



ECONOMICS
AND
STATISTICS
ADMINISTRATION

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NOVEMBER 2003 CONSTRUCTION AT \$934.5 BILLION ANNUAL RATE

Construction put in place spending during November 2003 was estimated at a seasonally adjusted annual rate of \$934.5 billion, 1.2 (± 1.4) percent above the revised October estimate of \$923.8 billion, according to the U.S. Commerce Department's Census Bureau. The November figure is 7.4 (± 1.9) percent above the November 2002 estimate of \$870.0 billion.

During the first 11 months of this year, construction spending amounted to \$828.1 billion, 4.1 (± 1.4) percent above the \$795.7 billion for the same period in 2002.

PRIVATE CONSTRUCTION

Spending on private construction was at a rate of \$710.8 billion, 1.2 (± 1.6) percent above the revised October estimate of \$702.4 billion. Residential construction was at a seasonally adjusted annual rate of \$495.7 billion in November, 2.0 (± 1.6) percent above the revised October estimate of \$486.2 billion.

PUBLIC CONSTRUCTION

In November, the estimated seasonally adjusted annual rate of public construction spending was \$223.7 billion, 1.0 (± 2.2) percent above the revised October estimate of \$221.4 billion. Educational construction was at a seasonally adjusted annual rate of \$58.2 billion, 0.4 (± 3.5) percent below the revised October estimate of \$58.5 billion. Highway construction was at a seasonally adjusted annual rate of \$66.5 billion, 4.1 (± 5.3) percent above the revised October estimate of \$63.9 billion.

December 2003 data will be released on February 2, 2004 at 10:00 AM EST.

EXPLANATORY NOTES

In interpreting changes in the statistics in this release, note that month-to-month changes in seasonally adjusted statistics often show movements which may be irregular. It may take 2 months to establish an underlying trend for total construction and as long as 8 months for specific categories of construction.

The statistics in this release are estimated from several sources and surveys and are subject to sampling variability as well as nonsampling errors including bias and variance from response, nonreporting, and undercoverage. Estimates of the standard errors are provided in Table 3. Whenever a statement such as "2.3 (± 3.1) percent above" appears in the text, this indicates the range (-0.8 to +5.4 percent) in which the actual percent change is likely to have occurred. All ranges given are 90 percent confidence intervals. If the range contains zero, it is uncertain whether there was an increase or decrease; that is, the change was not statistically significant. For any comparison cited without a confidence interval, the change is statistically significant. Statistics for the current month are preliminary estimates subject to revision in following months as additional data become available. The average absolute percent changes from preliminary estimate to first revision for the major seasonally adjusted components are as follows: total construction, 0.7 percent; private construction, 0.7 percent; and public construction, 1.6 percent.

More detailed data and a discussion of methodologies appear at our website: <http://www.census.gov/constructionspending>

Table 1. Value of Construction Put in Place in the United States, Seasonally Adjusted Annual Rate
(Millions of dollars. Details may not add to totals due to rounding.)

