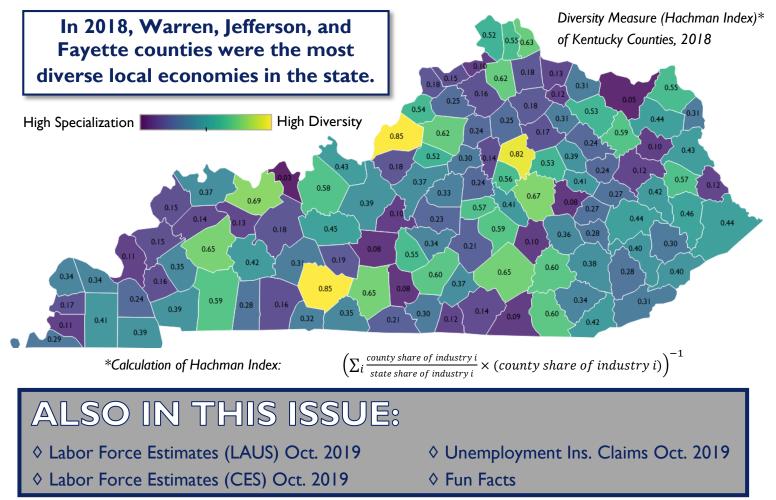


Economic Diversity and Specialization Among Kentucky Counties

For many economic and workforce development professionals, shaping a diverse economy while nourishing advantageous local specializations is a complicated balancing act. There is likely no 'correct' strategy- a substantial body of research suggests that a greater dispersion of employment among industries increases an economy's stability (Dissart, 2003) and stimulates growth (Pede, 2013), while other research suggests that regional economic specialization can foster innovation via competition among firms (Porter, 1990), and may be associated with greater economic efficiency (Glaeser et al., 1992). The following analysis explores the level of economic diversity within Kentucky counties, as well as their unique economic specializations.

The Hachman Index, developed by Frank Hachman at the Bureau of Economic Research at the University of Utah, is a nationally recognized "measure of the economic diversity of a region based on how closely the composition of industries matches that of a larger and well-diversified reference region" (Benway, 2017). This analysis will utilize the Hachman Index, assigning a value to each county in Kentucky based on how closely their industry composition resembles that of the state as a whole. Index values range from zero (where the local economy does not resemble the state economy) to one (where the local economy perfectly resembles the state economy). Underlying data are at the 3-digit level of the North American Industrial Classification System (NAICS), and are obtained from Kentucky's Quarterly Census of Employment and Wages (QCEW) program.





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Kentucky Labor Force Update

A monthly publication of the Kentucky Center for Statistics (KYSTATS) Jessica Cunningham, Ph.D., Executive Director Ashley Jones, Labor Market Information Branch Manager

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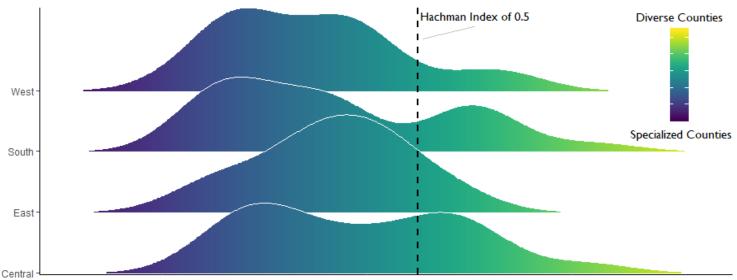
Contributors to Kentucky Labor Force Update this month: Kimberly Gester, Kasi House, Sam Keathley, Beth Kelly Ph.D and Logan Rupard

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Economic Diversity and Specialization KYSTATS Among Kentucky Counties

Economic Diversity as Measured by the Hachman Index

Hachman Index Distribution of Kentucky Counties by Workforce Development Region, 2018



Hachman Index Value

Jobs in many Kentucky counties are distributed among various industries in such a way as to bear a relatively strong resemblance to the state as a whole; 29 counties exhibited Hachman Index values greater than 0.5 in 2018. The remaining counties (shown to the left of the dotted line in the graph above) can be characterized as having some form of increased industry specialization. Of Kentucky's four Workforce

Highly diverse local economies are most common in the state's South and Central regions.

