## March 2005 Benchmarks for the Nonfarm Payroll Survey

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With the release of data for January 2006, the Bureau of Labor Statistics (BLS) introduced its annual revision of national estimates of employment, hours, and earnings from the Current Employment Statistics (CES) monthly survey of nonfarm establishments. Each year, the CES survey realigns its sample-based estimates to reflect more currently available universe counts of employment-a process known as benchmarking. Comprehensive counts of employment, or benchmarks, are derived primarily from the unemployment insurance (UI) tax reports that nearly all employers are required to file with State Employment Security Agencies.

## Summary of the benchmark revisions

The March 2005 benchmark level for total nonfarm employment is $132,038,000$; this figure is 158,000 below the sample-based estimate for March 2005, an adjustment of -0.1 percent. Table 1 shows the total nonfarm percentage benchmark revisions for the past ten years.

Table 2 shows the nonfarm employment benchmarks for March 2005, not seasonally adjusted, by industry. No individual supersector dominated in terms of the size of revision. The largest downward revision occurred in other services with a revision of 69,000 , or -1.3 percent. The revision can primarily be attributed to membership associations and organizations with a downward revision of 69,200 , or 2.4 percent.

Other supersectors had downward revisions of approximately the same magnitude. Estimates in financial activities were revised $-68,000$, or -0.8 percent, while estimates were revised downward by 64,000 in information and also in professional and business services, or 2.1 percent and 0.4 percent respectively. Within financial activities, credit intermediation and related activities revised $-49,000$, or -1.7 percent. Telecommunications revised in information by $-25,200$, or -2.5 percent, while administration and waste services revised -122,100, or -1.6 percent, in professional and business services.

Manufacturing had a smaller revision of $-47,000$, or -0.3 percent, with non-durable goods accounting for the magnitude with a downward revision of 50,000 , or 0.9 percent. Minor downward revisions were present in education and health services ( $-5,000$, or less than 0.05 percent) and mining ( $-2,000$, or -0.3 percent)

Trade, transportation, and utilities revised upward by 74,000 , or 0.3 percent. Retail trade dominated with a revision of 74,300 , or $0.5 \%$ percent, while an upward revision in wholesale trade of 25,000 , or $0.4 \%$, was offset by downward revisions in utilities (20,600, or 3.7 percent) and transportation and warehousing (4,800, or 0.1 percent).

Construction estimate were raised by 35,000 , or 0.5 percent, and government revised upward by 8,000 , or less than 0.05 percent.

## Changes to Direct life insurance carriers series

Direct life insurance carriers population levels have historically included presumed non-covered employment that accounted for approximately 100,000 , or between 20 and 25 percent, of the employment in the series. With the most recently available County

Business Pattern data, the industry refiling of the Economic Census Bureau led to a large shift of in employment between direct life insurance carriers (NAICS 524113) and direct health and medical insurance carriers (NAICS 524114). As a result, the majority of the presumed non-covered employment previously in direct life insurance is now associated with direct health and medical insurance carriers, leading to large benchmark revisions for these two industries ( $-93,000$ and 95,600 respectively).

## Changes to the CES published series list

Changes result from an annual review of sample employment and universe coverage for all estimation cells. Some all employee series will no longer be published as a result of being collapsed into other cells, while other all employee series will be discontinued. Exhibit 3 shows the cells that will be collapsed and renamed. Exhibit 4 shows the discontinued series.

Exhibit 3. Cells renamed/collapsed as of the 2004 benchmark release

| Tabcode | Title | Collapsed with | New title | New collapsed cell tabcode |
| :--- | :--- | :--- | :--- | :--- |
| $31-334411$ | Electron tubes | $31-334414$ and <br> $31-334419$ | Misc. electronic <br> components | $31-334419$ |
| $31-334414$ | Electronic capacitors | $31-334411$ and <br> $31-334419$ | Misc. electronic <br> components | $31-334419$ |
| $31-334419$ | Misc. electronic <br> components | $31-334414$ and <br> $31-334411$ | Misc. electronic <br> components | $31-334419$ |
| $31-336213$ | Motor homes | $31-336214$ | Motor homes, travel trailers, <br> and campers | $31-336214$ |
| $31-336214$ | Travel trailers and <br> campers | $31-336213$ | Motor homes, travel trailers, <br> and campers | $31-336214$ |
| $32-311421$ | Fruit and vegetable <br> canning | $32-311422$ | Fruit, vegetable, and <br> specialty canning | $32-311422$ |


| $32-311422$ | Specialty canning | $32-311421$ | Fruit, vegetable, and <br> specialty canning | $32-311422$ |
| :--- | :--- | :--- | :--- | :--- |

## Exhibit 4. Discontinued series

| Industry title | NAICS code | CES industry code | Next highest published level |
| :--- | :--- | :--- | :--- |
| All other motor vehicle <br> parts | 336399 | 31336399 | Other motor vehicle parts <br> (NAICS 33639) |
| Sheer hosiery mills | 315111 | 32315111 | Hosiery and sock mills (NAICS <br> 31511) |
| Other hosery and sock <br> mills | 315119 | 32315119 | Hosiery and sock mills (NAICS <br> 31511) |

Review of the sample receipts has also led to the discontinuation of production worker, hours, and earnings estimates for some small industries that no longer have sufficient sample. Exhibits 5 and 6 shows the series that will be discontinued.

## Exhibit 5. Discontinued production worker, hours, and earnings series

| Industry title | NAICS code | CES industry code |
| :--- | :---: | :---: |
| Prefabricated metal buildings and <br> components | 332311 | $31-332311$ |

## Exhibit 6. Discontinued average overtime series

| Industry title | NAICS code | CES industry code |
| :--- | :---: | :---: |
| Small arms, ammunition, and <br> other ordnance and assessories | $332992,3,4,5$ | $31-332995$ |


| Photographic and photocopying <br> equipment | 333315 | $31-333315$ |
| :--- | :---: | :---: |
| Motor vehicle steering and <br> suspension parts | 33633 | $31-336330$ |
| Accessories and other apparel | 3159 | $32-315900$ |
| Miscellaneous coated and treated <br> paper and paper bags | $322223,4,5,6$ | $32-322226$ |
| Agricultural chemicals | 3253 | $32-325300$ |

## Revisions in the post-benchmark period

Post-benchmark period estimates from April 2005 to October 2005 were calculated for each month based on new benchmark levels, new model-based estimates for the net of birth/death employment, and a slightly new sample composition resulting from the annual sample update (beginning with November.)

Text table A shows the net birth/death model figures for the supersectors over the post-benchmark period. From April 2005 to December 2005, the cumulative net birth/death model added 817,000, compared with 866,000 in the previously published April to December estimates.

