

U.S. Census Bureau
Defense, Navigational and Aerospace Electronics - 2010
MA334D(10)
Issued June 2011

Address inquiries concerning these data to Investment Goods Industries Branch, U.S. Department of Commerce, Bureau of the Census, Manufacturing and Construction Division, Washington D.C. 20233-6900, or call Philippe S.J. Morris, 301-763-4819.

Table 1. Value of Shipments of Defense, Navigational and Aerospace Electronics: 2010 to 2006
[Millions of dollars]

Product class code	Product Description	Year	Value
3345111	Aeronautical, nautical, and navigational instruments (except aircraft engine instruments)	2010	2,972.1
		2009	r/ 3,295.0
		2008	3,678.3
		2007	3,371.3
		2006	2,838.6
3345113	Search and detection, navigation and guidance systems and equipment	2010	39,324.2
		2009	39,490.7
		2008	37,237.7
		2007	33,894.8
		2006	32,697.1
3345192	Aircraft engine instruments (except flight)	2010	1,250.7
		2009	1,162.0
		2008	1,248.7
		2007	1,025.1
		2006	978.5
3333197	Electronic trainers and simulators, teaching machines, and teaching aids, including kits	2010	708.6
		2009	727.7
		2008	822.5
		2007	776.7
		2006	1,030.0
3333141	Sighting, tracking, and fire control equipment, optical type	2010	2,249.3
		2009	2,663.1
		2008	2,494.3
		2007	1,417.9
		2006	1,323.0

Table 2. Value of Shipments of Defense, Navigational and Aerospace Electronics: 2010 and 2009
[Value in thousands of dollars.]

Product code	Product description	Year	Companies	Value
3345111	Aeronautical, nautical, and navigational instruments (except aircraft engine instruments)	2010	(X)	2,972,109
		2009	r/	3,294,987
3345111106	Compasses, altimeters, and airspeed indicators	2010	25	483,127
		2009		502,249
3345111111	Acceleration indicators, rate-of-climb and angle-of-attack indicators, and artificial horizon flight instruments	2010	14	36,331
		2009		47,345
3345111115	Other aerospace and navigational instruments	2010	17	947,490
		2009		1,126,258
3345111226	Gyroscopes, sold separately	2010	9	55,530
		2009		70,447
3345111232	Airframe equipment instruments	2010	16 a/	255,424
		2009		254,951
3345111233	Other aerospace flight instruments	2010	22	607,416
		2009		736,910
3345111335	Nautical instruments	2010	12	(S)
		2009		69,567
3345111437	Parts and components for aeronautical, nautical, and navigational instruments	2010	31	519,946
		2009	r/	487,260
3345113	Search and detection systems, navigation and guidance systems, and equipment	2010	(X)	39,324,215
		2009		39,490,701
3345113101	Light reconnaissance and surveillance electronic systems and equipment	2010	27	10,286,021
		2009		7,933,959

3345113103	IFF equipment	2010	11		1,187,241
		2009			1,049,809
3345113207	Search, detection, and acquisition radar systems and equipment airborne and missile/space	2010	18		3,677,817
		2009			3,597,979
3345113212	Other search, detection, and acquisition radar systems and equipment	2010	14		970,373
		2009			3,992,282
3345113318	Tracking radar systems and equipment (fire control, bombing, bombing-navigational radar, aircraft and missile tracking radar, etc.)	2010	14	a/	1,536,550
		2009			1,486,338
3345113325	Instrumentation radar systems and equipment (altimeters, highway speed control radar, missile and space satellite tracking range radar, GCA and other precision approach radar, etc.)	2010	7		(D)
		2009			(D)
3345113426	Sonar search, detection, tracing and communication systems and equipment guidance, including ASM (sonar telephone, communica- tion equipment, depth finding, fire control, fusing, hydrophones mapping, sonabuys, navigation, sonar fish finders, sonar range instrumentation, etc.)	2010	20	a/ r/	912,227
		2009			840,329
3345113428	Electronic checkout and monitoring, equipment for radar, sonar search, detection, and communication systems and equipment	2010	11		422,510
		2009			388,331
3345113433	Specialized command and control equipment	2010	10		(D)
		2009			364,538
3345113436	Other search, detection, identification, and tracking systems and equipment	2010	25	r/	729,927
		2009			775,441
3345113437	Electronic warfare countermeasures equipment: jamming, communications and radar	2010	14		3,416,109
		2009			3,097,822
3345113441	Other electronic warfare countermeasures equipment	2010	7		(D)
		2009			(D)

