Commonwealth of Kentucky
Workforce and Labor Market Information Grant (WIG)
Core Products and Services
Annual Report for PY 2018

Education and Workforce Development Cabinet
Kentucky Center for Statistics (KYSTATS)
Workforce Intelligence Branch

Kentucky is pleased to present the PY 2018 Annual Report on the Workforce and Labor Information Grant (WIG) core products and services. Continuing cooperation and consultation with both customers and partner agencies enabled the Workforce Intelligence Branch within the Kentucky Education and Workforce Development Cabinet, to meet its objectives for PY 2018. The fulfillment of the deliverables outlined below provided the means for the Commonwealth to identify, develop, and maintain sustainable and competitive regional economies and support planning for long-term economic growth and stability.

The Workforce Intelligence Branch (Branch) is housed within the Kentucky Center for Statistics (KYSTATS). KYSTATS is the state agency charged with collecting and linking data to evaluate education and workforce efforts in the Commonwealth so that policymakers, practitioners, and the general public can make better informed decisions. KYSTATS also maintains Kentucky's Longitudinal Data System (KLDS), a statewide longitudinal data system that facilitates integration of data from multiple education and workforce sources and creates reports for stakeholders.

This strategic alignment, initiated in 2017, continues to afford the Branch opportunities to expand both the scope and quality of the services and products traditionally provided through Labor Market Information (LMI). It also reflects Kentucky's commitment to provide quality information to all customers of the workforce information system.

In PY 2018, a wide range of products and services were generated through collaboration with the KLDS research team; and as always, through the Branch's Bureau of Labor Statistics' (BLS) cooperative programs and the Employment and Training Administration (ETA) Workforce and Labor Market Information Grant (WIG).

1. **Workforce Information Database (WID)**

    During PY 2018, Kentucky continued to populate and maintain all of the designated core tables in the WID. Kentucky development staff also continued to streamline the process of formatting, revising, and loading data to the WID.

    Kentucky currently maintains WID Version 2.7 and will upgrade to Version 2.8 in PY 2019.

    Kentucky updated its licensing data for the LICAUTH, LICENSE, and LIXCOCC tables in the WID at the end of PY 2017. This updated licensing data was also submitted to the Analyst Resource Center (ARC) for inclusion in the ARC database in June 2018. The ARC periodically shares this database with CareerOneStop for use in their License Finder tool. Per the requirements of Analyst Resource Center, Kentucky updates these core tables every two years. The next revisions are due in PY 2019.

    Other information housed in the WID includes: Local Area Unemployment Statistics (LAUS), Current Employment Statistics (CES), Quarterly Census of Employment and Wages (QCEW) data, Consumer Price Index (CPI), income data, occupational employment and wage estimates, industry and occupational projections, and population data.

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Another key component in the WID is the Infogroup Employer Database. During PY 2018, Kentucky incorporated the 2019 Second Edition of the database into the WID. Kentucky also updated the Find Employers Dashboard to allow users to access the most recent version of the Employer Database. The dashboard, developed in Tableau, is accessible at https://kystats.ky.gov/KYLMI and allows users to search for employers by industry, keyword, county, size range, and other select criteria. The layout for this dashboard was also refined in PY 2018 to improve user functionality.

Task	Task Focus	Milestone Date	Principal Customers	Status
Perform routine updates of designated core tables, including current cycle projections data	Data update	Ongoing	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Ongoing
Incorporate InfoGroup Employer Database (EMPDB) updates into the WID semi-annually	Data update	As available	Same as above	Ongoing
Maintain and update Find Employers search module KYLMI webpage on KYSTATS website	Data update	June 2019	Same as above	Ongoing
Streamline processing of data uploads and revisions/updates, and expand staff training on WID requirements and processes	Capacity building/ Training	Ongoing	LMI Staff	Ongoing

2. **Industry and occupational employment projections**

In PY 2017, Kentucky developed and submitted to the Projections Management Partnership (PMP) statewide, long-term projections using 2016 as a base year, and implementing the BLS Separations Methodology for the 2016-2026 estimates.

In early PY 2018, Kentucky re-ran these projections using revised staffing patterns generated from the recently updated Local Employment and Wage Information System (LEWIS), to allow for greater publication detail and decreased suppression of occupations. This second set of statewide, long-term projections were submitted to the PMP in August 2018, and incorporated into the Kentucky Occupational Outlook to 2026, which was published in September 2018. The publication is located at https://kystats.ky.gov/Content/Reports/2016-2026%20KY%20Occupational%20Outlook.pdf.

In PY 2018, Kentucky also updated the industry employment time series to include 2017 employment data. This updated time series was used to develop statewide, short-term (two year) industry and occupational projections for 2018-2020 using 2018 as a base year. These short-term projections were submitted to the PMP in March 2019 and incorporated into Kentucky's WID.

