

# Introduction

---

## PURPOSE

This numerical list includes the principal products and services of the manufacturing and mining industries in the United States. The data for these products and services were collected in the 2002 Economic Census - Manufacturing on 263 long forms (MC-31101 through MC-33917) and 29 short forms (MC-31171 through MC-33975) and in the 2002 Economic Census - Mining on 15 long forms (MI-21101 through MI-21302) and 2 short forms (MI-21171 and MI-21271). Each report covers one industry or more and includes a product inquiry which lists the primary products of the industries as well as the chief secondary products frequently reported by establishments classified in the industries on the form.

There are approximately 6,100 products (ten-digit codes) for which information is published in the manufacturing and mining sectors. Approximately 3,400 of these products are collected in the Census Bureau's Current Industrial Reports (CIR) program. Where CIR product detail is available, the census questionnaire requests only broad aggregates that can be "tied in" with the product detail in the CIR program. The new system contains about 1,500 manufacturing and mining product classes (seven-digit codes).

## PRODUCT CODING SYSTEM

NAICS United States industries are identified by a six-digit code. The longer code accommodates the large number of sectors and allows more flexibility in designing subsectors. Each product or service is assigned a ten-digit code. The product coding structure represents an extension, by the U.S. Census Bureau, of the six-digit industry classifications of the manufacturing and mining sectors. The classification system operates so that the industrial coverage is progressively narrower with the successive addition of digits. This is illustrated as follows:

NAICS level	NAICS code	Description
Sector .....	31-33	Manufacturing
Subsector .....	334	Computer and electronic product manufacturing
Industry group .....	3346	Manufacturing and reproducing of magnetic and optical media
Industry .....	33461	Manufacturing and reproduction of magnetic and optical media
U.S. Industry .....	334612	Prerecorded compact disc (except software), tape, and record reproducing
Product class .....	3346120	Reproduction of recording media
BLS link code .....	3346120X	
Product code .....	3346120XXX	

## COMPARABILITY BETWEEN 2002 AND 1997

This manual attempts to preserve the historical comparability between the 2002 and 1997 censuses for product classes and product codes in Appendixes E and F.

## Appendix E (2002 to 1997)

2002 published	2002 collected	1997 published
311211B pt .....	311211D	311211D
311211B111 .....	311211D111	311211D111
311211B121 .....	311211D121	311211D121
3112113131 .....	3114234141	3114234141

The content of 2002 product class 311211B was collected on the 2002 questionnaire as product class 311211D and its content is the same as it was published in 1997.

Product code 311211B131 was collected on the 2002 questionnaire as product 3114234141 and its content is the same as it was published in 1997.

## Appendix F (1997 to 2002)

1997 published	2002 collected	2002 published
311211D .....	311211D	311211B pt
311211D111 .....	311211D111	311211B111
311211D121 .....	311211D121	311211B121

## CURRENT INDUSTRIAL REPORTS

The 2002 Economic Census - Manufacturing, as in earlier censuses, utilizes the tieline relationship for reporting summary information in the census where product detail is being reported for the same period in a CIR or, in a few instances, surveys conducted by other Federal Government agencies. The product detail that is collected monthly, quarterly, or annually in the CIR is not duplicated in the economic census - manufacturing. Instead, a single (tieline) code is collected in the census that corresponds to the sum of the detail appearing if the CIR is used. The products collected in the CIR have been integrated into the main table with the census ten-digit product codes, however, a CIR survey flag has been placed beside the description which identifies the related CIR Report. Appendix B shows those CIR ten-digit product codes collected that are not integratable into the main table.

## FORMAT OF MANUAL

The product code column, which includes codes used in the 2002 publications, is based on the NAICS structure. The ninth and tenth digits of the product code taken together are unique and identify the product. (Occasionally, the ninth digit will be similar for a group of related products within the same product class but the ninth digit by itself is not significant.)

