

BEA Rates of Depreciation, Service Lives, Declining-Balance Rates, and Hulten-Wyckoff Categories--Table Continues

Type of Asset	Rate of depreciation	Service life	Declining balance rate	Hulten-Wyckoff category/1/
Private nonresidential equipment				
Computers and peripheral equipment /2/	.....	.....	.....	.....
Software:				
Prepackaged	0.5500	3	1.65	C
Custom	0.3300	5	1.65	C
Own-account	0.3300	5	1.65	C
Communications equipment:				
Rental and leasing and computer systems design and related services /3/	0.1500	11	1.65	C
Other industries /3/	0.1100	15	1.65	C
Nonmedical instruments/4/	0.1350	12	1.6203	C
Medical equipment and instruments:				
Medical instruments /4/	0.1350	12	1.6203	C
Electromedical equipment /5/	0.1834	9	1.65	C
Photocopy and related equipment /6/	0.1800	9	1.6203	C
Office and accounting equipment:				
Years before 1978	0.2729	8	2.1832	B
1978 and later years	0.3119	7	2.1832	B
Nuclear fuel /7/	.....	4	.....	.....
Other fabricated metal products /8/	0.0917	18	1.65	C
Steam engines and turbines /9/	0.0516	32	1.65	C
Internal combustion engines /9/	0.2063	8	1.65	C
Metalworking machinery:				
Nonmanufacturing industries	0.1225	16	1.96	A
Durable manufacturing:				
Wood products	0.1633	12	1.96	A
Nonmetallic mineral products	0.1032	19	1.96	A
Primary metals	0.0726	27	1.96	A
Fabricated metal products	0.0817	24	1.96	A
Machinery	0.0784	25	1.96	A
Computer and electronic products	0.1400	14	1.96	A
Electronic equipment, appliances, and components	0.1400	14	1.96	A
Motor vehicles, bodies and trailers, and parts	0.1400	14	1.96	A
Other transportation equipment	0.1153	17	1.96	A
Furniture and related products	0.1400	14	1.96	A
Miscellaneous manufacturing:				
Medical equipment and supplies	0.1400	14	1.96	A
Other	0.1153	17	1.96	A
Nondurable manufacturing:				
Food and beverage and tobacco products:				
Food	0.0980	20	1.96	A
Beverage and tobacco product	0.0933	21	1.96	A
Textile and textile product mills	0.1225	16	1.96	A
Apparel and leather and allied products	0.1307	15	1.96	A
Paper products	0.1225	16	1.96	A
Printing and related support activities	0.1307	15	1.96	A
Petroleum and coal products	0.0891	22	1.96	A
Chemical	0.1225	16	1.96	A
Plastics and rubber products	0.1400	14	1.96	A
Special industry machinery, nec:				
Nonmanufacturing industries	0.1031	16	1.65	C
Durable manufacturing:				
Wood products	0.1375	12	1.65	C
Nonmetallic mineral products	0.0868	19	1.65	C
Primary metals	0.0611	27	1.65	C
Fabricated metal products	0.0688	24	1.65	C
Machinery	0.0660	25	1.65	C
Computer and electronic products	0.1179	14	1.65	C
Electronic equipment, appliances, and components	0.1179	14	1.65	C
Motor vehicles, bodies and trailers, and parts	0.1179	14	1.65	C
Other transportation equipment	0.0971	17	1.65	C
Furniture and related products	0.1179	14	1.65	C
Miscellaneous manufacturing:				
Medical equipment and supplies	0.1179	14	1.65	C
Other	0.0971	17	1.65	C

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Type of Asset	Rate of depreciation	Service life	Declining balance rate	Hulten-Wyckoff category/1/
Nondurable manufacturing				
Food and beverage and tobacco products:				
Food	0.0825	20	1.65	C
Beverage and tobacco product	0.0786	21	1.65	C
Textile and textile product mills	0.1031	16	1.65	C
Apparel and leather and allied products	0.1100	15	1.65	C
Paper products	0.1031	16	1.65	C
Printing and related support activities	0.1100	15	1.65	C
Petroleum and coal products	0.0750	22	1.65	C
Chemical	0.1031	16	1.65	C
Plastics and rubber products	0.1179	14	1.65	C
General industrial, including materials handling equipment:				