## Revisions to production worker data for Wired Telecommunications (NAICS 51711)

During the benchmark review process, an error was found in the production worker series that affected the December 2004 estimate and as a result the production worker level from that point forward. The production worker series has been corrected for all months from December 2004 forward.

## Revisions to historical average weekly earnings annual averages

In reviewing the benchmark data, small differences in the annual average calculation for average weekly earnings were found from 1990 to 2001 for four series that changed their composition with the 2003 Benchmark. The differences were attributable to rounding conventions associated with the data. The annual averages have been corrected to be consistent with annual average calculations of average weekly earnings for all other series. The four series are other pressed and blown glass and glassware (BLS tabulating code 31327212), other computer peripheral equipment (BLS tabulating code 31334119), other major household appliances (BLS tabulating code 31335228), and miscellaneous commercial printing (BLS tabulating code 32323119).

## Why benchmarks differ from estimates

A benchmark revision is the difference between the benchmark employment level for a given March and its corresponding samplebased estimate. The overall accuracy of the establishment survey is usually gauged by the size of this difference. The benchmark revision often is regarded as a proxy for total survey error, but this does not take into account error in the universe data. The employment counts obtained from quarterly unemployment insurance tax forms are administrative data that reflect employer recordkeeping practices and differing State laws and procedures. The benchmark revision can be more precisely interpreted as the difference between two independently derived employment counts, each subject to its own error sources.

Like all sample surveys, the establishment survey is susceptible to two sources of error: sampling error and nonsampling error. Sampling error is present any time a sample is used to make inferences about a population. The magnitude of the sampling error, or variance, relates directly to sample size and the percentage of the universe covered by that sample. The CES monthly survey captures slightly under one-third of the universe, exceptionally high by usual sampling standards. This coverage insures a small sampling error at the total nonfarm employment level.

Both the universe counts and the establishment survey estimates are subject to nonsampling errors common to all surveyscoverage, response, and processing errors. The error structures for both the CES monthly survey and the UI universe are complex. Still, the two programs generally produce consistent total employment figures, each validating the other. Over the last decade, annual benchmark revisions at the total nonfarm level have averaged 0.2 percent, with an absolute range from less than 0.05 percent to 0.4 percent.

## Benchmark revisions effects for other datatypes

The routine benchmarking process results in revisions to the series for production and nonsupervisory workers. There are no benchmark employment levels for these series; they are revised by preserving ratios of employment for the particular data type to all employees employment prior to benchmarking, and then applying these ratios to the revised all-employee figures. These figures are calculated at the basic cell level and then aggregated to produce the summary estimates.

Average weekly hours and average hourly earnings are not benchmarked; they are estimated solely from reports supplied by survey respondents at the basic estimating cell level.

The aggregate industry levels of the hours and earnings series are derived as a weighted average. The production or nonsupervisory worker employment estimates for the basic cells are used as weights for the hours and earnings estimates for broader industry groupings. Adjustments of the all-employee estimates to new benchmarks may alter the weights, which, in turn, may change the estimates for hours and earnings of production or nonsupervisory workers at higher levels of aggregation.

Generally, new employment benchmarks have little effect on hours and earnings estimates for major groupings. To influence the hours and earnings estimates of a broader group, employment revisions have to be relatively large and must affect industries that have hours or earnings averages that are substantially different from those of other industries in their group. Table 4 gives information on the levels of specific hours and earnings series resulting from the March 2005 benchmark. At the total private level, there was a 0.1 of an hour decrease in average weekly hours from the previously published level, while average hourly earnings was unchanged from the previously published level.

## Methods

Benchmark adjustment procedure. Establishment survey benchmarking is done on an annual basis to a population derived primarily from the administrative file of employees covered by unemployment insurance (UI). The time required to complete the revision process-from the full collection of the UI population data to publication of the revised industry estimates-is about 10 months. The
benchmark adjustment procedure replaces the March sample-based employment estimates with UI-based population counts for March. The benchmark therefore determines the final employment levels, while sample movements capture month-to-month trends.

Benchmarks are established for each basic estimating cell and are aggregated to develop published levels. On a not seasonally adjusted basis, the sample-based estimates for the year preceding and the year following the benchmark also are then subject to revision. Employment estimates for the months between the most recent March benchmark and the previous year's benchmark are adjusted using a "wedge back" procedure. In this process, the difference between the benchmark level and the previously published March estimate for each estimating cell is computed. This difference, or error, is linearly distributed across the 11 months of estimates subsequent to the previous benchmark; eleven-twelfths of the March difference is added to February estimates, ten-twelfths to January estimates, and so on, ending with the previous April estimates, which receive one-twelfth of the March difference. The wedge procedure assumes that the total estimation error accumulated at a steady rate since the last benchmark. Applying previously derived over-the-month sample changes to the revised March level yields revised estimates for the months following the March benchmark. New net birth/death model estimates also are calculated and applied during post-benchmark estimation, and new sample is introduced from the annual update.

Benchmark source material. The principal source of benchmark data for private industries is the Quarterly Census of Employment and Wages (QCEW). These employment data are provided to State Employment Security Agencies by employers covered by State UI
laws. BLS uses several other sources to establish benchmarks for the remaining industries partially covered or exempt from mandatory UI coverage, accounting for nearly 3 percent of the nonfarm employment total.

Data on employees covered under Social Security laws, published by the U.S. Census Bureau in County Business Patterns, are used to augment UI data for nonoffice insurance sales workers, child daycare workers, religious organizations, and private schools and hospitals. Benchmarks for State and local government hospitals and educational institutions are based on the Annual Census of Governments conducted by the Census Bureau. Benchmark data from these sources are available only on a lagged basis. Extrapolation to a current level is accomplished by applying the employment trends from the UI-covered part of the population in these industries to the noncovered part. Universe data for interstate railroads are obtained from the Railroad Retirement Board.

Business birth and death estimation. Regular updating of the CES sample frame with information from the UI universe files helps to keep the CES survey current with respect to employment from business births and business deaths. The timeliest UI universe files available, however, always will be a minimum of 9 months out of date. The CES survey thus can not rely on regular frame maintenance alone to provide estimates for business birth and death employment contributions. BLS has researched both samplebased and model-based approaches to measuring birth units that have not yet appeared on the UI universe frame. Since the research demonstrated that sampling for births was not feasible in the very short CES production timeframes, the Bureau is utilizing a modelbased approach for this component.