Development Planning Regions (WDPRs), the Central and South regions are comprised of more diverse county economies with a Hachman Index value greater than 0.5 (38% and 30%, respectively) than the West and East (13% and 12%, respectively). The West region features the lowest median Hachman Index value (0.28), which reflects the presence of highly specialized economies in that area. The East region is the most homogenous, with 20 of its 33 counties exhibiting Hachman Index values between 0.25 and 0.45.

Kentucky's urban economies tend to be more diverse, while rural and micropolitan economies are typically more specialized. Fifty-two percent of counties with Hachman Index values greater than 0.5 are located in metropolitan areas, compared to only 22 percent of counties with Hachman Index values lower than 0.5, indicating that Kentucky's urban economies tend to be more diverse, while rural and micropolitan economies are typically more specialized in some way.

Economic Diversity and Specialization KYSTATS Among Kentucky Counties

Economic Specialization as Measured by Location Quotients

In the course of producing the Hachman Index value for a given county, a location quotient is calculated for each of the county's active industries. A location quotient is a measure of an industry's employment concentration within a county, compared to its concentration in the state as a whole. The industry with the highest location quotient within a county can be characterized as that county's *strongest* economic specialization. At the 3-digit NAICS level, there are 24 of these

unique specializations among all Kentucky counties. To give a broad overview of which areas of the state feature which kinds of specializations, the maps below indicate the larger NAICS category into which each county's specialization falls. A full list of specific counties, along with the industry exhibiting the highest location quotient in 2018, is provided in Appendix A on the next page.

Some form of manufacturing is the most common industry specialization among Kentucky counties.

Kentucky Counties Featuring Industry Specialization in Manufacturing, 2018

Kentucky Counties Featuring Industry Specialization in Mining, Quarrying, and Oil and Gas Extraction, 2018



Kentucky Counties Featuring Industry Specialization in Transportation and Warehousing, 2018

Kentucky Counties Featuring Industry

Specialization in Agriculture, Forestry,

Fishing and Hunting, 2018

Kentucky Counties Featuring Miscellaneous Industry Specializations, 2018

- Administrative and Waste Services
- Arts, Entertainment, and Recreation
- Finance and Insurance
- Information
- Management of Companies and Enterprises
- Public Administration
- Real Estate and Rental and Leasing
- 📕 Retail Trade
- Utilities
- Wholesale Trade



Economic Diversity and Specialization Among Kentucky Counties

Summary

The level of economic diversity among Kentucky counties varies substantially, and the metropolitan economies of the Central and South regions of the state rank among the most diverse. Rural and micropolitan counties more commonly have specialized economies, where one industry (or a small group of industries) holds a higher concentration of employment in the county than it does in the state as a whole. While some form of manufacturing is the strongest economic specialization in fifty counties (as measured by location quotients), there were as many as 24 unique industry specializations among Kentucky counties in 2018.

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Appendix A – Industry (3-digit NAICS code) With Highest Location Quotient by County, 2018

County	Industry	County	Industry
Anderson	Nonmetallic Mineral Product Manufacturing	Carlisle	Crop Production
Ballard	Fishing, Hunting and Trapping	Carroll	Fabricated Metal Product Manufacturing
Barren	Printing and Related Support Activities	Carter	Apparel Manufacturing
Bath	Food Manufacturing	Casey	Forestry and Logging
Bell	Forestry and Logging	Christian	Textile Mills
Boone	Air Transportation	Clark	Furniture and Related Product Manufacturing
Bourbon	Support Activities for Agriculture and Forestry	Clay	Justice, Public Order, and Safety Activities
Boyd	Petroleum and Coal Products Manufacturing	Clinton	Textile Product Mills
Boyle	Miscellaneous Manufacturing	Crittenden	Computer and Electronic Product Manufacturing
Bracken	Plastics and Rubber Products Manufacturing	Cumberland	Furniture and Related Product Manufacturing
Breathitt	Administration of Economic Programs	Daviess	Pipeline Transportation
Breckinridge	Pipeline Transportation	Edmonson	Museums, Historical Sites, and Similar Institutions
Bullitt	Warehousing and Storage	Elliott	Justice, Public Order, and Safety Activities
Butler	Waste Management and Remediation Services	Estill	Apparel Manufacturing
Caldwell	Forestry and Logging	Fayette	Computer and Electronic Product Manufacturing
Calloway	Truck Transportation	Fleming	Administration of Economic Programs
Campbell	Scenic and Sightseeing Transportation	Floyd	Oil and Gas Extraction