In PY 2018, Kentucky also began development of sub-state, long-term industry and occupational projections for the period of 2016-2026 for each of the state's Local Workforce Areas (LWA).

To improve the quality of these sub-state projections, Kentucky consulted with partner agencies, including state and local economic development offices, local chambers of commerce, and LWAs, to solicit feedback on preliminary, unpublished industry projections. Kentucky also developed an in-house Tableau dashboard, which was shared with these internal partners, to facilitate review. The insight provided by workforce professionals, each with specific knowledge of local, contemporary events (including new business

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locations, groundbreakings, and closings) allowed Kentucky to incorporate an additional, meaningful layer to the review process, and enhance not only the final industry-level projections, but also the subsequent occupational projections.

The resulting long-term occupational projections were also Kentucky's first sub-state level estimates to implement the BLS Separation Methodology.

Finalized sub-state, long-term occupational and industry projections (2016-2026) were submitted to the PMP at the beginning of PY 2019 and incorporated into the WID in July 2019.

Finalized occupational projections were also made available on the KYSTATS website utilizing a new, interactive version of the Occupational Outlook. This dynamic, Tableau-based report, which replaced the traditional Outlook publication, incorporated both state and sub-state level projections for 2016-2026, as well as educational attainment and wage data. The dashboard was developed PY 2018, and launched in July 2019 to coincide with the release of the LWA occupational projections. The Occupational Outlook Dashboard is located at https://kystats.ky.gov/Reports/Tableau/OOD_2019.

Finally, in PY 2018, Kentucky LMI staff collaborated with the KYSTATS research team to update the five-year occupational projections (at both the state and sub-state level) utilized in the Kentucky Future Skills Report (KFSR), Kentucky's first labor supply/demand report. The updated KFSR is located at https://kystats.ky.gov/Latest/KFSR.

In addition, the Branch continued to explore options to produce five-year projections through other means, including outreach to other states to investigate alternate methodologies. Kentucky also participated in the breakout session on five-year projections during the PMP conference in October 2018.

Task	Task Focus	Milestone Date	Principal Customers	Status
Perform state comparison and publish statewide, long-term projections to the PMP	Data Update	July 2018	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Completed
Generate second set of statewide, long-term projections (2016-2026) utilizing updated staffing patterns from LEWIS and submit to the PMP	Data Quality/ Data Update	August 2018	Same as above	Completed
Utilize second set of statewide, long-term projections to produce the Kentucky Occupational Outlooks to 2026 publication	Data Delivery	September 2018	Same as above	Completed
Update NAICS time-series to include 2017 employment data	Data Update	December 2018	Same as above	Completed
Develop statewide, short-term projections (2018-2020) using 2018 as a base year and submit to the PMP	Data Update	March 2019	Same as above	Completed

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Task	Task Focus	Milestone Date	Principal Customers	Status
Develop preliminary, sub-state, industry projections review partnership, including development of internal industry projections review dashboard, and consult with local workforce professionals to capture current regional events not depicted in historical time series data	Data Quality	May 2019	Same as above	Completed
Develop sub-state, long-term occupational and industry projection using Projections Suite and implementing the BLS Separations methodology, and submit estimates to the PMP	Data Update	July 2019	Same as above	Completed - Developed June 2019, Finalized July 2019.
Develop and launch interactive, Tableau-based Occupational Outlook Dashboard	Product Development/ Dynamic LMI Report and Publications	July 2019	Same as above	Completed - Developed June 2019, Launched July 2019.
Populate WID with current cycle projections data	Data Delivery	As new projections estimates become available	Same as above	Completed
Explore options for producing five-year projections at the state and sub-state levels	Product Development	Ongoing	LMI Staff	Ongoing

3. **Annual economic analysis and other reports**

In accordance with the requirements of Training and Employment Guidance Letter (TEGL) No. 20-17, the Branch prepared a comprehensive statewide economic analysis for PY 2018 to support the planning and decision-making efforts of Kentucky's policymakers, as well as the state and local workforce development boards. This report provides a detailed analysis of Kentucky's economy and workforce at both the statewide and regional (LWA) level. Included in the analysis is an in-depth review of Kentucky's Gross Domestic Product (GDP), personal income, population, demographics, educational attainment, civilian labor force (including participation rates, employment, and unemployment), unemployment insurance claims, occupational and industry employment and wages, and projections. The statewide economic analysis for PY 2018 was submitted to the ETA regional office.