Earlier research indicated that while both the business birth and death portions of total employment are generally significant, the net contribution is relatively small and stable. To account for this net birth/death portion of total employment, BLS is utilizing an estimation procedure with two components. The first component uses business deaths to impute employment for business births. This is incorporated into the sample-based link relative estimate procedure by simply not reflecting sample units going out of business, but imputing to them the same trend as the other firms in the sample. The second component is an ARIMA time series model designed to estimate the residual net birth/death employment not accounted for by the imputation. The historical time series used to create and test the ARIMA model was derived from the UI universe micro level database, and reflects the actual residual net of births and deaths over the past five years. The ARIMA model component is reviewed on a quarterly basis. The net birth/death model component figures are unique to each month and include negative adjustments in some months. Furthermore, these figures may exhibit a seasonal pattern observed in the historical UI universe data series.

The most significant potential drawback to this or any model-based approach is that time series modeling assumes a predictable continuation of historical patterns and relationships and therefore is likely to have some difficulty producing reliable estimates at economic turning points, or during periods when there are sudden changes in trend. BLS will continue researching alternative model-based techniques for the net birth/death component; it is likely to remain the most problematic part of the estimation process.

## Availability of revised data

LABSTAT, the BLS public database on the Internet, contains all historical employment, hours, and earnings data revised as a result of this benchmark, including both unadjusted and seasonally adjusted data. The data can be accessed at http://www.bls.gov/ces/, the Current Employment Statistics homepage. Employment, hours, and earnings estimates are also published monthly in Employment and Earnings.

## Seasonal adjustment procedure

BLS uses X-12 ARIMA software developed by the U.S. Census Bureau to seasonally adjust national employment, hours, and earnings series derived from the CES program. Individual series are seasonally adjusted using either a multiplicative or an additive model (Exhibit 7), and seasonal adjustment factors are directly applied to the component levels. For employment, individual 3-digit NAICS levels are seasonally adjusted, and higher level aggregates are formed by summing these components. Seasonally adjusted totals for hours and earnings are obtained by taking weighted averages of the seasonally adjusted data for the component series.

## Special model adjustments

Variable survey intervals. Beginning with the release of the 1995 benchmark, BLS refined the seasonal adjustment procedures to control for survey interval variations, sometimes referred to as the 4 - versus 5-week effect. Although the CES survey is referenced to a consistent concept - the pay period including the $12^{\text {th }}$ of each month - inconsistencies arise because there are sometimes 4 and sometimes 5 weeks between the week including the $12^{\text {th }}$ in a given pair of months. In highly seasonal industries, these variations can
be an important determinant of the magnitude of seasonal hires or layoffs that have occurred at the time the survey is taken, thereby complicating seasonal adjustment.

Standard seasonal adjustment methodology relies heavily on the experience of the most recent 3 years to determine the expected seasonal change in employment for each month of the current year. Prior to the implementation of the adjustment, the procedure did not distinguish between 4- and 5-week survey intervals, and the accuracy of the seasonal expectation depended in large measure on how well the current year's survey interval corresponded with those of the previous 3 years. All else the same, the greatest potential for distortion occurred when the current month being estimated had a 5-week interval but the 3 years preceding it were all 4-week intervals, or conversely when the current month had a 4-week interval but the 3 years preceding it were all 5-week intervals.

BLS adopted REGARIMA (regression with auto-correlated errors) modeling to identify the estimated size and significance of the calendar effect for each published series. REGARIMA combines standard regression analysis, which measures correlation among two or more variables, with ARIMA modeling, which describes and predicts the behavior of data series based on its own past history. For many economic time series, including nonfarm payroll employment, observations are auto-correlated over time; that is, each month's value is significantly dependent on the observations that precede it. These series, therefore, usually can be successfully fit using ARIMA models. If auto-correlated time series are modeled through regression analysis alone, the measured relationships among other variables of interest may be distorted due to the influence of the auto-correlation. Thus, the REGARIMA technique is
appropriate for measuring relationships among variables of interest in series that exhibit autocorrelation, such as nonfarm payroll employment.

In this application, the correlations of interest are those between employment levels in individual calendar months and the lengths of the survey intervals for those months. The REGARIMA models evaluate the variation in employment levels attributable to 11 separate survey interval variables, one specified for each month, except March. March is excluded because there are almost always 4 weeks between the February and March surveys. Models for individual basic series are fit with the most recent 10 years of data available, the standard time span used for CES seasonal adjustment.

The REGARIMA procedure yields regression coefficients for each of the 11 months specified in the model. These coefficients provide estimates of the strength of the relationship between employment levels and the number of weeks between surveys for the 11 modeled months. The X-12 ARIMA software also produces diagnostic statistics that permit the assessment of the statistical significance of the regression coefficients, and all series are reviewed for model adequacy.

Because the 11 coefficients derived from the REGARIMA models provide an estimate of the magnitude of variation in employment levels associated with the length of the survey interval, these coefficients are used to adjust the CES data to remove the calendar effect. These "filtered" series then are seasonally adjusted using the standard X-12 ARIMA software.

For a few series, REGARIMA models do not fit well; these series are seasonally adjusted with X-12 software but without the interval effect adjustment. There are several additional special effects modeled through the REGARIMA process; they are described below.

Construction series. Beginning with the 1996 benchmark revision, BLS utilized special treatment to adjust construction industry series. In the application of the interval effect modeling process to the construction series, there initially was difficulty in accurately identifying and measuring the effect because of the strong influence of variable weather patterns on employment movements in the industry. Further research allowed BLS to incorporate interval effect modeling for the construction industry by disaggregating the construction series into its finer industry and geographic estimating cells and tightening outlier designation parameters. This allowed a more precise identification of weather-related outliers that had masked the interval effect and clouded the seasonal adjustment patterns in general. With these outliers removed, interval effect modeling became feasible. The result is a seasonally adjusted series for construction that is improved because it is controlled for two potential distortions: unusual weather events and the 4- versus 5week effect.

Floating holidays. BLS is continuing the practice of making special adjustments for average weekly hours and average weekly overtime series to account for the presence or absence of religious holidays in the April survey reference period and the occurrence of Labor Day in the September reference period, back to the start date of each series.

Local government series. A special adjustment also is made in November each year to account for variations in employment due to the presence or absence of poll workers in the local government, excluding educational services series.

Refinements in hours and earnings seasonal adjustment. With the release of the 1997 benchmark, BLS implemented refinements to the seasonal adjustment process for the hours and earnings series to correct for distortions related to the method of accounting for the
varying length of payroll periods across months. There is a significant correlation between over-the-month changes in both the average weekly hour (AWH) and the average hourly earnings (AHE) series and the number of weekdays in a month, resulting in noneconomic fluctuations in these two series. Both AWH and AHE show more growth in "short" months (20 or 21 weekdays) than in "long" months (22 or 23 weekdays). The effect is stronger for the AWH than for the AHE series.

