3%     18.2%     41.1%     13.5%     85     43.6%     24.9     51.5%     38.3%     40.8%       23     Aug-18     248,010     44.3%     182     60.2%     19.9%     40.3%     17.3%     86     43.0%     24.9     50.6%     38.3%     41.8%       24     Jul-18     239,050     47.4%     182     58.8%     21.0%     40.1%     20.4%     86     43.5%     24.9     51.1%     38.3%     42.6%       25     Jun-18     220,810     52.8%     182     57.3%     21.3%     38.8%     21.6%     85     43.5%     24.9     51.1%     37.8%     43.0%       26     May-18     196,540     61.8%     181     59.5%     21.7%     39.6%     22.0%     86     42.7% <td>19</td> <td>Dec-18</td> <td>209,930</td> <td>57.1%</td> <td>172</td> <td>73.0%</td> <td>17.4%</td> <td>31.1%</td> <td>12.2%</td> <td>85</td> <td>43.4%</td> <td>24.9</td> <td>49.7%</td> <td>39.2%</td> <td>39.2%</td>	19	Dec-18	209,930	57.1%	172	73.0%	17.4%	31.1%	12.2%	85	43.4%	24.9	49.7%	39.2%	39.2%
22     Sep-18     257,600     42.3%     179     64.3%     18.2%     41.1%     13.5%     85     43.6%     24.9     51.5%     38.3%     40.8%       23     Aug-18     248,010     44.3%     182     60.2%     19.9%     40.3%     17.3%     86     43.0%     24.9     50.6%     38.3%     41.8%       24     Jul-18     239,050     47.4%     182     58.8%     21.0%     40.1%     20.4%     86     43.5%     24.9     51.1%     38.3%     42.6%       25     Jun-18     220,810     52.8%     182     57.3%     21.3%     38.8%     21.6%     85     43.5%     24.9     51.1%     37.8%     43.0%       26     May-18     196,540     61.8%     181     59.5%     21.7%     39.6%     22.0%     86     42.7%     24.9     50.6%     37.7%     43.0%       27     Apr-18     191,380     63.4%     177     65.8%     21.7%     38.5%     22.2%     85     44.0% <td>20</td> <td>Nov-18</td> <td>212,950</td> <td>56.6%</td> <td>175</td> <td>69.2%</td> <td>17.0%</td> <td>38.3%</td> <td>11.0%</td> <td>86</td> <td>44.2%</td> <td>24.9</td> <td>50.5%</td> <td>37.8%</td> <td>40.7%</td>	20	Nov-18	212,950	56.6%	175	69.2%	17.0%	38.3%	11.0%	86	44.2%	24.9	50.5%	37.8%	40.7%
23   Aug-18   248,010   44.3%   182   60.2%   19.9%   40.3%   17.3%   86   43.0%   24.9   50.6%   38.3%   41.8%     24   Jul-18   239,050   47.4%   182   58.8%   21.0%   40.1%   20.4%   86   43.5%   24.9   51.1%   38.3%   42.6%     25   Jun-18   220,810   52.8%   182   57.3%   21.3%   38.8%   21.6%   85   43.5%   24.9   51.1%   37.8%   43.0%     26   May-18   196,540   61.8%   181   59.5%   21.7%   39.6%   22.0%   86   42.7%   24.9   50.6%   37.7%   43.0%     27   Apr-18   191,380   63.4%   177   65.8%   21.7%   38.5%   22.2%   85   44.0%   24.9   50.2%   37.5%   43.6%     28   Apr-17   197,640   61.1%   181   60.0%   21.7%   47.5%   22.2%   85   45.0%   25.1   48.4%   36.7%   43.6%     29   Apr-16   191,570	21	Oct-18	240,260	47.9%	178	65.7%	17.8%	39.5%	12.6%	85	43.7%	24.9	49.7%	38.5%	40.2%