Kentucky also provided recurring analysis in the form of its monthly LMI newsletter, the *Kentucky Labor Force Update*. In addition to highlighting recent LMI data releases, each issue of the *Kentucky Labor Force Update*, examines a different workforce or labor market topic. Subjects explored in PY 2018 include:
- Recession and Recovery in Kentucky by Area and Industry
- Statewide Occupational Projections and Implementation of the BLS Separations Methodology
- The Correlation Between Unemployment and Wage Rates
- Small Business Employment in Kentucky
- Overview of LMI Programs and Estimates
- Kentucky Business Employment Dynamics
- The Aging Workforce in Kentucky
- Geographical Distribution of Employment in Kentucky Urban, Semi-Urban, and Rural Areas
- Non-Profit Employment Trends in Kentucky
- Kentucky Commuting Patterns

Past and current issues of the *Kentucky Labor Force Update* are available on the KYSTATS website at https://kystats.ky.gov/Reports/ShowReports?ReportId=WP-LF_2018&publishDate=20190923.

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Another key piece of analysis was made available to customers through the KFSR. The KFSR is an online, interactive report utilizing historic workforce supply, current employment outcomes, and future workforce demand to assist policymakers, practitioners, and the public in making education and workforce decisions. The KFSR was updated in PY 2018 with the most current supply, outcomes, and future demand data (2018-2022), and is available at https://kystats.ky.gov/Latest/KFSR.

Analysis was also provided to customers via the interactive Kentucky Industry Profiler. The Kentucky Industry Profiler utilizes monthly, quarterly, and annual employment and wage data to provide detailed, industry-level information by geographical area. This dynamic dashboard allows users to view current industry data, analyze historical trends over time, and make comparisons across broad and detailed industry groups, geographies, and ownerships. The Industry Profiler was last updated in June 2018 and is available at https://kystats.ky.gov/Reports/Tableau/Industry_Profiler_2018.

Kentucky also prepared detailed analysis for the U.S. Department of Labor in accordance with the provisions of the Consolidated Farm and Rural Development Act, Employment and Training Administration regulations, and the procedures described in the Employment Service Program Letter 9-91 for the Rural Industrialization Loan and Grant Program. The Branch provided detailed labor market, workforce, and economic information, and assessment related to an application for a rural loan on related local industry to evaluate potential impacts to competitors. This analysis was submitted to the U.S. Department of Labor in May 2019, and also provided to the ETA Regional Office in Atlanta.

Task	Task Focus	Milestone Date	Principal Customers	Status
Prepare and submit to ETA a detailed, statewide economic analysis for the program year	Economic Analysis	October 1, 2019	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Completed
Develop new, recurring analyses for incorporation into the monthly LMI newsletter (*Kentucky Labor Force Update*)	Economic Analysis/ Product Development	Monthly	Same as above	Ongoing
Maintain and publish the Kentucky Future Skills Report (KFSR) online	Information Delivery	Ongoing	Same as above	Updated KFSR published February 2019
Maintain and publish the Kentucky Industry Profiler Report online	Information Delivery	Ongoing	Same as above	Last update June 2019
Provide analysis and detailed labor market, workforce, and economic information for the U.S. Department of Labor for the Rural Industrialization Loan and Grant Program	Economic Analysis/ Information Delivery	May 2019	Same as above	Completed

4. **Customer Consultations**

The Branch continued consultation with state and local WIOA professionals and board members regarding workforce information issues; and conferred with various national, state, and local agencies and other organizations involved in policy making regarding current and projected workforce information needs. Regular exchanges of ideas between users and suppliers of workforce information occurred through numerous meetings, demonstrations, focus groups, and conferences.

The broad scope of existing partnerships KYSTATS has within the education and workforce community, including local chambers of commerce, state K-12 and postsecondary education organizations, and others,

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has allowed the Workforce Intelligence Branch to build upon current relationships and cultivate new ones, increasing the interaction between LMI and its key customer groups. This communication and feedback from the customer groups was the driving force behind the economic analysis and products produced by the Branch in PY 2018.

To increase visibility, in PY 2018 Kentucky actively marketed its products to LWAs and other user groups. Working in collaboration with KYSTATS communications staff, Kentucky issued press releases, conducted regional workshops, and provided training on the products and services available from LMI. In late PY 2018, Kentucky also began production of an LMI overview video to appear on the website to educate visitors about the data available through the state LMI shop. The video is slated for publication in October 2019.

Kentucky was proactive in its exchanges with LWAs and other customer groups. Rather than waiting for customer requests for information, Kentucky maintained a "product push" to routinely deliver new products to customers as they became available. This "product push" is designed not only to provide customers with much needed information, but also to inform them of the wide range of data and analyses available from the LMI shop.

The Branch also recognizes the importance of assessing customer satisfaction and the role it plays in the improvement of products and services. Throughout PY 2018 a concerted effort was made to obtain customer input on new product design, as well as feedback on existing products. Through meetings, presentations, conferences, focus groups, and individual consultations, Kentucky solicited feedback to improve the products and services offered to users of labor market information.