Nonmanufacturing industries	0.1072	16	1.715	A
Durable manufacturing:				
Wood products	0.1429	12	1.715	A
Nonmetallic mineral products	0.0903	19	1.715	A
Primary metals	0.0635	27	1.715	A
Fabricated metal products	0.0715	24	1.715	A
Machinery	0.0686	25	1.715	A
Computer and electronic products	0.1225	14	1.715	A
Electronic equipment, appliances, and components	0.1225	14	1.715	A
Motor vehicles, bodies and trailers, and parts	0.1225	14	1.715	A
Other transportation equipment	0.1009	17	1.715	A
Furniture and related products	0.1225	14	1.715	A
Miscellaneous manufacturing:				
Medical equipment and supplies	0.1225	14	1.715	A
Other	0.1009	17	1.715	A
Nondurable manufacturing:				
Food and beverage and tobacco products:				
Food	0.0858	20	1.715	A
Beverage and tobacco product	0.0817	21	1.715	A
Textile and textile product mills	0.1072	16	1.715	A
Apparel and leather and allied products	0.1143	15	1.715	A
Paper products	0.1072	16	1.715	A
Printing and related support activities	0.1143	15	1.715	A
Petroleum and coal products	0.0780	22	1.715	A
Chemical	0.1072	16	1.715	A
Plastics and rubber products	0.1225	14	1.715	A
Electrical transmission, distribution, and industrial apparatus	0.0500	33	1.65	C
Trucks, buses, and truck trailers:				
<i>Years before 1992:</i>				
Transit and ground passenger transportation /10/	0.1232	14	1.7252	A
Trucking and other services /10/	0.1725	10	1.7252	A
Other industries	0.1917	9	1.7252	A
<i>1992 and later years:</i>				
Light trucks /11/	0.1925	17	3.2725	.....
Other trucks, buses, and truck trailers:				
Transit and ground passenger transportation /10/	0.1232	14	1.7252	A
Trucking and other services /10/	0.1725	10	1.7252	A
Other industries	0.1917	9	1.7252	A
Autos /12/

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Type of Asset	Rate of depreciation	Service life	Declining balance rate	Hulten-Wyckoff category/1/
Aircraft:				
<i>Years before 1960:</i>				
Air transportation, depository institutions, other credit intermediation, and rental and leasing	0.1031	16	1.65	C
Other industries	0.1375	12	1.65	C
<i>1960 and later years</i>				
Air transportation, depository institutions, other credit intermediation, insurance agencies and brokers, offices of bank holding companies and of other holding companies, funds, trusts and other financial vehicles, and rental and leasing /11/	0.0660	25	1.65	.....
Other industries	0.1100	15	1.65	C
Ships and boats	0.0611	27	1.65	B
Railroad equipment	0.0589	28	1.65	C
Household furniture and fixtures /13/	0.1375	12	1.65	C
Other furniture /13/	0.1179	14	1.65	C
Farm tractors /14/	0.1452	9	1.3064	A
Agricultural machinery, except tractors	0.1179	14	1.65	C
Construction tractors /14/	0.1633	8	1.3064	A
Construction machinery, except tractors	0.1550	10	1.55	A
Mining and oil field machinery	0.1500	11	1.65	C
Service industry machinery:				
Wholesale and retail trade /15/	0.1650	10	1.65	C
Other industries /15/	0.1500	11	1.65	C
Household appliances /16/	0.1650	10	1.65	C
Miscellaneous electrical equipment /5/	0.1834	9	1.65	C
Other / 4/	0.1473	11	1.6203	C
Private nonresidential structures				
Office buildings, including medical buildings /17/	0.0247	36	0.8892	A
Commercial warehouses /17/	0.0222	40	0.8892	A
Other commercial buildings /17/	0.0262	34	0.8992	A
Mobile offices /17/	0.0556	16	0.8892	A
Hospital and special care	0.0188	48	0.9024	B
Manufacturing	0.0314	31	0.9747	A
Electric light and power /18/:				
<i>Years before 1946</i>	0.0237	40	0.948	C
<i>1946 and later years</i>	0.0211	45	0.948	C
Gas /18/	0.0237	40	0.948	C
Petroleum pipelines /18/	0.0237	40	0.948	C
Wind and solar /11/	0.0303	30	0.909	.....