The calendar effect is traceable to response and processing errors associated with converting payroll and hours information from sample respondents with semi-monthly or monthly pay periods to a weekly equivalent. The response error comes from sample respondents reporting a fixed number of total hours for workers regardless of the length of the reference month, while the CES conversion process assumes that the hours reporting will be variable. A constant level of hours reporting most likely occurs when employees are salaried rather than paid by the hour, as employers are less likely to keep actual detailed hours records for such employees. This causes artificial peaks in the AWH series in shorter months that are reversed in longer months.

The processing error occurs when respondents with salaried workers report hours correctly (vary them according to the length of the month), which dictates that different conversion factors be applied to payroll and hours. The CES processing system uses the hours conversion factor for both fields, resulting in peaks in the AHE series in short months and reversals in long months.

REGARIMA modeling is used to identify, measure, and remove the length-of-pay-period effect for seasonally adjusted average weekly hours and average hourly earnings series. The length-of-pay-period variable proves significant for explaining AWH movements in all the service-providing industries except retail trade. For AHE, the length-of-pay-period variable is significant for wholesale trade, financial activities, professional and business services, and other services. All AWH series in the service-providing
industries except retail trade have been adjusted from January 1990 forward. The AHE series for wholesale trade, financial activities, professional and business services, and other services have been adjusted from January 1990 forward as well. For this reason, calculations of over-the-year change in the establishment hours and earnings series should use seasonally adjusted data.

The series to which the length-of-pay-period adjustment is applied are not subject to the 4 - versus 5 -week adjustment, as the modeling cannot support the number of variables that would be required in the regression equation to make both adjustments. See Exhibit 7 for series that have the calendar effects modeling described above.

Exhibit 7. Model specifications

| Seasonal Adjustment - AE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| NAICS <br> Tabcode | Tabcode title | Mode | 4/5 week adj | Other adj |
| 10113310 | Logging | MULT | X |  |
| 10211000 | Oil and gas extraction | MULT | X |  |
| 10212000 | Mining, except oil and gas | - | X | Indirect ${ }^{1}$ |
| 10212100 | Coal mining | MULT | X |  |
| 10213000 | Support activities for mining | ADD | X |  |
| 20236100 | Residential building | - | X | Indirect |
| 20236200 | Nonresidential building | - | X | Indirect |
| 20237000 | Heavy and civil engineering | ADD | X |  |


| construction |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 20238000 | Specialty trade contractors | - | X | Indirect |
| 20238001 | Residential specialty trade contractors | MULT | X | Raked ${ }^{2}$ |
| 20238002 | Nonresidential specialty trade contractors | MULT | X | Raked |
| 31321000 | Wood products | ADD | X |  |
| 31327000 | Nonmetallic mineral products | ADD | X |  |
| 31331000 | Primary metals | MULT | X |  |
| 31332000 | Fabricated metal products | ADD | X |  |
| 31333000 | Machinery | MULT | X |  |
| 31334000 | Computer and electronic products | - | X | Indirect |
| 31334100 | Computer and peripheral equipment | MULT | X |  |
| 31334200 | Communications equipment | ADD | X |  |
| 31334400 | Semiconductors and electronic components | MULT | X |  |
| 31334500 | Electronic instruments | ADD | X |  |
| 31335000 | Electrical equipment and appliances | MULT | X |  |
| 31336000 | Transportation equipment | MULT |  |  |
| 31336001 | Motor vehicles and parts | MULT |  |  |
| 31337000 | Furniture and related | MULT | X |  |


| products |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 31339000 | Miscellaneous manufacturing | MULT | X |  |
| 32311000 | Food manufacturing | MULT | X |  |
| 32312000 | Beverages and tobacco products | ADD | X |  |
| 32313000 | Textile mills | MULT | X |  |
| 32314000 | Textile product mills | ADD | X |  |
| 32315000 | Apparel | MULT | X |  |
| 32316000 | Leather and allied products | MULT | X |  |
| 32322000 | Paper and paper products | ADD | X |  |
| 32323000 | Printing and related support activities | MULT | X |  |
| 32324000 | Petroleum and coal products | MULT | X |  |
| 32325000 | Chemicals | MULT | X |  |
| 32326000 | Plastics and rubber products | MULT | X |  |
| 41423000 | Durable goods | MULT | X |  |
| 41424000 | Nondurable goods | MULT | X |  |
| 41425000 | Electronic markets and agents and brokers | MULT | X |  |
| 42441000 | Motor vehicle and parts dealers | ${ }^{-}$ | X | Indirect |
| 42441100 | Automobile dealers | MULT | X |  |
| 42442000 | Furniture and home furnishings stores | MULT | X |  |
| 42443000 | Electronics and appliance stores | MULT | X |  |
| 42444000 | Building material | MULT | X |  |


| and garden supply stores |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 42445000 | Food and beverage stores | MULT | X |  |
| 42446000 | Health and personal care stores | MULT | X |  |
| 42447000 | Gasoline stations | MULT | X |  |
| 42448000 | Clothing and clothing accessories stores | MULT | X |  |
| 42451000 | Sporting goods, hobby, book, and music stores | MULT | X |  |
| 42452000 | General merchandise stores | - | X | Indirect |
| 42452100 | Department stores | MULT | X |  |
| 42453000 | Miscellaneous store retailers | ADD | X |  |
| 42454000 | Nonstore retailers | MULT | X |  |
| 43481000 | Air transportation | MULT | X |  |
| 43482000 | Rail transportation | MULT | X |  |
| 43483000 | Water transportation | MULT | X |  |
| 43484000 | Truck transportation | ADD | X |  |
| 43485000 | Transit and ground passenger transportation | ADD |  |  |
| 43486000 | Pipeline transportation | MULT | X |  |
| 43487000 | Scenic and sightseeing transportation | MULT | X |  |
| 43488000 | Support activities for transportation | MULT | X |  |


| 43492000 | Couriers and messengers | ADD | X |  |
| :---: | :---: | :---: | :---: | :---: |
| 43493000 | Warehousing and storage | MULT | X |  |
| 44221000 | Utilities | MULT | X |  |
| 50511000 | Publishing industries, except Internet | MULT | X |  |
| 50512000 | Motion picture and sound recording industries | MULT | X |  |
| 50515000 | Broadcasting, except Internet | MULT | X |  |
| 50516000 | Internet publishing and broadcasting | MULT | X |  |
| 50517000 | Telecommunications | MULT | X |  |
| 50518000 | ISPs, search portals, and data processing | MULT | X |  |
| 50519000 | Other information services | MULT | X |  |
| 55521000 | Monetary authorities - central bank | MULT | X |  |
| 55522000 | Credit intermediation and related activities | - | X | Indirect |
| 55522100 | Depository credit intermediation | MULT | X |  |
| 55522110 | Commercial banking | MULT | X |  |
| 55523000 | Securities, commodity contracts, investments | MULT | X |  |
| 55524000 | Insurance carriers and related activities | MULT | X |  |