Task	Task Focus	Milestone Date	Principal Customers	Status
Promote the exchange of ideas between users and suppliers of workforce data through meetings, demonstrations, focus groups and conferences	Outreach	Ongoing	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Ongoing
Continue consultation with Local Workforce Areas through meetings, focus groups, and other methods to determine customer needs	Outreach/ Product Development	Ongoing	Same as above	Ongoing
Increase and cultivate relationships with the education community to identify areas needing analysis	Outreach/ Product Development	Ongoing	Same as above	Ongoing
Increase visibility of LMI, and the LMI customer base, through marketing of LMI products and services, including development of LMI explainer web-video	Marketing	Ongoing	Same as above	Ongoing
Maintain product push to provide customers with LMI products and services as they become available; and to garner feedback on those products	Outreach/ Customer Satisfaction Assessment	Ongoing	Same as above	Ongoing
Improve existing analyses, reports, and tools based on customer feedback	Product Enhancement	Ongoing	Same as above	Ongoing

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5. Activities undertaken to meet customer needs

Throughout the program year, Kentucky routinely provided analysis of local economic conditions, including local area occupational projections, industry, occupation, employment, unemployment, and wage data, as requested by WIOA professionals and other customers, including state and local economic development agencies, schools, and chambers of commerce.

Kentucky prepared special state, local, and regional studies to provide information to communities undergoing economic transition, those implementing state and sub-state workforce development initiatives, or experiencing major layoffs or disasters, and to support implementation, and reporting on, the Workforce Innovation and Opportunity Act (WIOA). In PY 2018, the Branch received numerous requests for information. In response, Kentucky utilized existing products and programs, and sought other avenues and sources of data in an effort to provide the best information to meet the needs of each customer.

In addition, Kentucky routinely consulted with stakeholders and data users, including state agency partners, educators, economic developers, workforce professionals, career center staff, and others, to identify data needs and guide the development of recurring publications that will be of benefit to a wider-range audience. Customer response has been overwhelmingly positive regarding this emphasis on user-driven product development. This focus will continue in PY 2019.

In PY 2018 the Branch partnered with the Kentucky Office of Employment and Training (OET) to provide data and support for the annual WIOA formula allotments for the agency. The Branch also routinely provided data elements and analyses used in reporting metrics for the WIOA Combined State Plan.

In addition, KYSTATS is serving as a partner in the development of Kentucky's upcoming WIOA Combined State Strategic Plan. The Branch is conducting analysis, and also providing data including employment, industry, labor force, demographic, and occupational demand data to assist the Commonwealth in drafting the framework for its updated plan. The work of KYSTATS as part of this multi-agency partnership began in PY 2018 and will continue into the next program year.

In PY 2018, KYSTATS also partnered with the Kentucky Chamber of Commerce to assist with the Talent Pipeline Management (TPM) pilot. The TPM initiative identified and surveyed regional employers to project short-term demand (two-year or less), as well as requisite knowledge (competency) and skills, for particular occupations in select sub-state areas and industries. KYSTATS supported the TPM pilot through assessment of initial needs assessment survey materials; assistance in identifying, standardizing, and classifying occupations; and by providing feedback on survey results and subsequent projections, including a comparison and analysis of TPM projections against the ETA/BLS projections produced by the Branch.

As an established partner with the Kentucky Workforce Investment Board (KWIB), the Office of Employment and Training, and the Education and Workforce Development Cabinet, KYSTATS was charged in PY 2018 with the creation of the Kentucky Workforce Dashboard. The dashboard is an interactive Tableau-based report that provides, in a single location, an overview for each LWA of labor market health, workforce funding distribution, and service outcomes for employers, customers, UI, and Adult Education. The metrics utilized in the dashboard reflect the workforce and technical education priorities of WIOA, the KWIB's strategic plan, and the Commonwealth's workforce partners. The dashboard is updated quarterly and is located at https://kystats.ky.gov/Reports/Tableau/KWD_2019.

The Branch also collaborated extensively with the local areas to produce a current, concise, regional analysis of the workforce and labor market conditions for each area. In PY 2018, Kentucky worked with LWA stakeholders to identify the necessary workforce metrics and desired format for the regional publication. The resulting product, the Workforce Overview Report for Kentucky Regions (WORKR), incorporates current data and trends in employment, unemployment, UI claims, employment levels and share by industry, average weekly wages, projections, and occupational wages. WORKR publications were developed for each of Kentucky's ten LWAs and submitted for final stakeholder review in PY 2018. Once finalized, WORKR profiles will be published on the KYSTATS website and updated regularly as new data are released.