Economic Diversity and Specialization Among Kentucky Counties

Appendix A (cont'd) - Industry (3-digit NAICS code) With Highest Location Quotient by County, 2018

County	Industry
Franklin	Administration of Human Resource Programs
Fulton	Paper Manufacturing
Gallatin	Primary Metal Manufacturing
Garrard	Nonmetallic Mineral Product Manufacturing
Grant	Administration of Housing Programs, Urban
	Planning, and Community Development
Graves	Forestry and Logging
Grayson	Furniture and Related Product Manufacturing
Green	Transit and Ground Passenger Transportation
Greenup	Petroleum and Coal Products Manufacturing
Hancock	Primary Metal Manufacturing
Hardin	National Security and International Affairs
Harlan	Mining (except Oil and Gas)
Harrison	Paper Manufacturing
Hart	Textile Product Mills
Henderson	Primary Metal Manufacturing
Henry	Primary Metal Manufacturing
Hickman	Crop Production
Hopkins	Support Activities for Mining
Jackson	Utilities
Jefferson	Monetary Authorities-Central Bank
Jessamine	Motion Picture and Sound Recording
	Industries
Johnson	Support Activities for Mining
Kenton	Securities, Commodity Contracts, and Other Financial Investments and Related Activities
Knott	Telecommunications
Knox	Nonmetallic Mineral Product Manufacturing
LaRue	Apparel Manufacturing
Laurel	Forestry and Logging
Lawrence	Oil and Gas Extraction
Lee	Oil and Gas Extraction
Leslie	Mining (except Oil and Gas)
Letcher	Mining (except Oil and Gas)
Lewis	Textile Mills
Lincoln	Pipeline Transportation
Livingston	Leather and Allied Product Manufacturing
Logan	Leather and Allied Product Manufacturing
Lyon	Justice, Public Order, and Safety Activities
Madison	National Security and International Affairs
Magoffin	Forestry and Logging
Marion	Plastics and Rubber Products Manufacturing
Marshall	Chemical Manufacturing
Martin	Oil and Gas Extraction
Mason	Computer and Electronic Product
. 105011	Manufacturing

Highest Loc	cation Quotient by County, 2018
County	Industry
McCracken	Water Transportation
McCreary	Textile Product Mills
McLean	Animal Production and Aquaculture
Meade	Chemical Manufacturing
Menifee	Forestry and Logging
Mercer	Nonmetallic Mineral Product Manufacturing
Metcalfe	Apparel Manufacturing
Monroe	Wood Product Manufacturing
Montgomery	Furniture and Related Product Manufacturing
Morgan	Miscellaneous Manufacturing
Muhlenberg	Lessors of Nonfinancial Intangible Assets
	(except Copyrighted Works)
Nelson	Beverage and Tobacco Product Manufacturing
Nicholas	Textile Product Mills
Ohio	Support Activities for Mining
Oldham	Insurance Carriers and Related Activities
Owen	Computer and Electronic Product
a .	Manufacturing
Owsley	Transit and Ground Passenger Transportation
Pendleton	Waste Management and Remediation Services
Perry	Mining (except Oil and Gas)
Pike	Oil and Gas Extraction
Powell	Pipeline Transportation
Pulaski	Wood Product Manufacturing
Robertson	Pipeline Transportation
Rockcastle	Data Processing, Hosting, and Related Services
Rowan	Wood Product Manufacturing
Russell	Administration of Housing Programs, Urban Planning, and Community Development
Scott	Transportation Equipment Manufacturing
Shelby	Clothing and Clothing Accessories Stores
Simpson	Leather and Allied Product Manufacturing
Spencer	Nonstore Retailers
Taylor	Apparel Manufacturing
Todd	Wholesale Electronic Markets and Agents and Brokers
Trigg	Crop Production
Trimble	Lessors of Nonfinancial Intangible Assets
	(except Copyrighted Works)
Union	Mining (except Oil and Gas)
Warren	Management of Companies and Enterprises
Washington	Crop Production
Wayne	Forestry and Logging
Webster	Fishing, Hunting and Trapping
Whitley	Support Activities for Mining
Wolfe	Forestry and Logging
Woodford	Support Activities for Agriculture and Forestry