Communication/18/	0.0237	40	0.948	C
Railroad replacement track/18/	0.0249	38	0.948	C
Other railroad structures /18/	0.0176	54	0.948	C
Mining exploration, shafts, and wells:				
Petroleum and natural gas /19/:				
<i>Years before 1973</i>	0.0563	16	0.9008	C
<i>1973 and later years</i>	0.0751	12	0.9008	C
Other /19/	0.0450	20	0.9008	C
Religious buildings	0.0188	48	0.9024	C
Educational buildings	0.0188	48	0.9024	C
Lodging /20/	0.0281	32	0.899	B
Amusement and recreational buildings /20/	0.0300	30	0.899	B
Farm /21/	0.0239	38	0.91	C
Local transit /22/	0.0237	38	0.899	C
Other /22/	0.0225	40	0.899	C

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Type of Asset	Rate of depreciation	Service life	Declining balance rate	Hulten-Wyckoff category/1/
Residential capital (private and government)				
1-to-4-unit structures-new /21/	0.0114	80	0.91	A
1-to-4-unit structures-additions and alterations /21/	0.0227	40	0.91	A
1-to-4-unit structures-major replacements /21/	0.0364	25	0.91	A
5-or-more-unit structures-new /21/	0.0140	65	0.91	A
5-or-more-unit structures-additions and alterations /21/	0.0284	32	0.91	A
5-or-more-unit structures-major replacements /21/	0.0455	20	0.91	A
Manufactured homes /21/	0.0455	20	0.91	A
Other structures /21/	0.0227	40	0.91	A
Equipment /16/	0.1500	11	1.65	C
Durable goods owned by consumers /23/				
Motor vehicles and parts				
Autos /12/	.....	.....	.....	.....
Trucks				
Years before 1992 /24/	0.2316	8	1.853	A
1992 and later years /11/	0.1925	17	3.2725	.....
Recreational vehicles /24/	0.2316	8	1.853	A
Tires, tubes, accessories, and other parts /24/	0.6177	3	1.853	A
Furniture, including mattresses and bedsprings	0.1179	14	1.65	B
Kitchen and other household appliances	0.1500	11	1.65	C
China, glassware, tableware, and utensils /25/	0.1650	10	1.65	C
Other durable house furnishings /25/	0.1650	10	1.65	C
Video and audio products, including musical instruments /26/	0.1833	9	1.65	B
Computers and peripherals /2/	.....	.....	.....	.....