Task	Task Focus	Milestone Date	Principal Customers	Status
Conduct special studies as needed, and respond to customer requests by providing relevant information, data, and analysis	Information/ Data Delivery/ Analysis	Ongoing	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Ongoing
Develop new products, analyses, reports, and tools tailored to customer needs	Product Development	Ongoing	Same as above	Ongoing
Support the Talent Pipeline Management (TPM) initiative by providing design assessment, occupational classification, and evaluation of results	Evaluation/ Analysis	June 2019	Kentucky Chamber of Commerce	Completed
Support WIOA planning and implementation by providing data for annual funding allotments and for WIOA reporting metrics	Data delivery	Ongoing	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Ongoing
Serve as part of multi-agency partnership in the development of the updated Kentucky WIOA Strategic Plan	Workforce Planning Support/ Analysis	Continue in PY 2019	Same as above	Ongoing
Collaborate with the Commonwealth's workforce partners and the KWIB to develop a Workforce Dashboard	Product Development/ Information Delivery	Ongoing	Same as above	Initial version launched
Develop and publish printable regional analysis for LWAs incorporating metrics and format requested by local workforce partners (WORKR)	Product Development	December 2019	Same as above	Final stakeholder review

6. New tools and resources

Many of the new tools and resources produced in PY 2018 were the direct result of the customer consultations and partnerships listed above. KYSTATS continues to foster these relationships, allowing customer needs to be the driving force behind new product development.

Informational products and services are delivered to customers primarily through the KYSTATS website at https://kystats.ky.gov, and are available on both the Reports page and the LMI Report Library. Both the KYLMI page, located at https://kystats.ky.gov/KYLMI, and the KYSTATS website utilize Tableau software to provide customers the ability to define and generate reports based on user-selected data and geography. Users can create and view customized reports and maps, download files, and produce printable reports.

In PY 2018, KYSTATS overhauled much of its existing website to create a streamlined and more-user friendly platform. Kentucky met with stakeholders and data users to identify needs and guide the development of this new design, with the overarching goal of creating a more intuitive site for visitors. The resulting website continues to provide users with an array of dynamic reports, data, and analysis, but allows users to access the information they need with minimal navigation (fewer clicks) and promotes the sharing of interactive tools and reports through truncated web links. In PY 2019, these new design principles will be implemented on the LMI Report Library page to create a seamless interface for users.

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The Kentucky Occupational Outlook to 2026, which utilizes the most recent 2016-2026 long-term statewide projections, was published in September 2018 and is available at https://kystats.ky.gov/Content/Reports/2016-2026%20KY%20Occupational%20Outlook.pdf.

In PY 2018, Kentucky also developed a new, interactive version of the Occupational Outlook to 2026 to replace the traditional publication. The dynamic, new Tableau-based report, incorporates both state and sub-state long term projections for the period of 2016-2026, as well as educational attainment and wage data. The dashboard was launched in July 2019 in conjunction with the release of the LWA occupational projections. The Occupational Outlook Dashboard is located at https://kystats.ky.gov/Reports/Tableau/OOD_2019.

Also developed in PY 2018, and launched in July 2019, was the KYSTATS Career Explorer. This new tool, which replaces the traditional Career Profiles publication, incorporates publicly available data from KYSTATS, BLS, and O*Net, including 5-year projections, job descriptions, career videos, skills, abilities, occupational wage estimates, and education and training data. Using this unique platform, job seekers and students can explore career options based on self-assessed Knowledge, Skills & Abilities, Desired Salary, Major or Certification, and Desired Occupation. Upon completion of the assessment, users are provided with a list of careers that best match their interest, skills, or other selected criteria. The tool also provides information on in-state training providers offering educational programs and credentials for the returned occupations. Typical education and training requirements, projected openings, estimated wages, suggested knowledge, skills, and abilities, job descriptions, and videos detailing individual occupations are also provided. The KYSTATS Career Explorer is located at https://kystats.ky.gov/CareerExplorer.

The new Civilian Labor Force Report (CLFR) was also launched in PY 2018. This interactive, Tableau-based report allows users to explore current and historical labor force estimates, including civilian labor force, employment, unemployment, and unemployment rate. The measures provided in this dashboard allow users to return results by county, LWA, and Area Development District (ADD) and to compare estimates across multiple geography types. The CLFR is updated monthly and is located at https://kystats.ky.gov/Reports/Tableau/CLFR_2019.

The Kentucky Workforce Dashboard, which serves as a barometer for Kentucky's workforce ecosystem and provides an overview of labor market health, workforce funding distribution, and service outcomes is located at https://kystats.ky.gov/Reports/Tableau/KWD_2019.

Several existing tools were also updated during the program year.

The LMI Area Profile, a dynamic report providing a snapshot of key economic metrics by area and industry sector, was updated routinely in PY 2018 to provide the most recent civilian labor force estimates as well as occupational and industry sector employment and wages. The LMI Area Profile can be found at https://kcewsreports.ky.gov/t/KCEWS/views/LMIAreaProfile/FullSize?:embed=y&:showShareOptions=true&:display_count=no&:showVizHome=no.

Another dynamic piece of analysis, the KFSR which allows users to explore historic workforce supply, current employment outcomes, and future workforce demand was updated to reflect current supply, employment, and demand data. The full version of the updated KFSR is available at https://kystats.ky.gov/Latest/KFSR.