3345113443	Specialized electronic and communications intelligence equipment	2010	20	r/	3,918,056
		2009			3,798,542
3345113545	Missile borne and space vehicle guidance systems	2010	25		3,158,390
		2009			3,204,028
3345113547	Nonmissile and space vehicle guidance systems	2010	10	a/	561,925
		2009		r/	512,957
3345113549	Electronic checkout, launching, and other missile and space support systems	2010	9	b/	491,791
		2009			568,512
3345113651	Airborne navigational systems, radio navigation receivers and displays	2010	16		676,128
		2009			778,827
3345113653	Airborne navigational systems, airborne integrated data systems/flight recorders	2010	5		265,375
		2009			(D)
3345113661	Airborne navigational systems, inertial navigation systems	2010	7		795,931
		2009			767,603
3345113668	Other airborne navigational systems	2010	14		2,245,784
		2009			2,608,776
3345113669	Surface (ship and ground) navigational systems	2010	25		505,760
		2009			477,317
3345113673	Electronic checkout, monitoring, evaluation, and other electronic support equipment for navigational systems and equipment	2010	23	r/	573,087
		2009			513,398
3345113681	All other search and detection, navigation and guidance systems and equipment, not specified above	2010	13	r/	1,868,176
		2009			1,522,449
3345192	Aircraft engine instruments (except flight)	2010	(X)		1,250,655
		2009			1,161,965
3345192101	Temperature sensors, transmitters, and displays	2010	15		223,494
		2009			218,865

3345192104	Pressure ratio and vacuum sensors, transmitters, controls, and displays	2010	9		73,147
		2009			69,189
3345192114	All other aircraft engine instruments	2010	20		833,216
		2009			762,668
3345192115	Parts and components	2010	10	b/	120,798
		2009		c/	111,243
3333197	Electronic trainers and simulators, teaching machines, and teaching aids, including kits	2010	(X)		708,644
		2009			727,698
3333141	Sighting, tracking, and fire control equipment optical type	2010	(X)		2,249,307
		2009			2,663,127
3333141101	Made from lenses, prisms, etc., produced in this plant	2010	7		224,325
		2009			543,176
3333141103	Made from purchased lenses, prisms, etc.	2010	15	c/	313,550
		2009			362,568
3333141104	Sighting and tracking laser systems	2010	8		297,221
		2009		r/	333,146
3333141106	Night vision goggles and equipment	2010	10		617,760
		2009			680,441
3333141109	Parts and accessories	2010	18		796,451
		2009			743,796

Table 3. Value of Shipments, Exports and Imports of Defense, Navigational and Aerospace Electronics: 2010 and 2009
[Value in thousands of dollars.]

Product code 1/	Product description	Year	Manufacturers' shipments quantity	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise 2/ (value at port)	Imports for consumption 3/4/
3345111106	Compasses, altimeters, and airspeed indicators	2010	(N/A)	483,127	76,024	60,553
		2009	(N/A)	502,249	80,439	41,167
334511000T	Search, detection, aeronautical, nautical, and navigational and guidance systems, equipment and instruments, n.e.c. (except aircraft engine instruments)	2010	(N/A)	13,962,244	N/A	855,093
		2009	(N/A)	11,776,506	N/A	789,717
334511300T	Radar systems and equipment	2010	(N/A)	(D)	385,176	226,207
		2009	(N/A)	(D)	316,345	206,155
3345113651	Radio navigational aid receivers and displays	2010	(N/A)	676,128	544,108	3,068,516
		2009	(N/A)	778,827	447,721	3,542,025
334511310T	Sonar search, detection, tracking, and communication systems and equipment, including ASW (sonar telephone, communication equipment, depth finding, fire control, fusing guidance, hydrophones, mapping, sonabuys, navigation, sonar fish finders, sonar finders, sonar range instrumentation, and other)	2010	(N/A)	20,828,135	217,666	223,890
		2009	(N/A)	20,524,870	148,911	206,369
3333141100	Sighting, tracking, and fire control equipment, optical type	2010	(N/A)	2,249,307	69,402	160,471
		2009	(N/A)	2,663,127	70,389	166,034

Footnotes:

1/For comparison of the North American Industry Classification Systems codes with Schedule B export numbers and HTSUSA import numbers, see Table 4.