| 55525000 | Funds, trusts, and other financial vehicles | MULT | X |  |
| :---: | :---: | :---: | :---: | :---: |
| 55531000 | Real estate | ADD | X |  |
| 55532000 | Rental and leasing services | MULT | X |  |
| 55533000 | Lessors of nonfinancial intangible assets | MULT | X |  |
| 60541000 | Professional and technical services | - | X | Indirect |
| 60541100 | Legal services | MULT | X |  |
| 60541200 | Accounting and bookkeeping services | ADD | X |  |
| 60541300 | Architectural and engineering services | MULT | X |  |
| 60541500 | Computer systems design and related services | MULT | X |  |
| 60541600 | Management and technical consulting services | ADD | X |  |
| 60551000 | Management of companies and enterprises | MULT | X |  |
| 60561000 | Administrative and support services | - | X | Indirect |
| 60561300 | Employment services | MULT | X |  |
| 60561320 | Temporary help services | MULT | X |  |
| 60561400 | Business support | ADD | X |  |


| services |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 60561700 | Services to buildings and dwellings | MULT | X |  |
| 60562000 | Waste management and remediation services | MULT | X |  |
| 65611000 | Educational services | MULT | X |  |
| 65621000 | Ambulatory health care services | - | X | Indirect |
| 65621100 | Offices of physicians | ADD | X |  |
| 65621400 | Outpatient care centers | MULT | X |  |
| 65621600 | Home health care services | MULT | X |  |
| 65622000 | Hospitals | MULT | X |  |
| 65623000 | Nursing and residential care facilities | - | X | Indirect |
| 65623100 | Nursing care facilities | ADD | X |  |
| 65624000 | Social assistance | - | X | Indirect |
| 65624400 | Child day care services | ADD | X |  |
| 70711000 | Performing arts and spectator sports | MULT | X |  |
| 70712000 | Museums, historical sites, zoos, and parks | MULT | X |  |
| 70713000 | Amusements, gambling, and recreation | MULT | X |  |
| 70721000 | Accommodations | MULT | X |  |
| 70722000 | Food services and drinking places | ADD | X |  |


| 80811000 | Repair and <br> maintenance | ADD | X |  |
| :---: | :---: | :---: | :---: | :---: |
| 80812000 | Personal and laundry <br> services | MULT | X |  |
| 80813000 | Membership <br> associations and <br> organizations | ADD |  |  |
| 90911000 | Federal, except U.S. <br> Postal Service | MULT | X |  |
| 90919120 | U.S. Postal Service | MULT | X |  |
| 90921611 | State government <br> education | ADD | X |  |
| 90922000 | State government, <br> excluding education | MULT | X |  |
| 90931611 | Local government <br> education | ADD | X |  |
| 90932000 | Local government, <br> excluding education | ADD | X | Election <br> adjustment ${ }^{3}$ |


|  | Seasonal Adjustment - WW |  |  |
| :---: | :---: | :---: | :---: |
| NAICS <br> Tabcode |  | Mode | 4/5 <br> week <br> adj |
|  | Natural resources |  |  |
| and mining |  |  |  |$\quad$ Other adj


| 70720000 | Accommodations <br> and food services | MULT | X |  |
| :---: | :---: | :---: | :---: | :---: |
| 80000000 | Other services | MULT | X |  |
| 90910000 | Federal | MULT | X |  |
| 90920000 | State government | MULT | X |  |
| 90930000 | Local government | MULT | X | Election <br> adjustment |


| Seasonal Adjustment - PW |  |  |  |
| :--- | :---: | :--- | :--- |
| NAICS <br> Tabcode |  | Mode | 4/5 <br> week <br> adj |
|  | Natural resources |  |  |
| and mining |  |  |  |$\quad$ Other adj


| 32315000 | Apparel | MULT | X |
| :--- | :---: | :--- | :--- |
| 32316000 | Leather and allied <br> products | MULT | X |
| 32322000 | Paper and paper <br> products | ADD | X |
| 32323000 | Printing and related <br> support activities | MULT | X |
| 32324000 | Petroleum and coal <br> products | MULT | X |
| 32325000 | Chemicals | ADD | X |
| 32326000 | Plastics and rubber <br> products | MULT | X |
| 41420000 | Wholesale trade | MULT | X |
| 42000000 | Retail trade | MULT | X |
| 43000000 | Transportation and <br> warehousing | MULT | X |
| 44220000 | Utilities | MULT | X |
| 50000000 | Information | MULT | X |
| 55000000 | Financial activities | ADD | X |
| 60000000 | Professional and <br> business services | MULT | X |
| 65000000 | Education and health <br> services | MULT | X |
| 65620001 | Health care | MULT | X |
| 70000000 | Leisure and <br> hospitality | MULT | X |
| 80000000 | Other services | ADD | X |


| Seasonal Adjustment - AWH |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS <br> Tabcode |  | Mode | 4/5 week adj | $\begin{aligned} & \text { 10/11 day } \\ & \text { adj } \end{aligned}$ | $\begin{gathered} \hline \text { Easter/ } \\ \text { Labor } \\ \text { Day adj } \\ \hline \end{gathered}$ |
| 10000000 | Natural resources and mining | MULT | X |  | X |
| 20000000 | Construction | ADD | X |  | X |
| 31321000 | Wood products | MULT | X |  | X |
| 31327000 | Nonmetallic mineral products | MULT | X |  | X |
| 31331000 | Primary metals | MULT | X |  | X |
| 31332000 | Fabricated metal products | MULT | X |  | X |
| 31333000 | Machinery | MULT | X |  | X |
| 31334000 | Computer and electronic products | MULT | X |  | X |
| 31335000 | Electrical equipment and appliances | MULT | X |  | X |
| 31336000 | Transportation equipment | MULT | X |  | X |
| 31336001 | Motor vehicles and parts | MULT | X |  | X |
| 31337000 | Furniture and related products | MULT | X |  | X |
| 31339000 | Miscellaneous manufacturing | MULT | X |  | X |
| 32311000 | Food manufacturing | MULT | X |  | X |
| 32312000 | Beverages and tobacco products | ADD | X |  | X |
| 32313000 | Textile mills | MULT | X |  | X |
| 32314000 | Textile product mills | MULT | X |  | X |