The Kentucky Industry Profiler provides interactive analysis for users seeking to examine current and historical employment and wage trends by detailed industry levels, geographies, ownerships, and time periods. The Kentucky Industry Profiler was updated regularly in PY 2018 to include the most recent, final quarter of QCEW data. It is located at https://kystats.ky.gov/Reports/Tableau/Industry_Profiler_2018.

The Find Employers tool was updated to include the 2019 2nd Edition of the Employer Database and is at https://kcewsreports.ky.gov/t/KCEWS/views/empdb/FinalDisplay?iframeSizedToWindow=true&:embed=y&:showAppBanner=false&:display_count=no&:showVizHome=no.

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For researchers and others seeking to download large amounts of data, Excel tables for current and historical data sets are available. The QCEW tables published on the website were redesigned in PY 2018 to allow for greater publication detail at both industry and geographic level. QCEW data is available back to 1990, and is updated quarterly. Annual occupational employment and wage estimate files for the state and sub-state areas were updated during the program, and Excel files, containing LAUS estimates, including labor force participation rates, are updated monthly.

Static tables including monthly CES tables and monthly UI Performance Measures are provided. Standard LMI publications, including maps, press releases, and other economic analysis are also available.

These tables and LMI publications are housed within the Kentucky Labor Market Information Library located at https://KYSTATS.ky.gov/KYLMI. On this page, Kentucky maintains links to the Kentucky Career Center, StatsAmerica, QWI Explorer, Census LED OnTheMap, U.S. Bureau of Labor Statistics, Business Employment Dynamics, and the U.S. Census Bureau.

Visits and downloads to the website are tracked using Google Analytics. In PY 2018, the Labor Market Information Report Library had more than 45,000 page views, while the KYSTATS website overall had nearly 117,000 views.

The website also facilitates customer contact. The Contact KYSTATS page allows users to provide feedback, and the Data Request Form allows users to easily request data and other information from the website. Users can also sign up to join the KYSTATS listserv.

Task	Task Focus	Milestone Date	Principal Customers	Status
Maintain and enhance labor market information delivery system	Website Maintenance	Ongoing	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Ongoing
Develop and publish dynamic labor market information reports based on needs determined by stakeholders and data users. New dynamic reports developed in PY 2018 include:	Product Development/ Dynamic LMI Reports and Publications	Ongoing	Same as above	Ongoing
• Develop and launch interactive, Occupational Outlook Dashboard, utilizing both statewide and LWA long-term projections to 2026	Product Development/ Dynamic LMI Reports and Publications	July 2019	Same as above	Completed - Developed June 2019 Launched July 2019
• Complete development and launch interactive Civilian Labor Force Report (CLFR) and update monthly	Product Development/ Dynamic LMI Reports and Publications	March 2019	Same as above	Completed
• Develop and launch interactive Career Explorer tool	Product Development/ Dynamic LMI Reports and Publications	July 2019	Same as above	Completed

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Task	Task Focus	Milestone Date	Principal Customers	Status
• Develop and launch utilizing Workforce Dashboard measures needed for WIOA, the KWIB, and state workforce partners	Product Development/ Dynamic LMI Reports and Publications	August 2019	Same as above	Completed – Developed PY 2018 Launched August 2019
Maintain, refine, and update existing dynamic labor market information reports as new data becomes available. Dynamic reports updated in PY 2018 include:	Product Maintenance/ Dynamic LMI Reports and Publications	Ongoing	Same as above	Ongoing
• Maintain and update the KFSR on an annual basis	Product Maintenance/ Dynamic LMI Reports and Publications	January 2019	Same as above	Completed
• Update LMI Area Profiles on a monthly, annual, and quarterly basis	Product Maintenance/ Dynamic LMI Reports and Publications	Ongoing	Same as above	Ongoing
• Update Industry Profiler with most recent final quarter QCEW data	Product Maintenance/ Dynamic LMI Reports and Publications	Ongoing	Same as above	Ongoing
Publish statewide 2016 Kentucky Occupational Outlook publication utilizing second set of statewide, long-term projections	Product Development/ Information Delivery	September 2018	Same as above	Completed
Develop and publish monthly newsletters to provide analyses and highlight LMI data releases (Kentucky Labor Force Update)	Product Development/ Information Delivery	Monthly	Same as above	Ongoing
Produce and publish static maps, tables, press releases, monthly employment situation reports, and economic analysis	Data Delivery	Ongoing	Same as above	Ongoing
Maintain and refine website content based on user feedback. Provide website and Tableau training to staff	Product Development/ Information Delivery	Ongoing	LMI Staff	Ongoing

7. **License requirement(s) updates**
   Kentucky updated its licensing data for the LICAUTH, LICENSE, and LIXCOCC tables in the WID at the end of PY 2017. This updated licensing data was also submitted to the Analyst Resource Center (ARC) for inclusion in the ARC database in June 2018. Kentucky will update these core licensing tables again in PY 2019 per the requirements of the ARC to update tables at least once every two years.