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October 2019 Labor Force Estimates (LAUS)

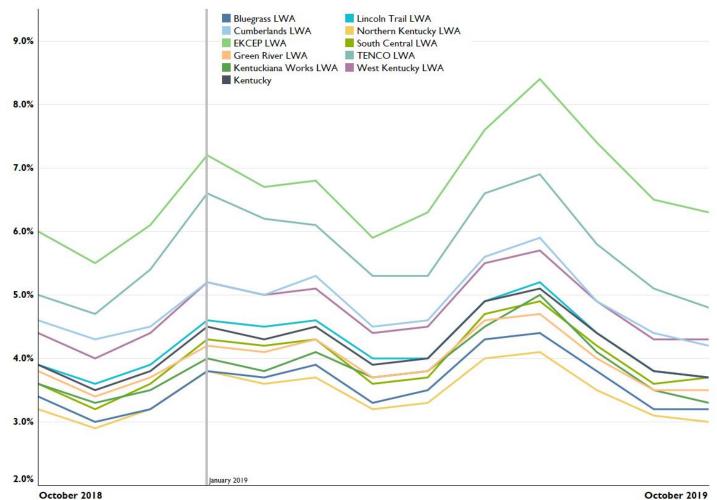
Source: KYSTATS, Local Area Unemployment Statistics (LAUS)*

	Oct.	Sept. Oct		OVER-the-MONTH		OVER-the-YEAR	
	2019	2019	2018	Change	Rate	Change	Rate
Civilian Labor Force	2,077,025	2,073,254	2,062,404	3,771	0.2%	14,621	0.7%
Employment	1,986,977	1,982,721	1,973,477	4,256	0.2%	13,500	0.7%
Unemployment	90,048	90,533	88,927	-485	-0.5%	1,121	1.3%
Unemployment Rate	4.3%	4.4%	4.3%	-0.1%	-	0.0%	-
U.S. Unemployment Rate	3.6%	3.5%	3.8%	0.1%	-	-0.2%	-

* Estimates shown above are seasonally adjusted. October 2019 estimates are preliminary and subject to revision.

Unemployment Rate by Local Workforce Area and State

KYSTATS



* Estimates shown in the chart above are not seasonally adjusted. October 2019 estimates are preliminary and subject to revision.

October 2019 Labor Force Estimates (CES)