| 32315000 | Apparel | MULT | X |  | X |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 32316000 | Leather and allied <br> products | MULT | X |  | X |
| 32322000 | Paper and paper <br> products | MULT | X |  | X |
| 32323000 | Printing and related <br> support activities | MULT | X |  | X |
| 32324000 | Petroleum and coal <br> products | MULT | X |  | X |
| 32325000 | Chemicals | MULT | X |  |  |
| 32326000 | Plastics and rubber <br> products | MULT | X |  | X |
| 41420000 | Wholesale trade | MULT |  | X | X |
| 42000000 | Retail trade | MULT |  | X |  |
| 43000000 | Transportation and <br> warehousing | MULT |  | X | X |
| 44220000 | Utilities | MULT | X | X |  |
| 50000000 | Information | MULT |  | X |  |
| 55000000 | Financial activities | MULT |  | X |  |
| 60000000 | Professional and <br> business services | MULT |  | X | X |
| 65000000 | Education and health <br> services | MULT |  | X |  |
| 65620001 | Health care | MULT |  | X |  |
| 70000000 | Leisure and <br> hospitality | MULT |  | X |  |
| 80000000 | Other services | MULT |  | X | X |


| Seasonal Adjustment - AHE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| NAICS <br> Tabcode |  | Mode | 4/5 week adj | $\begin{gathered} \text { 10/11 } \\ \text { day adj } \end{gathered}$ |
| 10000000 | Natural resources and mining | ADD | X |  |
| 20000000 | Construction | ADD | X |  |
| 31000000 | Durable goods | ADD | X |  |
| 32000000 | Nondurable goods | MULT | X |  |
| 41420000 | Wholesale trade | ADD |  | X |
| 42000000 | Retail trade | ADD | X |  |
| 43000000 | Transportation and warehousing | MULT | X |  |
| 44220000 | Utilities | MULT | X |  |
| 50000000 | Information | MULT | X |  |
| 55000000 | Financial activities | MULT |  | X |
| 60000000 | Professional and business services | MULT |  | X |
| 65000000 | Education and health services | MULT | X |  |
| 70000000 | Leisure and hospitality | ADD | X |  |
| 80000000 | Other services | MULT |  | X |


| Seasonal Adjustment Comparison - AOT |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS <br> Tabcode | Mode | 4/5 week <br> adj | 10/11 day <br> adj | Easter/ <br> Labor Day <br> adj |  |  |
| 31000000 | Durable goods | MULT | X | X |  |  |
| 32000000 | Nondurable goods | ADD | X | X |  |  |

${ }^{1}$ Seasonal adjustment occurs at the lowest available industry level.
${ }^{2}$ Residential and nonresidential specialty trade estimates are raked to the specialty trade estimates to ensure consistency.
${ }^{3}$ Special adjustment for the presence/absence of poll workers in local government

Table 1. Percent differences between nonfarm employment benchmarks and estimates by industry division, March 1996-2005 ${ }^{1}$

| I ndustry | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | $\left({ }^{2}\right)$ | 0.4 | $\left(^{2}\right)$ | 0.2 | 0.4 | -0.1 | -0.2 | -0.1 | 0.2 | -0.1 |
| Total Private | 0.1 | 0.5 | 0.1 | 0.2 | 0.3 | -0.2 | -0.4 | -0.2 | 0.2 | -0.2 |
| Government | -0.1 | -0.4 | -0.2 | 0.1 | 0.6 | 0.3 | 1.0 | 0.3 | 0.1 | ${ }^{(2)}$ |

(1) Differences are based on comparisons of final published March estimates and benchmark levels, as originally published.
(2) Less than 0.05 percent.

Table 2. Nonfarm employment benchmarks by industry, March 2005
(Numbers in thousands)

| I ndustry | Benchmark | Estimate | Difference |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Amount | Percent |
| Total nonfarm | 132,038 | 132,196 | -158 | -0.1 |
| Total private | 109,892 | 110,058 | -166 | -0.2 |
| Goods-producing | 21,640 | 21,654 | -14 | -0.1 |
| Service-providing | 110,398 | 110,542 | -144 | -0.1 |
| Private service-providing | 88,252 | 88,404 | -152 | -0.2 |
| Natural resources and mining | 602 | 604 | -2 | -0.3 |
| Logging | 64 | 65 | -1 | -1.6 |
| Mining | 539 | 540 | -1 | -0.2 |
| Oil and gas extraction | 124 | 123 | 1 | 0.8 |
| Mining, except oil and gas | 203 | 209 | -6 | -3.0 |
| Coal mining | 72 | 76 | -4 | -5.6 |
| Support activities for mining | 213 | 208 | 5 | 2.3 |
|  |  |  |  |  |


| Construction | 6,838 | 6,803 | 35 | 0.5 |
| :---: | :---: | :---: | :---: | :---: |
| Construction of buildings | 1,628 | 1,635 | -7 | -0.4 |
| Heavy and civil engineering construction | 842 | 827 | 15 | 1.8 |
| Specialty trade contractors | 4,369 | 4,341 | 28 | 0.6 |
| Manufacturing | 14,200 | 14,247 | -47 | -0.3 |
| Durable goods | 8,930 | 8,927 | 3 | ${ }^{1}$ ) |
| Wood products | 551 | 547 | 4 | 0.7 |
| Nonmetallic mineral products | 491 | 489 | 2 | 0.4 |
| Primary metals | 469 | 466 | 3 | 0.6 |
| Fabricated metal products | 1,511 | 1,513 | -2 | 0.4 |
| Machinery | 1,157 | 1,153 | 4 | 0.3 |
| Computer and electronic products | 1,312 | 1,323 | -11 | -0.8 |
| Computer and peripheral equipment | 205 | 211 | -6 | -2.9 |
| Communications equipment | 147 | 153 | -6 | -4.1 |
| Semiconductors and electronic components | 450 | 446 | 4 | 0.9 |
| Electronic instruments | 434 | 435 | -1 | -0.2 |
| Electrical equipment and appliances | 438 | 444 | -6 | -1.4 |
| Transportation equipment | 1,785 | 1,778 | 7 | 0.4 |
| Furniture and related products | 568 | 566 | 2 | 0.4 |
| Miscellaneous manufacturing | 649 | 649 | 0 | 0 |
| Nondurable goods | 5,270 | 5,320 | -50 | -0.9 |
| Food manufacturing | 1,458 | 1,470 | -12 | -0.8 |