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8. Efforts to support partnerships and collaborations

In PY 2018 KYSTATS began collaborating with the Kentucky Office of Unemployment Insurance (UI) on the upcoming UI system redesign in Kentucky. As a significant user of UI data, both in the BLS labor market statistical programs and through the KLDS system, KYSTATS has vested interest in the success of Kentucky's UI modernization efforts. In September 2018, KYSTATS facilitated a meeting including representatives from LMI, KYSTATS Research team, the BLS Regional Office, the Commonwealth Office of Technology (COT), and the Kentucky UI Office to discuss timelines for the redesign process, LMI and KYSTATS requirements, and pre-implementation planning. KYSTATS also participated in follow-up stakeholder meetings on the impending redesign, and has provided detailed documentation on LMI and KLDS requirements including checklists, currently used UI file and mainframe job listings, necessary file formats and structures, and extract guides.

In PY 2018, KYSTATS also continued to collaborate with the Kentucky Office of Unemployment Insurance to enhance, and aggregate for LWAs, the Monthly Performance Measures developed by the UI Quality Control Branch and published by Workforce Intelligence. The resulting tables are updated monthly and published on the KYSTATS website at https://kystats.ky.gov/KYLMI/UIClaimTables.

In addition, Kentucky continued its partnership with the University of Kentucky's Center for Business and Economic Research (CBER) to enhance the economic analyses provided on the state's workforce and labor market data. In PY 2018, CBER monitored employment trends across the state, prepared press releases, and conducted an updated analysis of the state's labor force participation rates across demographic groups and geographic areas. The updated labor force participation rate analysis will be completed in PY 2019.

Finally, Kentucky continued its cooperation and participation in the U.S. Census Bureau Longitudinal Employer-Household Dynamics (LEHD) project in PY 2018, providing quarterly data used by the program to produce detailed statistics on employment, earning, and job flows for different industries, geographies, and demographics groups.

Task	Task Focus	Milestone Date	Principal Customers	Status
Work in collaboration with the Kentucky Office of Unemployment Insurance on system modernization efforts	UI System Modernization	Ongoing	All users of the Kentucky UI system	Ongoing
Work in collaboration with the Kentucky Office of Unemployment Insurance to enhance, aggregate, and publish UI's Monthly Performance Measures	Information Delivery	Ongoing	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Ongoing
Work in collaboration with CBER to develop, conduct, and publish various economic analysis	Analysis/ Information Delivery	Ongoing	Same as above	Ongoing
Continue cooperation and participation in the US Census LEHD project	Data Delivery	Ongoing	Same as above	Ongoing
Expand outreach and interaction with Local Workforce Areas, the business community, economic development, and other workforce agencies to identify areas needing analysis	Outreach/ Product Development	Ongoing	Same as above	Ongoing

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9. **Activities to leverage LMI-WI funding**

The alignment between KYSTATS and the Workforce Intelligence Branch, has allowed for leveraging of additional data and resources to develop new products, like the Career Explorer tool, that utilize both KYSTATS and BLS/ETA data.

In addition, the wide-ranging partnerships that KYSTATS has established throughout the state, has afforded the LMI shop opportunities for marketing and outreach, raising the profile of LMI products and services. This increased visibility has fostered the interaction between LMI and its core user groups, ultimately driving product improvement in the LMI shop.

Task	Task Focus	Milestone Date	Principal Customers	Status
Leverage additional data and resources available through alignment with KYSTATS to develop new products utilizing both KYSTATS and BLS/ETA data	Product Development	Ongoing	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Ongoing

10. **Recommendations to ETA for changes and improvements to WIGS requirements**

Funding from the Workforce and Labor Market Information Grant (WIG) is used to provide essential workforce information to Kentuckians. The Program enables the Branch to publish a wide array of print and electronic products that benefit our numerous customers and customer groups. Assessing and responding to the changing needs of our customers will continue in PY 2019.

Because of the reliance on UI systems for much of the data produced through BLS statistical programs, (particularly QCEW and LAUS), and for data utilized by the KLDS system, and the Census LEHD program, Kentucky would like to see increased involvement from ETA regarding state UI system modernization efforts.

11. **Brief overview of required training**

A knowledgeable and well-trained staff is essential to the development of useful analyses. To this end, employee development continued to be a priority in PY 2018. Branch personnel attended several U.S. Department of Labor and other state-sponsored statistical program trainings, and also participated in online trainings and webinars throughout the year. In addition, LMI staff participated in training provided by the Projections Management Partnership (PMP); attended and presented at national conferences, such as the Association of Public Data Users' (APDU) Conference and the annual C2ER/LMI Conference; and received training in Tableau software to allow for the development of online, interactive tools that enable customers to easily customize reports, maps, and graphs based on user defined criteria.