Source: KYSTATS, Current Employment Statistics (CES)*

Total Nonfarm Employment 1,964,500 1,961,500 1,933,400 3,000 0 Private Sector Employment 1,652,800 1,649,500 1,619,300 3,300 0 Goods Producing Industries 343,200 345,200 340,900 -2,000 -0 Mining and Logging 8,600 9,100 10,400 -500 -5 Construction 79,700 79,200 78,300 500 00 Manufacturing 254,900 256,900 252,200 -2,000 -0 Durable Goods 163,900 166,300 164,400 -2,400 -1 Non-Durable Goods 91,000 90,600 87,800 400 0 Trade, Transportation, & Utilities 411,600 411,200 403,100 400 0 Wholesale Trade 216,200 215,200 212,600 1,000 0 Information 21,700 21,800 21,800 -100 -0 Financial Activities 95,500 95,300 94,200 200	ate Change .2% 31,100 .2% 33,500 .6% 2,300 .5% -1,800 .6% 2,700 .4% -500 .4% 31,200 .1% 8,500 .8% -500	3.6% 2.4% 2.1%
Private Sector Employment 1,652,800 1,649,500 1,619,300 3,300 0 Goods Producing Industries 343,200 345,200 340,900 -2,000 -0 Mining and Logging 8,600 9,100 10,400 -500 -5 Construction 79,700 79,200 78,300 500 00 Manufacturing 254,900 256,900 252,200 -2,000 -0 Durable Goods 163,900 166,300 164,400 -2,400 -1 Non-Durable Goods 91,000 90,600 87,800 400 00 Private Service Providing Industries 1,309,600 1,304,300 1,278,400 5,300 0 Trade, Transportation, & Utilities 411,600 411,200 403,100 400 0 Wholesale Trade 75,400 76,800 75,900 -1,400 -1 Retail Trade 21,700 21,800 21,800 0 0 Information 21,700 21,800 21,800 0	.2% 33,500 .6% 2,300 .5% -1,800 0.6% 1,400 0.8% 2,700 .4% -500 0.4% 3,200 .4% 31,200 0.1% 8,500	2.1% 0.7% -17.3% 1.8% 1.1% -0.3% 3.6% 2.4% 2.1%
Goods Producing Industries 343,200 345,200 340,900 -2,000 -0 Mining and Logging 8,600 9,100 10,400 -500 -5 Construction 79,700 79,200 78,300 500 0 Manufacturing 254,900 256,900 252,200 -2,000 -0 Durable Goods 163,900 166,300 164,400 -2,400 -1 Non-Durable Goods 91,000 90,600 87,800 400 0 Private Service Providing Industries 1,309,600 1,304,300 1,278,400 5,300 0 Trade, Transportation, & Utilities 411,600 411,200 403,100 400 0 Wholesale Trade 75,400 76,800 75,900 -1,400 -1 Retail Trade 216,200 215,200 212,600 1,000 0 Information 21,700 21,800 21,800 -100 -0 Finance and Insurance 74,700 74,700 73,800 0 0	.6% 2,300 5.5% -1,800 0.6% 1,400 0.8% 2,700 0.4% -500 0.4% 3,200 .4% 31,200 0.1% 8,500	0.7% -17.3% 1.8% 1.1% -0.3% 3.6% 2.4% 2.1%
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Financial Activities 95,500 95,300 94,200 200 00 Finance and Insurance 74,700 74,700 73,800 0 0 0 Real Estate, Rental & Leasing 20,800 20,600 20,400 200 1 Professional and Business Services 219,400 217,700 215,500 1,700 0 Prof, Scientific, & Tech Services 77,900 77,700 76,700 200 0 Management of Companies 21,000 21,100 20,700 -100 -0	.7% 5,400	4.7%
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Admin & Support & Waste Mgmt 120,500 118,900 118,100 1,600 1	.3% 2,400	2.0%
Educational & Health Services 291,600 290,500 280,500 1,100 0	.4% 11,100	4.0%
Educational Services 31,000 30,700 30,300 300 I	.0% 700	2.3%
Health Care & Social Assistance 260,600 259,800 250,200 800 0	.3% 10,400	4.2%
Leisure and Hospitality 202,600 201,000 197,600 1,600 0	.8% 5,000	2.5%
Arts, Entertainment & Recreation 23,400 23,000 22,700 400 I	.7% 700	3.1%
Accommodation & Food Services 179,200 178,000 174,900 1,200 0	.7% 4,300	2.5%
Other Services 67,200 66,800 65,700 400 0	0.6% I,500	2.3%
Government 311,700 312,000 314,100 -300 -0	.1% -2,400	-0.8%
Federal 35,800 36,000 36,500 -200 -0	.6% -700	-1.9%
State 92,600 92,600 94,300 0 0	.0% -1,700	-1.8%
Local 183,300 183,400 183,300 -100 -0	0.1% 0	0.0%

* Data are seasonally adjusted. October 2019 data are preliminary and subject to revision.