These product and service codes are arrayed (generally) in ascending numerical order within their respective seven-digit product classes: the product classes within their six-digit U.S. industries; where applicable, six-digit U.S. industries within the respective five-digit industry grouping; and five-digit industry groupings within three-digit NAICS subsectors. NAICS subsectors, industry groupings, and U.S. industries are titled in accordance with the long NAICS titles shown in Part II, Numerical List of Short Titles, *North American Industrial Classification System*, 2002. Descriptions of product classes, eight-digit BLS link codes, and ten-digit products have been developed by the U.S. Census Bureau. capital letters.

This manual contains six appendixes. Appendix A lists the Current Industrial Reports by survey name and title and shows the publication periods. Appendix B shows CIR Product Codes that were not integrated into the main table. Appendix C contains codes used on the census forms to collect miscellaneous detailed statistics data for selected nonmanufacturing and nonmining activities. Appendix D lists product class and product codes for products that are primary to more than one industry. Appendixes E and F illustrate the relationship between the 2002 and 1997, and the 1997 and 2002 product classes and product codes, respectively.

---

## ABBREVIATIONS

The phrase “To be spec” indicates that the unit of measure is specified by the reporting establishment.

The abbreviation “nsk” means not specified by kind.

### Unit of Measure

bbls	Barrel
bd	Board
Btu	British thermal unit
cons	Consumed
cu	Cubic
cwt	Hundredweight
db	Dry basis
doz	Dozen
equiv	Equivalent
fin	Finished
ft	Feet
gal	Gallon
gvw	Gross vehicle weight
gwt	Gross weight
hr	Hour
in.	Inch
int	International
lum	Lumber
lb	Pounds
lin	Linear
mil	Millions
no	Number
nwt	Net weight
oz	Ounces
pt	Part
qt	Quarts
sm	Surface measure
sngl	Single
sol	Solids
sq	Square
st	Strength
std	Standard
wb	Wet basis
yd	Yards

---

## Data Collected

C	Consumption
CC	Circulation copies
I	Inventory (stock)
ISQ	Interplant shipments (quantity)
ISV	Interplant shipments (value)
P	Production (quantity)
PC	Produced and consumed (quantity)
PV	Production (value)
R	Receipts (value)
RA	Receipts from advertising
RAC	Receipts from advertising and copy sales
RC	Receipts from single copy sales
RQ	Receipts (quantity)
RS	Receipts from subscriptions and sales
RSB	Receipts from subscriptions
S	Shipments (quantity and value)
SQ	Shipments (quantity)
SV	Shipments (value)
UO	Unfilled orders (value)
UOQ	Unfilled orders (quantity)
VW	Value of work done

## CONVERSION TABLES

### United States to Approximate Metric Equivalent

---

To Convert From	To	Multiply by
inches	centimeters	2.540
inches	millimeters	25.40
square inches	square centimeters	6.452
square inches	square millimeters	645.2
feet	meters	0.3048
square feet	square meters	0.09290
yards	meters	0.9144
square yards	square meters	0.08361
ounces	grams	28.35
troy ounces	grams	31.10
pounds	kilograms	0.4536
long tons	metric tons	1.016
short tons	metric tons	0.9071
fluid ounces	milliliters	29.57
quarts	liter	0.9464
gallons	liters	3.785
bushels	liters	35.24
cubic feet	cubic meters	0.02832
cubic yards	cubic meters	0.7646
ounces per square yard	grams per square meter	33.91

---

## Metric to Approximate United States Equivalent

---

<b>To Convert From</b>	<b>To</b>	<b>Multiply by</b>
centimeters	inches	0.3937
millimeters	inches	0.03937
square centimeters	square inches	0.1552
square millimeters	square inches	0.01552
meters	feet	3.281
meters	yards	1.094
square meters	square feet	10.76
square meters	square yards	1.195
grams	ounces	0.03527
grams	troy ounces	0.03215
kilograms	pounds	2.205
metric tons	long tons	0.9842
metric tons	short tons	1.102
milliliters	fluid ounces	0.03381
liters	quarts	1.057
liters	gallons	0.2642
liters	bushels	0.02828
cubic meters	cubic feet	35.31
cubic meters	cubic yards	1.308
grams per square meter	ounces per square yard	0.0295