Software	0.5500	3	1.65	C
Jewelry and watches /25/	0.1500	11	1.65	C
Ophthalmic products and orthopedic appliances /25/	0.2750	6	1.65	C
Books and maps /25/	0.1650	10	1.65	C
Wheel goods, sports and photographic equipment, boats, and pleasure aircraft /27/	0.1650	10	1.65	C
Government nonresidential equipment /28/				
Federal:				
National defense:				
Aircraft:				
Airframes:				
Bombers	0.0660	25	1.65	C
F-14 type	0.0868	19	1.65	C
Attack, F-15 and F-16 types	0.0825	20	1.65	C
F-18 type	0.1100	15	1.65	C
Electronic warfare	0.0717	23	1.65	C
Cargo and trainers	0.0660	25	1.65	C
Helicopters	0.0825	20	1.65	C
Engines	0.2750	6	1.65	C
Other:				
Years before 1982	0.1179	14	1.65	C
1982 and later years	0.1650	10	1.65	C
Missiles: /29/				
Strategic	20
Tactical	15
Torpedoes	15
Fire control equipment	10
Space programs	20

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Type of Asset	Rate of depreciation	Service life	Declining balance rate	Hulten-Wyckoff category/1/
Ships:				
Surface ships	0.0550	30	1.65	C
Submarines	0.0660	25	1.65	C
Government furnished equipment:				
Electrical	0.1834	9	1.65	C
Propulsion	0.0825	20	1.65	C
Hull, mechanical	0.0660	25	1.65	C
Ordnance	0.1650	10	1.65	C
Other	0.1650	10	1.65	C
Vehicles:				
Tanks, armored personnel carriers, and other combat vehicles	0.0825	20	1.65	C
Noncombat vehicles:				
Trucks	0.2875	6	1.7252	C
Autos /30/				
Other	0.2465	7	1.7252	C
Electronic equipment:				
Computers and peripheral equipment /2/	.....	.....	.....	.....
Electronic countermeasures	0.2357	7	1.65	C
Other	0.1650	10	1.65	C
Other equipment:				
Medical	0.1834	9	1.65	C
Construction	0.1550	10	1.5498	C
Industrial	0.0917	18	1.65	C
Ammunition plant	0.0868	19	1.65	C
Atomic energy	0.1375	12	1.65	C
Weapons and fire control	0.1375	12	1.65	C
General	0.1650	10	1.65	C
Other	0.1375	12	1.65	C
Nondefense:				
General government:				
Computers and peripheral equipment /2/	.....	.....	.....	.....
Aerospace equipment	0.1100	15	1.65	C
Vehicles	0.4533	5	2.2664	C
Other	0.1650	10	1.65	C
Enterprises:				
US Postal Service:				
Computers and peripheral equipment /2/	.....	.....	.....	.....
Vehicles	0.3238	7	2.2664	C
Other	0.1100	15	1.65	C
Tennessee Valley Power Authority	0.0500	33	1.65	C
Bonneville Power Authority	0.0500	33	1.65	C
Other	0.0660	25	1.65	C
State and local:				
Power tools, lawn and garden equipment	0.1650	10	1.65	C
Miscellaneous metal products	0.0917	18	1.65	C
Agricultural machinery and equipment	0.1833	9	1.65	C
Construction machinery and equipment	0.1650	10	1.65	C
Metalworking machinery and equipment	0.1031	16	1.65	C
General purpose machinery and equipment	0.1500	11	1.65	C
Special industry machinery and equipment	0.1500	11	1.65	C
Integrating and measuring instruments	0.1375	12	1.65	C
Motors, generators, motor generator sets	0.0516	32	1.65	C
Switchgear and switchboard equipment	0.0500	33	1.65	C
Electronic components and accessories	0.1833	9	1.65	C
Miscellaneous electrical machinery	0.1375	12	1.65	C
Calculating and accounting machines	0.2357	7	1.65	C
Typewriters	0.2357	7	1.65	C
Computers and peripheral equipment /2/	.....	.....	.....	.....
Machine shop products	0.2063	8	1.65	C
Wood commercial furniture	0.1179	14	1.65	C
Metal commercial furniture	0.1179	14	1.65	C
Household appliances	0.1500	11	1.65	C
Home electronic equipment	0.1500	11	1.65	C

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Type of Asset	Rate of depreciation	Service life	Declining balance rate	Hulten-Wyckoff category/1/
Motor vehicles	0.1650	10	1.65	C
Motorcycles	0.1650	10	1.65	C
Aircraft	0.1100	15	1.65	C
Railroad equipment	0.0590	28	1.65	C
Sporting and athletic goods	0.1650	10	1.65	C
Photographic and photocopying equipment	0.1650	10	1.65	C
Mobile classrooms, mobile offices, etc	0.1650	10	1.65	C
Musical instruments	0.1834	9	1.65	C
Other equipment	0.1375	12	1.65	C
Government nonresidential structures /31/				
Federal, State, and local:				
Buildings:				
Industrial	0.0285	32	0.91	C
Educational	0.0182	50	0.91	C
Hospital	0.0182	50	0.91	C
Other	0.0182	50	0.91	C
Nonbuildings:				
Highways and streets /32/	0.0202	45	0.91	.....