| Beverages and tobacco products | 187 | 186 | 1 | 0.5 |
| :---: | :---: | :---: | :---: | :---: |
| Textile mills | 224 | 229 | -5 | -2.2 |
| Textile product mills | 172 | 178 | -6 | -3.5 |
| Apparel | 265 | 263 | 2 | 0.8 |
| Leather and allied products | 40 | 43 | -3 | -7.5 |
| Paper and paper products | 488 | 500 | -12 | -2.5 |
| Printing and related support activities | 648 | 655 | -7 | -1.1 |
| Petroleum and coal products | 109 | 113 | -4 | -3.7 |
| Chemicals | 877 | 878 | -1 | -0.1 |
| Plastics and rubber products | 802 | 805 | -3 | -0.4 |
| Trade, transportation, and utilities | 25,501 | 25,427 | 74 | 0.3 |
| Wholesale trade | 5,699 | 5,674 | 25 | 0.4 |
| Electronic markets and agents and brokers | 724 | 713 | 11 | 1.5 |
| Retail trade | 14,951 | 14,877 | 74 | 0.5 |
| Motor vehicle and parts dealers | 1,904 | 1,901 | 3 | 0.2 |
| Automobile dealers | 1,258 | 1,248 | 10 | 0.8 |
| Furniture and home furnishings stores | 567 | 557 | 10 | 1.8 |
| Electronics and appliance stores | 522 | 517 | 5 | 1.0 |
| Building material and garden supply stores | 1,243 | 1,240 | 3 | 0.2 |
| Food and beverage stores | 2,779 | 2,794 | -15 | -0.5 |
| Health and personal care stores | 941 | 943 | -2 | -0.2 |
| Gasoline stations | 860 | 865 | -5 | -0.6 |


| Clothing and clothing accessories stores | 1,354 | 1,346 | 8 | 0.6 |
| :---: | :---: | :---: | :---: | :---: |
| Sporting goods, hobby, book, and music stores | 628 | 621 | 7 | 1.1 |
| General merchandise stores | 2,847 | 2,784 | 63 | 2.2 |
| Department stores | 1,546 | 1,569 | -23 | -1.5 |
| Miscellaneous store retailers | 881 | 897 | -16 | -1.8 |
| Nonstore retailers | 425 | 412 | 13 | 3.1 |
| Transportation and warehousing | 4,298 | 4,303 | -5 | -0.1 |
| Air transportation | 504 | 505 | -1 | -0.2 |
| Rail transportation | 227 | 222 | 5 | 2.2 |
| Water transportation | 57 | 59 | -2 | -3.5 |
| Truck transportation | 1,360 | 1,356 | 4 | 0.3 |
| Transit and ground passenger transportation | 402 | 404 | -2 | -0.5 |
| Pipeline transportation | 38 | 39 | -1 | -2.6 |
| Scenic and sightseeing transportation | 22 | 21 | 1 | 4.5 |
| Support activities for transportation | 548 | 550 | -2 | -0.4 |
| Couriers and messengers | 564 | 576 | -12 | -2.1 |
| Warehousing and storage | 577 | 570 | 7 | 1.2 |
| Utilities | 554 | 574 | -20 | -3.6 |
| Information | 3,056 | 3,120 | -64 | -2.1 |
| Publishing industries, except Internet | 904 | 906 | -2 | -0.2 |
| Motion picture and sound recording industries | 364 | 377 | -13 | -3.6 |
| Broadcasting, except Internet | 325 | 331 | -6 | -1.8 |
| Internet publishing and broadcasting | 30 | 35 | -5 | -16.7 |


| Telecommunications | 1,003 | 1,028 | -25 | -2.5 |
| :---: | :---: | :---: | :---: | :---: |
| ISPs, search portals, and data processing | 379 | 394 | -15 | -4.0 |
| Other information services | 51 | 51 | 0 | 0 |
| Financial activities | 8,063 | 8,131 | -68 | -0.8 |
| Finance and insurance | 5,980 | 6,034 | -54 | -0.9 |
| Monetary authorities--central bank | 21 | 20 | 1 | 4.8 |
| Credit intermediation and related activities | 2,844 | 2,893 | -49 | -1.7 |
| Depository credit intermediation | 1,761 | 1,792 | -31 | -1.8 |
| Commercial banking | 1,292 | 1,306 | -14 | -1.1 |
| Securities, commodity contracts, investments | 783 | 785 | -2 | -0.3 |
| Insurance carriers and related activities | 2,244 | 2,250 | -6 | -0.3 |
| Funds, trusts, and other financial vehicles | 88 | 85 | 3 | 3.4 |
|  |  |  |  |  |
| Real estate and rental and leasing | 2,083 | 2,097 | -14 | -0.7 |
| Real estate | 1,419 | 1,426 | -7 | -0.5 |
| Rental and leasing services | 638 | 647 | -9 | -1.4 |
| Lessors of nonfinancial intangible assets | 26 | 24 | 2 | 7.7 |
|  |  |  |  |  |
| Professional and business services | 16,540 | 16,604 | -64 | -0.4 |
|  |  |  |  |  |
| Professional and technical services | 7,024 | 6,986 | 38 | 0.5 |
| Legal services | 1,157 | 1,153 | 4 | 0.3 |
| Accounting and bookkeeping services | 951 | 983 | -32 | -3.4 |
| Architectural and engineering services | 1,268 | 1,277 | -9 | -0.7 |
| Computer systems design and related services | 1,178 | 1,175 | 3 | 0.3 |
| Management and technical consulting services | 824 | 789 | 35 | 4.2 |
|  |  |  |  |  |


| Management of companies and enterprises | 1,739 | 1,718 | 21 | 1.2 |
| :---: | :---: | :---: | :---: | :---: |
| Administrative and waste services | 7,778 | 7,900 | 122 | -1.6 |
| Administrative and support services | 7,448 | 7,581 | -133 | -1.8 |
| Employment services | 3,376 | 3,510 | -134 | -4.0 |
| Temporary help services | 2,377 | 2,396 | -19 | -0.8 |
| Business support services | 767 | 757 | 10 | 1.3 |
| Services to buildings and dwellings | 1,600 | 1,601 | -1 | -0.1 |
| Waste management and remediation services | 330 | 319 | 11 | 3.3 |
|  |  |  |  |  |
| Education and health services | 17,355 | 17,360 | -5 | $\left({ }^{1}\right)$ |
|  |  |  |  |  |
| Educational services | 2,961 | 2,973 | -12 | -0.4 |
|  |  |  |  |  |
| Health care and social assistance | 14,395 | 14,387 | 8 | 0.1 |
| Ambulatory health care services | 5,049 | 5,030 | 19 | 0.4 |
| Offices of physicians | 2,070 | 2,089 | -19 | -0.9 |
| Outpatient care centers | 467 | 453 | 14 | 3.0 |
| Home health care services | 806 | 796 | 10 | 1.2 |
| Hospitals | 4,311 | 4,340 | -29 | -0.7 |
| Nursing and residential care facilities | 2,834 | 2,823 | 11 | 0.4 |
| Nursing care facilities | 1,573 | 1,569 | 4 | 0.3 |
| Social assistance | 2,201 | 2,194 | 7 | 0.3 |
| Child day care services | 791 | 799 | -8 | -1.0 |
|  |  |  |  |  |
| Leisure and hospitality | 12,365 | 12,321 | 44 | 0.4 |
|  |  |  |  |  |
| Arts, entertainment, and recreation | 1,707 | 1,655 | 52 | 3.0 |
| Performing arts and spectator sports | 350 | 342 | 8 | 2.3 |
| Museums, historical sites, zoos, and parks | 112 | 108 | 4 | 3.6 |