| Type of Construction | Nov 2003 ^P | Oct 2003 ^r | Sep 2003 ^r | Aug 2003 | Jul 2003 | Nov 2002 | Percent change Nov 2003 from - | |
|--|-----------------------|-----------------------|-----------------------|----------------|----------------|----------------|-----------------------------------|------------|
| | | | | | | | Oct 2003 | Nov 2002 |
| Total Construction | 934,515 | 923,803 | 913,824 | 901,387 | 892,599 | 869,990 | 1.2 | 7.4 |
| Residential | 501,583 | 492,199 | 481,735 | 473,230 | 463,154 | 440,108 | 1.9 | 14.0 |
| Lodging | 10,883 | 10,963 | 10,723 | 10,771 | 10,241 | 9,839 | -0.7 | 10.6 |
| Office | 41,237 | 40,717 | 40,355 | 39,912 | 39,341 | 43,052 | 1.3 | -4.2 |
| Commercial | 61,811 | 61,555 | 62,636 | 63,226 | 63,059 | 60,968 | 0.4 | 1.4 |
| Health care | 29,107 | 29,614 | 29,518 | 29,582 | 29,753 | 30,245 | -1.7 | -3.8 |
| Educational | 70,748 | 71,294 | 71,278 | 71,544 | 73,639 | 72,296 | -0.8 | -2.1 |
| Religious | 8,396 | 8,627 | 8,569 | 8,369 | 8,531 | 8,124 | -2.7 | 3.3 |
| Public safety | 8,555 | 8,792 | 8,665 | 8,877 | 9,121 | 8,429 | -2.7 | 1.5 |
| Amusement and recreation | 19,835 | 19,669 | 18,751 | 18,371 | 19,555 | 18,234 | 0.8 | 8.8 |
| Transportation | 24,661 | 24,521 | 24,152 | 24,419 | 24,187 | 25,480 | 0.6 | -3.2 |
| Communication | 16,277 | 15,256 | 14,961 | 15,556 | 16,061 | 16,595 | 6.7 | -1.9 |
| Power | 34,845 | 36,206 | 37,332 | 33,486 | 35,871 | 36,760 | -3.8 | -5.2 |
| Highway and street | 66,682 | 64,073 | 64,900 | 62,931 | 60,070 | 59,798 | 4.1 | 11.5 |
| Sewage and waste disposal | 12,887 | 13,112 | 12,943 | 13,167 | 12,719 | 11,614 | -1.7 | 11.0 |
| Water supply | 9,580 | 9,318 | 9,492 | 9,837 | 9,707 | 9,410 | 2.8 | 1.8 |
| Conservation and development | 3,559 | 3,836 | 3,695 | 3,969 | 3,893 | 4,106 | -7.2 | -13.3 |
| Manufacturing | 13,870 | 14,051 | 14,119 | 14,142 | 13,697 | 14,932 | -1.3 | -7.1 |
| Total Private Construction ¹ | 710,816 | 702,368 | 692,462 | 681,226 | 674,297 | 656,413 | 1.2 | 8.3 |
| Residential | 495,745 | 486,195 | 475,716 | 466,782 | 457,079 | 434,446 | 2.0 | 14.1 |
| Lodging | 9,565 | 9,661 | 9,414 | 9,506 | 9,240 | 9,032 | -1.0 | 5.9 |
| Office | 31,054 | 30,286 | 29,812 | 29,114 | 28,513 | 33,242 | 2.5 | -6.6 |
| Commercial | 56,674 | 56,315 | 57,041 | 58,350 | 58,200 | 56,875 | 0.6 | -0.4 |
| Health care | 23,396 | 23,818 | 23,374 | 23,572 | 23,780 | 24,645 | -1.8 | -5.1 |
| Educational | 12,503 | 12,821 | 13,544 | 13,510 | 13,633 | 13,270 | -2.5 | -5.8 |
| Religious | 8,392 | 8,626 | 8,565 | 8,362 | 8,520 | 8,114 | -2.7 | 3.4 |
| Amusement and recreation | 7,931 | 7,870 | 7,278 | 7,006 | 7,262 | 6,940 | 0.8 | 14.3 |
| Transportation | 6,077 | 6,263 | 6,493 | 6,340 | 6,398 | 6,879 | -3.0 | -11.7 |
| Communication | 16,074 | 15,181 | 14,854 | 15,424 | 15,909 | 16,527 | 5.9 | -2.7 |
| Power | 28,271 | 29,929 | 30,918 | 27,837 | 30,843 | 30,654 | -5.5 | -7.8 |
| Manufacturing | 13,775 | 13,996 | 13,960 | 14,070 | 13,623 | 14,630 | -1.6 | -5.8 |
| Total Public Construction ² | 223,699 | 221,435 | 221,362 | 220,161 | 218,303 | 213,577 | 1.0 | 4.7 |
| Residential | 5,838 | 6,005 | 6,019 | 6,448 | 6,076 | 5,662 | -2.8 | 3.1 |
| Office | 10,183 | 10,431 | 10,543 | 10,798 | 10,828 | 9,810 | -2.4 | 3.8 |
| Commercial | 5,137 | 5,240 | 5,595 | 4,876 | 4,859 | 4,093 | -2.0 | 25.5 |
| Health care | 5,711 | 5,796 | 6,145 | 6,010 | 5,973 | 5,602 | -1.5 | 1.9 |
| Educational | 58,244 | 58,473 | 57,734 | 58,034 | 60,006 | 59,026 | -0.4 | -1.3 |
| Public safety | 8,287 | 8,456 | 8,350 | 8,536 | 8,810 | 8,168 | -2.0 | 1.5 |
| Amusement and recreation | 11,905 | 11,798 | 11,472 | 11,365 | 12,293 | 11,294 | 0.9 | 5.4 |
| Transportation | 18,585 | 18,259 | 17,659 | 18,079 | 17,789 | 18,600 | 1.8 | -0.1 |
| Power | 6,574 | 6,277 | 6,414 | 5,649 | 5,028 | 6,107 | 4.7 | 7.6 |
| Highway and street | 66,546 | 63,907 | 64,643 | 62,764 | 59,841 | 59,697 | 4.1 | 11.5 |
| Sewage and waste disposal | 12,367 | 12,728 | 12,491 | 12,781 | 12,440 | 11,428 | -2.8 | 8.2 |
| Water supply | 9,186 | 8,855 | 9,080 | 9,414 | 9,264 | 8,910 | 3.7 | 3.1 |
| Conservation and development | 3,516 | 3,777 | 3,639 | 3,935 | 3,858 | 4,067 | -6.9 | -13.5 |