24     Jul-18     239,050     47.4%     182     58.8%     21.0%     40.1%     20.4%     86     43.5%     24.9     51.1%     38.3%     42.6%       25     Jun-18     220,810     52.8%     182     57.3%     21.3%     38.8%     21.6%     85     43.5%     24.9     51.1%     37.8%     43.0%       26     May-18     196,540     61.8%     181     59.5%     21.7%     39.6%     22.0%     86     42.7%     24.9     50.6%     37.7%     43.0%       27     Apr-18     191,380     63.4%     177     65.8%     21.7%     38.5%     22.2%     85     44.0%     24.9     50.2%     37.5%     43.6%       28     Apr-17     197,640     61.1%     181     60.0%     21.7%     47.5%     22.2%     85     45.0%     25.1     48.4%     36.7%     43.6%       29     Apr-16     191,570     63.6%     181     60.5%     20.8%     43.9%     19.3%     85     44.1% <td>22</td> <td>Sep-18</td> <td>257,600</td> <td>42.3%</td> <td>179</td> <td>64.3%</td> <td>18.2%</td> <td>41.1%</td> <td>13.5%</td> <td>85</td> <td>43.6%</td> <td>24.9</td> <td>51.5%</td> <td>38.3%</td> <td>40.8%</td>	22	Sep-18	257,600	42.3%	179	64.3%	18.2%	41.1%	13.5%	85	43.6%	24.9	51.5%	38.3%	40.8%
25     Jun-18     220,810     52.8%     182     57.3%     21.3%     38.8%     21.6%     85     43.5%     24.9     51.1%     37.8%     43.0%       26     May-18     196,540     61.8%     181     59.5%     21.7%     39.6%     22.0%     86     42.7%     24.9     50.6%     37.7%     43.0%       27     Apr-18     191,380     63.4%     177     65.8%     21.7%     38.5%     22.2%     85     44.0%     24.9     50.2%     37.5%     43.6%       28     Apr-17     197,640     61.1%     181     60.0%     21.7%     47.5%     22.2%     85     45.0%     25.1     48.4%     36.7%     43.6%       29     Apr-16     191,570     63.6%     181     60.5%     20.8%     43.9%     19.3%     85     44.1%     25.4     42.2%     36.2%     46.8%	23	Aug-18	248,010	44.3%	182	60.2%	19.9%	40.3%	17.3%	86	43.0%	24.9	50.6%	38.3%	41.8%
26 May-18 196,540 61.8% 181 59.5% 21.7% 39.6% 22.0% 86 42.7% 24.9 50.6% 37.7% 43.0%   27 Apr-18 191,380 63.4% 177 65.8% 21.7% 38.5% 22.2% 85 44.0% 24.9 50.2% 37.5% 43.6%   28 Apr-17 197,640 61.1% 181 60.0% 21.7% 47.5% 22.2% 85 45.0% 25.1 48.4% 36.7% 43.6%   29 Apr-16 191,570 63.6% 181 60.5% 20.8% 43.9% 19.3% 85 44.1% 25.4 42.2% 36.2% 46.8%	24	Jul-18	239,050	47.4%	182	58.8%	21.0%	40.1%	20.4%	86	43.5%	24.9	51.1%	38.3%	42.6%
27 Apr-18 191,380 63.4% 177 65.8% 21.7% 38.5% 22.2% 85 44.0% 24.9 50.2% 37.5% 43.6%   28 Apr-17 197,640 61.1% 181 60.0% 21.7% 47.5% 22.2% 85 45.0% 25.1 48.4% 36.7% 43.6%   29 Apr-16 191,570 63.6% 181 60.5% 20.8% 43.9% 19.3% 85 44.1% 25.4 42.2% 36.2% 46.8%	25	Jun-18	220,810	52.8%	182	57.3%	21.3%	38.8%	21.6%	85	43.5%	24.9	51.1%	37.8%	43.0%
28     Apr-17     197,640     61.1%     181     60.0%     21.7%     47.5%     22.2%     85     45.0%     25.1     48.4%     36.7%     43.6%       29     Apr-16     191,570     63.6%     181     60.5%     20.8%     43.9%     19.3%     85     44.1%     25.4     42.2%     36.2%     46.8%	26	May-18	196,540	61.8%	181	59.5%	21.7%	39.6%	22.0%	86	42.7%	24.9	50.6%	37.7%	43.0%
29 Apr-16 191,570 63.6% 181 60.5% 20.8% 43.9% 19.3% 85 44.1% 25.4 42.2% 36.2% 46.8%	27	Apr-18	191,380	63.4%	177	65.8%	21.7%	38.5%	22.2%	85	44.0%	24.9	50.2%	37.5%	43.6%
	28	Apr-17	197,640	61.1%	181	60.0%	21.7%	47.5%	22.2%	85	45.0%	25.1	48.4%	36.7%	43.6%
	29	Apr-16	191,570	63.6%	181	60.5%	20.8%		19.3%		44.1%	25.4	42.2%	36.2%	46.8%