| Amusements, gambling, and recreation | 1,245 | 1,204 | 41 | 3.3 |
| :---: | :---: | :---: | :---: | :---: |
| Accommodations and food services | 10,657 | 10,667 | -10 | -0.1 |
| Accommodations | 1,748 | 1,769 | -21 | -1.2 |
| Food services and drinking places | 8,909 | 8,898 | 11 | 0.1 |
| Other services | 5,372 | 5,441 | -69 | -1.3 |
| Repair and maintenance | 1,239 | 1,235 | 4 | 0.3 |
| Personal and laundry services | 1,270 | 1,274 | -4 | -0.3 |
| Membership associations and organizations | 2,863 | 2,933 | -70 | -2.4 |
| Government | 22,146 | 22,138 | 8 | ${ }^{1}$ ) |
| Federal | 2,716 | 2,709 | 7 | 0.3 |
| Federal, except U.S. Postal Service | 1,946 | 1,932 | 14 | 0.7 |
| U.S. Postal Service | 770 | 777 | -7 | -0.9 |
| State government | 5,157 | 5,168 | -11 | -0.2 |
| State government education | 2,397 | 2,433 | -36 | -1.5 |
| State government, excluding education | 2,760 | 2,736 | 24 | 0.9 |
| Local government | 14,273 | 14,261 | 12 | 0.1 |
| Local government education | 8,186 | 8,177 | 9 | 0.1 |
| Local government, excluding education | 6,088 | 6,084 | 4 | 0.1 |
|  |  |  |  |  |

${ }^{(1)}$ Less than 0.05 percent.

Table 3. Differences in seasonally adjusted levels and over-the-month changes, total nonfarm employment, J anuary 2005-October 2005
(In thousands)

|  | Levels |  | Over-the-month changes |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | As previously <br> published | As revised | As previously published | As revised | Difference |  |
| 2005: |  |  |  |  |  |  |
| January | 132,573 | 132,471 |  | 124 | 76 | -48 |
| February | 132,873 | 132,736 | 132,876 | 300 | 265 | -35 |
| March | 132,995 | 133,287 | 133,413 | 133,588 | 133,210 | 122 |

(p): Preliminary

Table 4. Hours and earnings estimates, selected industries, March 2005

| I ndustry | Average weekly hours | Average hourly earnings |
| :---: | :---: | :---: |
| Total private | 33.4 | \$15.95 |
| Goods-producing | 39.6 | 17.37 |
| Natural resources and mining | 44.9 | 18.33 |
| Construction | 37.8 | 19.24 |
| Manufacturing | 40.4 | 16.42 |
| Durable goods | 40.8 | 17.16 |
| Wood products | 39.2 | 13.13 |
| Nonmetallic mineral products | 41.1 | 16.30 |
| Primary metals | 43.0 | 18.76 |
| Fabricated metal products | 40.6 | 15.63 |
| Machinery | 42.2 | 17.03 |
| Computer and electronic products | 39.5 | 17.96 |
| Electrical equipment and appliances | 40.0 | 15.11 |


| Transportation equipment | 42.2 | 21.83 |
| :---: | :---: | :---: |
| Furniture and related products | 39.4 | 13.36 |
| Miscellaneous manufacturing | 39.0 | 14.03 |
| Nondurable goods | 39.6 | 15.19 |
| Food manufacturing | 38.2 | 13.01 |
| Beverages and tobacco products | 39.9 | 18.99 |
| Textile mills | 40.3 | 12.26 |
| Textile product mills | 39.6 | 11.57 |
| Apparel | 36.3 | 10.07 |
| Leather and allied products | 37.6 | 11.48 |
| Paper and paper products | 41.7 | 17.95 |
| Printing and related support activities | 38.4 | 15.68 |
| Petroleum and coal products | 44.6 | 24.80 |
| Chemicals | 42.3 | 19.48 |
| Plastics and rubber products | 39.8 | 14.71 |
| Private service-providing | 32.1 | 15.58 |


| Trade, transportation, and utilities | 33.2 | 14.86 |
| :--- | :---: | :---: |
| Wholesale trade | 37.5 | 17.88 |
| Retail trade | 30.3 | 12.35 |
| Transportation and warehousing | 36.8 | 16.59 |
| Utilities | 40.1 | 26.31 |
| Information | 36.2 | 21.64 |
| Financial activities | 35.6 | 17.76 |
| Professional and business services | 33.9 | 17.89 |
| Education and health services | 32.4 | 16.50 |
| Leisure and hospitality | 25.4 | 9.08 |
| Other services | 30.7 | 14.18 |

Text Table A. Net Birth/Death Estimates, Post-Benchmark 2005

|  | Natural Resources \& Mining | Construction | Manufacturing | Trade, Transportation, \& Utilities | Information | Financial Activities | Professional \& Business Services | Education \& Health Services |  <br> Hospitality | Other Services | Monthly Amount Contributed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| April | -2 | 34 | 1 | 11 | -5 | -3 | 64 | 21 | 90 | -5 | 206 |
| May | 1 | 38 | 8 | 24 | 4 | 2 | 19 | 14 | 75 | 6 | 191 |
| June | 1 | 29 | 8 | 22 | 0 | 5 | 25 | -1 | 81 | 6 | 176 |
| July | 1 | -11 | -21 | -22 | -6 | -9 | -15 | -11 | 32 | -10 | -72 |
| August | 1 | 16 | 0 | 23 | 4 | 8 | 23 | 19 | 27 | 4 | 125 |
| September | 1 | 11 | 6 | 20 | -2 | 4 | 13 | 19 | -25 | 3 | 50 |
| October | 1 | 0 | -4 | 14 | 9 | 24 | 35 | 20 | -42 | 0 | 57 |
| November | -1 | -6 | 1 | 14 | 4 | 5 | 4 | 8 | -9 | 1 | 21 |
| December | 0 | -5 | 2 | 19 | 1 | 13 | 10 | 5 | 15 | 3 | 63 |
| Cumulative <br> Total | 3 | 106 | 1 | 125 | 9 | 49 | 178 | 94 | 244 | 8 | 817 |