^P Preliminary ^r Revised

¹ Includes the following categories of private construction not shown separately: public safety, highway and street, sewage and waste disposal, water supply, and conservation and development

² Includes the following categories of public construction not shown separately: lodging, religious, communication, and manufacturing.

Table 2. Value of Construction Put in Place in the United States, Not Seasonally Adjusted

(Millions of dollars. Details may not add to totals due to rounding.)

| Type of Construction | Nov 2003 ^P | Oct 2003 ^r | Sep 2003 ^r | Aug 2003 | Jul 2003 | Nov 2002 | Year-to-date | | Percent change |
|--|-----------------------|-----------------------|-----------------------|---------------|---------------|---------------|----------------|----------------|----------------|
| | | | | | | | Nov 2003 | Nov 2002 | |
| Total Construction | 80,239 | 84,356 | 85,193 | 84,597 | 82,631 | 74,423 | 828,147 | 795,685 | 4.1 |
| Residential | 43,885 | 45,021 | 44,227 | 44,414 | 43,324 | 37,981 | 433,889 | 395,192 | 9.8 |
| Lodging | 907 | 914 | 894 | 898 | 853 | 820 | 9,954 | 10,006 | -0.5 |
| Office | 3,494 | 3,541 | 3,583 | 3,433 | 3,323 | 3,678 | 36,767 | 41,524 | -11.5 |
| Commercial | 5,278 | 5,531 | 5,747 | 5,668 | 5,541 | 5,205 | 56,366 | 57,753 | -2.4 |
| Health care | 2,449 | 2,545 | 2,551 | 2,447 | 2,470 | 2,571 | 27,132 | 25,154 | 7.9 |
| Educational | 5,644 | 6,160 | 6,666 | 7,220 | 7,099 | 5,743 | 66,155 | 65,330 | 1.3 |
| Religious | 743 | 780 | 758 | 768 | 732 | 717 | 7,793 | 7,587 | 2.7 |
| Public safety | 764 | 793 | 797 | 778 | 749 | 766 | 7,806 | 8,061 | -3.2 |
| Amusement and recreation | 1,672 | 1,744 | 1,684 | 1,583 | 1,649 | 1,559 | 17,641 | 17,442 | 1.1 |
| Transportation | 2,152 | 2,264 | 2,266 | 2,266 | 2,133 | 2,232 | 22,580 | 22,914 | -1.5 |
| Communication | 1,358 | 1,429 | 1,306 | 1,306 | 1,414 | 1,469 | 14,056 | 16,515 | -14.9 |
| Power | 2,878 | 3,184 | 3,334 | 2,985 | 3,362 | 3,142 | 33,213 | 32,828 | 1.2 |
| Highway and street | 5,586 | 6,816 | 7,616 | 7,141 | 6,487 | 5,051 | 57,947 | 56,655 | 2.3 |
| Sewage and waste disposal | 1,116 | 1,226 | 1,232 | 1,214 | 1,143 | 1,021 | 11,715 | 11,110 | 5.4 |
| Water supply | 837 | 863 | 873 | 877 | 832 | 833 | 8,819 | 8,500 | 3.8 |
| Conservation and development | 304 | 311 | 428 | 363 | 333 | 356 | 3,418 | 3,437 | -0.6 |
| Manufacturing | 1,173 | 1,236 | 1,234 | 1,238 | 1,189 | 1,280 | 12,899 | 15,677 | -17.7 |
| Total Private Construction ¹ | 61,517 | 63,534 | 62,622 | 62,712 | 61,941 | 56,478 | 627,445 | 600,900 | 4.4 |