All of these trainings afforded Kentucky's staff the opportunity to learn about a variety of labor market projects and initiatives, new and changing program requirements, and software applications. The trainings also allowed participants the chance to interact with colleagues from other states and agencies who are employed in similar positions and work with comparable workforce information products and services.

Finally, cross-training between the LMI, research, and development teams at KYSTATS continued in PY 2018. KYSTATS researchers consulted with LMI projections staff on projections models and methodologies. In turn, LMI analysts were trained by the KYSTATS research team in programs and tools (including Tableau software and R programming) utilized in data reporting. Development staff continued to learn about WID content, maintenance and structure. Cross-training will continue as LMI and KYSTATS explore ways to best utilize staff

and seek ways in which to incorporate the data and analyses provided by each into new and dynamic products for customers.

Customer training, including LMI training for service delivery, was also a focus during PY 2018. In August 2018, KYSTATS held a WebEx training geared specifically for career center personnel. This online training covered LMI data, concepts, and utilization of the tools on the KYSTATS website for service delivery, including the KFSR. Participants included Kentucky Office of Employment and Training (OET) leadership, OET Business Services and Job Seeker Services personnel, and representatives from local areas offices. The training was conducted jointly by a KYSTATS senior researcher and a lead LMI analyst.

Because workforce information depicts complex conditions subject to interpretation, training was provided to improve the technical skills of LWA professionals and staff. LMI technical training, including LMI data, concepts, and utilization of the KYSTATS website, was also provided.

In addition, Kentucky concluded its mini-conference series in PY 2018. Conducted at locations throughout the state, each mini-conference provided training for LWA professionals, educators, career center staff, and other key customer groups, on the data, analyses, and reports available to them, including the KFSR and Kentucky Industry Profiler. Included with this training was guidance on how to utilize these tools for local planning purposes, enabling local communities to identify, develop and maintain sustainable regional economies. Details on the KYSTATS mini-conference series are below.

Mini- Conference Date	Location	Number of Attendees	Presenters
June 11, 2018	Frankfort, KY	34	KYSTATS Executive Director 4 KYSTATS Research Analysts 2 Guest Speakers
July 18, 2018	Lexington, KY	46	KYSTATS Executive Director 4 KYSTATS Research Analysts 1 Guest Speaker
August 6, 2018	Louisville, KY	34	KYSTATS Executive Director 4 KYSTATS Research Analysts 1 Guest Speaker
September 6, 2018	Hazard, KY	33	KYSTATS Executive Director 3 KYSTATS Research Analysts 1 Guest Speaker
October 17, 2018	Bowling Green, KY	36	KYSTATS Executive Director 2 KYSTATS Research Analysts 1 Guest Speaker
November 7, 2018	Paducah, KY	34	KYSTATS Executive Director 2 KYSTATS Research Analysts 1 Guest Speaker
January 31, 2019	Northern KY	32	KYSTATS Executive Director 3 KYSTATS Research Analysts 1 Guest Speaker
February 12, 2019	Pulaski County	30	KYSTATS Executive Director 4 KYSTATS Research Analysts

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Throughout the program year, KYSTATS was committed to providing customer training and workshops, presenting best practices, analysis and tools, and participating in conferences. Given the vast scope of KYSTATS work, encompassing data from education, to credentials, to KLDS data, to labor market and workforce information, KYSTATS was able to present on a variety of topics to a wide-range of user groups.

Task	Task Focus	Milestone Date	Principal Customers	Status
Continue staff development on national, state, and local LMI initiatives, technical program requirements, software applications; and internal cross training in product development and delivery methods	Capacity Building/ Training	Ongoing	LMI Staff	Ongoing
Provide web-based training on the use of LMI and online tools for service delivery for career center staff and local workforce area professionals	Training/ Outreach	August 2018	Local Workforce Area boards, government agencies, and career center staff	Completed
Provide training to LWA professionals, educators, economic developers, career center staff, and other key customer groups through series of mini-conferences held throughout the state	Training/ Outreach	Throughout PY 2018	Local Workforce Area boards, employers, educators, students, career counselors, economic developers, policymakers, job seekers, and government agencies	Completed
Continue to provide training, presentations, and workshops for key user groups on new KYSTATS and LMI resources, tools, and products	Training/ Outreach	Ongoing	Same as above	Ongoing

Conclusion

PY 2018 was a year highlighted by collaborations, partnerships, and new product development for the Workforce Intelligence Branch. As part of KYSTATS, the Workforce Intelligence Branch continued to expand the scope of its customer base, advance the development of new products, and maintain an emphasis on stakeholder involvement in LMI service delivery. The achievements made in PY 2018 through these WIG funds enabled the Commonwealth to develop a more responsive workforce information system.

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