Conservation and development	0.0152	60	0.91	C
Sewer systems	0.0152	60	0.91	C
Water systems	0.0152	60	0.91	C
Military facilities	0.0182	50	0.91	C
Other	0.0152	60	0.91	C
Conservation and development	0.0152	60	0.91	C
Sewer systems	0.0152	60	0.91	C
Water systems	0.0152	60	0.91	C
Military facilities	0.0182	50	0.91	C
Other	0.0152	60	0.91	C

1. This column refers to Hulten-Wyckoff categories. Type A assets are types of assets for which Hulten-Wyckoff specifically estimated age-price profiles. Type B assets are those for which Hulten-Wyckoff used empirical research by others and their judgement to estimate the depreciation rate. Type C assets are types of assets for which Hulten-Wyckoff had no data. For these assets, Hulten-Wyckoff estimated an average declining-balance rate from data for all type A and B assets.
2. For computers and peripheral equipment, information on used asset prices is available and empirical profiles are used. See *Fixed Assets and Consumer Durable Goods* methodology: M29-M30 on http://www.bea.gov/national/pdf/Fixed_Assets_1925_97.pdf.
3. The declining-balance rate is from the Hulten-Wyckoff communications equipment aggregate.
4. Medical and nonmedical Instruments and other private nonresidential equipment, called producer durable equipment by Hulten-Wyckoff, are classified by them to be of type C, but appear to be of type B as they were given a declining-balance rate of 0.91.
5. The declining-balance rate is from the Hulten-Wyckoff electrical equipment (not elsewhere classified) aggregate.
6. The declining-balance rate is from the Hulten-Wyckoff other producer durable equipment aggregate.
7. The depreciation rates for nuclear fuel are based on a straight-line rate and a Winfrey retirement pattern.
8. The declining-balance rate is from the Hulten-Wyckoff fabricated metal products aggregate.
9. The declining-balance rate is from the Hulten-Wyckoff engines and turbines aggregate.
10. The declining-balance rate is from the Hulten-Wyckoff trucks, buses and truck trailer aggregate.
11. The depreciation rate is derived by BEA.
12. Depreciation rates for autos are derived by BEA from data on new and used auto prices.
13. The declining-balance rate is from the Hulten-Wyckoff furniture and fixtures aggregate.
14. The declining-balance rate is from the Hulten-Wyckoff tractors aggregate.
15. The declining-balance rate is from the Hulten-Wyckoff service industry machinery aggregate.
16. The declining-balance rate is set to the Hulten-Wyckoff producer durable equipment default.
17. The declining-balance rate is from the Hulten-Wyckoff commercial aggregate.
18. The declining-balance rate is from the Hulten-Wyckoff public utilities aggregate.
19. The declining-balance rate is from the Hulten-Wyckoff mining exploration, shafts and wells aggregate.
20. The declining-balance rate is from the Hulten-Wyckoff other private nonresidential structures aggregate, which consists of buildings used primarily for social and recreational activities and buildings not elsewhere classified.
21. The declining-balance rate is set to the Hulten-Wyckoff private nonresidential structures default.
22. The declining-balance rate is from the Hulten-Wyckoff other private nonresidential structures aggregate, which consists of streets, dams and reservoirs, sewer and water facilities.
23. For all consumer durables except for motor vehicles and parts and computing equipment, the declining-balance rate is set to the Hulten-Wyckoff producer durable equipment default.
24. The declining-balance rate is from the Hulten-Wyckoff motor vehicles and parts aggregate. The declining-balance rate for this category is calculated under the assumption that the service life for consumer durables motor vehicles and parts is equal to the service life for producer durable equipment autos previously used by BEA.