| Residential | 43,391 | 44,491 | 43,650 | 43,862 | 42,809 | 37,496 | 428,378 | 389,622 | 9.9 |
| Lodging | 797 | 805 | 785 | 792 | 770 | 753 | 8,961 | 9,547 | -6.1 |
| Office | 2,658 | 2,651 | 2,596 | 2,495 | 2,406 | 2,850 | 27,272 | 32,574 | -16.3 |
| Commercial | 4,842 | 5,079 | 5,171 | 5,242 | 5,134 | 4,856 | 52,019 | 54,150 | -3.9 |
| Health care | 1,964 | 2,058 | 1,974 | 1,962 | 1,972 | 2,090 | 21,774 | 20,254 | 7.5 |
| Educational | 1,010 | 1,078 | 1,155 | 1,289 | 1,282 | 1,076 | 12,224 | 12,070 | 1.3 |
| Religious | 742 | 780 | 758 | 768 | 731 | 716 | 7,761 | 7,583 | 2.3 |
| Amusement and recreation | 660 | 684 | 616 | 589 | 615 | 574 | 6,527 | 6,880 | -5.1 |
| Transportation | 528 | 575 | 593 | 595 | 585 | 629 | 6,146 | 6,473 | -5.1 |
| Communication | 1,341 | 1,424 | 1,295 | 1,295 | 1,402 | 1,463 | 13,946 | 16,435 | -15.1 |
| Power | 2,296 | 2,549 | 2,668 | 2,463 | 2,939 | 2,616 | 28,545 | 28,919 | -1.3 |
| Manufacturing | 1,165 | 1,231 | 1,221 | 1,233 | 1,183 | 1,254 | 12,811 | 15,434 | -17.0 |
| Total Public Construction ² | 18,722 | 20,822 | 22,570 | 21,886 | 20,690 | 17,945 | 200,702 | 194,786 | 3.0 |
| Residential | 494 | 530 | 577 | 552 | 515 | 485 | 5,511 | 5,569 | -1.0 |
| Office | 836 | 891 | 987 | 938 | 917 | 828 | 9,494 | 8,950 | 6.1 |
| Commercial | 436 | 452 | 576 | 427 | 407 | 350 | 4,346 | 3,603 | 20.6 |
| Health care | 485 | 487 | 576 | 485 | 498 | 481 | 5,358 | 4,900 | 9.3 |
| Educational | 4,634 | 5,082 | 5,511 | 5,931 | 5,817 | 4,667 | 53,930 | 53,260 | 1.3 |
| Public safety | 742 | 765 | 770 | 749 | 723 | 738 | 7,626 | 7,840 | -2.7 |
| Amusement and recreation | 1,012 | 1,060 | 1,068 | 994 | 1,034 | 985 | 11,114 | 10,562 | 5.2 |
| Transportation | 1,624 | 1,689 | 1,673 | 1,672 | 1,548 | 1,603 | 16,434 | 16,442 | 0.0 |
| Power | 583 | 634 | 666 | 522 | 423 | 527 | 4,669 | 3,909 | 19.4 |
| Highway and street | 5,572 | 6,801 | 7,590 | 7,124 | 6,464 | 5,039 | 57,805 | 56,552 | 2.2 |
| Sewage and waste disposal | 1,069 | 1,188 | 1,189 | 1,176 | 1,116 | 1,005 | 11,412 | 10,872 | 5.0 |
| Water supply | 801 | 819 | 832 | 835 | 795 | 787 | 8,396 | 8,127 | 3.3 |
| Conservation and development | 301 | 306 | 423 | 360 | 330 | 352 | 3,384 | 3,416 | -0.9 |

^P Preliminary ^r Revised

¹ Includes the following categories of private construction not shown separately: public safety, highway and street, sewage and waste disposal, water supply, and conservation and development

² Includes the following categories of public construction not shown separately: lodging, religious, communication, and manufacturing.