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Unemployment Insurance Claims October 2019 (Kentucky, Statewide)

Source: U.S. Dept. of Labor, Employment and Training Administration

					Average		
	Initial	First	Weeks	Weeks	Weekly	Benefits	Final
Month	Claims	Payments	Claimed	Compensated	Benefit	Paid	Payments
10/31/2018	8,340	2,817	70,942	62,601	\$346.01	\$21,718,218	1,308
11/30/2018	11,629	2,553	60,459	53,298	\$347.80	\$18,585,342	982
12/31/2018	16,320	3,393	66,452	57,885	\$343.45	\$19,967,923	1,061
1/31/2019	17,896	6,795	93,400	78,628	\$345.70	\$27,310,045	1,257
2/28/2019	13,347	4,466	87,716	76,053	\$350.53	\$26,770,130	1,103
3/31/2019	8,327	2,919	79,384	71,924	\$345.00	\$24,914,450	1,100
4/30/2019	9,109	2,948	78,957	68,554	\$356.26	\$24,493,113	1,245
5/31/2019	9,446	2,902	63,719	56,412	\$357.08	\$20,216,805	1,059
6/30/2019	10,274	2,890	63,623	56,359	\$347.79	\$19,710,185	994
7/31/2019	l 6,487	4,133	88,606	74,889	\$350.17	\$26,372,779	1,367
8/31/2019	8,806	3,265	67,616	60,130	\$360.12	\$21,767,816	1,194
9/30/2019	9,038	2,499	63,961	62,496	\$369.41	\$23,182,837	1,211
10/31/2019	10,017	3,740	66,45 I	60,063	\$381.19	\$22,921,703	1,173

Data queried from https://oui.doleta.gov/ on 11/21/2019.

Fun Facts: The True Cost of the 12 Days of Christmas



If, on the first day of Christmas, your true love were to give you a partridge in a pear tree, how much would it cost? Every year the PNC Financial Services Group, Inc. estimates the cost of the 12 gifts in the carol "The Twelve Days of Christmas" (<u>https://www.pncchristmaspriceindex.com/</u>). In 2019, the total cost of the 12 gifts is estimated at \$38,994, a slight increase from last year (\$38,095). We wondered how long it would take Kentucky workers to earn enough to afford such a proclamation of love. The gift list includes:

- A partridge in a pear tree
- Two turtle doves

(YSTATS

- Three French hens
- Four calling birds

- Five gold rings
- Six geese a-laying
- Seven swans a-swimming
- Eight maids a-milking
- Nine ladies dancing
- Ten lords a-leaping
- 6 Eleven pipers piping
- Twelve drummers drumming

Using data from Occupational Employment Statistics (OES), Kentuckians make an average annual wage of \$44,185. It would take nearly 11 months to earn enough to pay for these lavish gifts. And this does not factor in the costs associated with caring for all of these items such as an arborist for the pear tree, an ornithologist for all of the birds, farm workers for the assumed cows or goats to be milked, a veterinarian which will inevitably be needed, a landscaper to tend to the lake for the swans, as well as an agent for the lords, pipers and drummers. Estimated annual wages are shown in the table below using OES data.

Standard Octometicnel Classification (SOC) Title	KY Average
Standard Occupational Classification (SOC) Title	Annual Wage*
Agents and Business Managers of Artists, Performers, and Athletes (13-1011)	\$66,718
Animal Caretaker (39-2021)	\$23,459
Entertainers and Performers, Sports and Related Workers, All Other (27-2099)	\$36,379
Farmworkers, Farm, Ranch and Aquacultural Animals (45-2093)	\$27,581
Forester (19-1032)	\$48,510
Landscaping and Groundskeeping Worker (37-3011)	\$28,909
Musicians and Singers (27-2042)	\$46,010**
Veterinarian (29-1131)	\$87,660

* Assumes a 40 hour work week.

** Data for 2019 and 2018 not available, so 2017 value used.



KYSTATS in the News



KYSTATS moved to the 5th floor of the new Mayo-Underwood building in downtown Frankfort located at 500 Mero Street. The Mayo-Underwood Building houses approximately 1,500 workers from the Education and Workforce Development, Labor, Public Protection and Tourism, Arts and Heritage cabinets as well as the Kentucky Communications Network Authority, State Risk and some employees from the Commonwealth Office of Technology.



The <u>Kentucky Workforce Dashboard</u> has recently been updated with current data - including newly - added Apprenticeship data!



In December, the <u>Kentucky Future Skills Report</u> will be updated with the newest data on earned educational credentials and five-year occupational demand projections.



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Additionally, you can sign up for the KYSTATS listserv at the bottom of our homepage.

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