2/Source: Census Bureau report, EM 545, U.S. Exports.

3/Source: Census Bureau report, IM 145, U.S. Imports for Consumption.

4/Value represents the c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Table 4. Comparison of combined North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2010

Combined code	Product code	Product description	Export code 1/	Import code 2/
3345111106	3345111106	Compasses, altimeters, and airspeed indicators	9014.10.1080	9014.10.1000
			9014.10.6080	9014.10.6000
			9014.10.7080	9014.10.7030
			9014.10.9080	9014.10.7060 9014.10.9000
334511000T	3345111111	Search, detection, aeronautical, nautical, and navigational and guidance systems, equipment and instruments, n.e.c. (except aircraft engine instruments)	N/A	9014.20.2000
	3345111115			9014.20.4000
	3345111226			9014.20.6000
	3345111232			9014.20.8040
	3345111233			9014.20.8080
	3345111335			9014.90.2040
	3345111437			9014.90.2080
	3345113101			9014.90.6000
	3345113103			9014.80.1000
334511300T	3345113207	Radar systems and equipment	8526.10.0020	8526.10.0020
	3345113212		8526.10.0070	8526.10.0040
	3345113318			
	3345113325			
3345113651	3345113651	Airborne navigational systems, radio navigational receivers and displays	8526.91.0030	8526.91.0020
			8526.91.0070	8526.91.0040
334511310T	3345113426	Sonar search, detection, tracking, and communication systems and equipment, including ASW (sonar telephone, communication equipment, depth finding, fire control, fusing guidance, hydrophones, mapping, sonabuoys, navigation, sonar fish finders, sonar finders, sonar range instrumentation, and other)	9014.80.2000	
	3345113428		9014.80.6000	9014.80.2000
	3345113433			9014.80.4000
	3345113436			9014.80.5000
	3345113437			
	3345113441			
	3345113443			

	3345113545			
	3345113547			
	3345113549			
	3345113653			
	3345113661			
	3345113668			
	3345113669			
	3345113673			
	3345113681			
3333141100	3333141101	Sighting, tracking, and fire control equipment, optical type	9013.10.2000	
	3333141103		9013.10.4000	9013.10.1000
	3333141104			9013.10.3000
	3333141106			9013.10.4000
	3333141109			

Footnotes:

1/Source: 2010 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2010).

Symbols:

- (D) - Withheld to avoid disclosing data of individual companies.
- (X) - Not applicable.
- (NA) - Not available.
- r/ - Revised by 5 percent or more from previously published data.
- (n.e.c.) - Not elsewhere classified.
- (n.s.k.) - Not specified by kind.
- (nehp) - Net engine horsepower
- (btuh) - British thermal units per hour
- (pt.) Part.
- Represents zero.

Estimation symbols - Percent of estimation for each item is indicated as follows:

- a/ - 10 to 19 percent of this item has been estimated.
- b/ - 20 to 29 percent of this item has been estimated.
- c/ - 30 to 49 percent of this item has been estimated.
- (S) - Withheld because estimates did not meet publication standards.

Historical Note

The Census Bureau has collected data on selected instruments and related products since 1961 on survey MA334B.

Beginning in 2005, a portion of data for MA334B, Selected Instruments and Related Products, will be published under the new survey MA334D, Defense, Navigational, and Aerospace Electronics. Additional data for MA334B can be found on surveys MA334A, Analytical and Biomedical Instruments, MA334C, Control Instruments, and MA334T, Meters and Test Devices.

Historical Current Industrial Reports data may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.