Table 3. Coefficients of Variation and Standard Errors by Type of Construction
(Percent)

| Type of Construction | Coefficient of variation | | Standard error | | |
|-----------------------------------|--------------------------|-----------------------|---------------------|-----------------------|---------------------------------------|
| | Monthly estimate | Year-to-date estimate | Year-to-date change | Month-to-month change | Month-to-month change from prev. year |
| Total Construction | 1.0 | 0.6 | 0.9 | 0.9 | 1.2 |
| Residential | 3.7 | 2.4 | 4.0 | 2.3 | 4.8 |
| Lodging | 3.8 | 3.2 | 3.4 | 2.1 | 4.3 |
| Office | 3.0 | 2.0 | 2.2 | 2.2 | 4.1 |
| Commercial | 2.5 | 1.5 | 2.4 | 2.1 | 2.8 |
| Health care | 3.0 | 2.5 | 2.8 | 1.4 | 3.1 |
| Educational | 2.3 | 1.5 | 2.0 | 1.9 | 2.7 |
| Religious | 4.3 | 3.0 | 3.9 | 2.0 | 5.5 |
| Public safety | 3.2 | 2.5 | 3.0 | 2.5 | 4.3 |
| Amusement and recreation | 3.5 | 2.7 | 2.9 | 2.1 | 4.7 |
| Transportation | 2.7 | 2.0 | 2.3 | 2.6 | 3.4 |
| Communication | NA | NA | NA | NA | NA |
| Power | 1.6 | 0.7 | 0.9 | 1.5 | 1.2 |
| Highway and street | 3.7 | 1.8 | 3.1 | 3.3 | 5.2 |
| Sewage and waste disposal | 4.1 | 2.6 | 3.6 | 3.1 | 5.2 |
| Water supply | 4.3 | 2.4 | 3.4 | 3.6 | 5.8 |
| Conservation and development | 4.1 | 2.9 | 3.8 | 3.2 | 4.0 |
| Manufacturing | 4.0 | 2.5 | 2.6 | 2.4 | 3.5 |
| Total Private Construction | 1.2 | 0.9 | 1.1 | 1.0 | 1.4 |
| Residential | 5.0 | 1.1 | 1.3 | 1.0 | 1.4 |
| Lodging | 3.9 | 3.2 | 3.3 | 2.0 | 4.4 |
| Office | 3.8 | 2.5 | 2.6 | 2.8 | 4.9 |
| Commercial | 2.6 | 1.5 | 2.4 | 2.2 | 2.8 |
| Health care | 3.6 | 3.1 | 3.3 | 1.6 | 3.6 |
| Educational | 4.0 | 2.7 | 3.7 | 2.6 | 4.3 |
| Religious | 4.4 | 3.0 | 3.9 | 2.0 | 5.5 |
| Amusement and recreation | 5.3 | 4.7 | 5.5 | 3.4 | 7.8 |
| Transportation | 9.3 | 7.6 | 6.9 | 8.3 | 7.7 |
| Communication | NA | NA | NA | NA | NA |
| Power | 1.5 | 0.9 | 1.1 | 1.0 | 1.4 |
| Manufacturing | 4.0 | 2.5 | 2.6 | 2.4 | 3.5 |
| Total Public Construction | 1.4 | 0.8 | 1.3 | 1.4 | 1.9 |
| Residential | 3.7 | 2.4 | 4.0 | 2.3 | 4.8 |
| Office | 3.6 | 2.5 | 3.2 | 2.5 | 3.9 |
| Commercial | 10.8 | 7.7 | 11.8 | 6.1 | 16.4 |
| Health care | 4.2 | 3.1 | 4.3 | 2.0 | 5.8 |
| Educational | 2.7 | 1.7 | 2.3 | 2.2 | 3.2 |
| Public safety | 3.1 | 2.5 | 2.9 | 2.6 | 4.1 |
| Amusement and recreation | 4.5 | 3.3 | 3.2 | 2.6 | 5.8 |
| Transportation | 2.8 | 2.0 | 2.4 | 2.7 | 3.8 |
| Power | 12.9 | 3.7 | 11.6 | 6.8 | 11.7 |
| Highway and street | 3.7 | 1.8 | 3.1 | 3.3 | 5.2 |
| Sewage and waste disposal | 4.1 | 2.6 | 3.6 | 3.2 | 5.2 |
| Water supply | 4.4 | 2.5 | 3.5 | 3.7 | 6.1 |
| Conservation and development | 4.1 | 2.9 | 3.8 | 3.3 | 4.1 |

NA Not applicable