

Overview

Below are the List of Tables and a sample table from the *World Graphic Paper Annual Historical Data*. This report includes historical demand/supply balance for the global graphic paper industry from 1998 to 2008. Data are listed by concept and region.

Concepts covered in these tables include: production, capacity, imports, exports, apparent consumption and operating rates. The demand and supply data have been developed for all of the major graphic paper grades: coated woodfree, coated mechanical, uncoated woodfree, uncoated mechanical and newsprint.

For additional information, please email us at sales@risi.com.

List of Tables

Production

- Coated Woodfree
- Coated Mechanical
- Uncoated Woodfree
- Uncoated Mechanical
- Printing & Writing
- Newsprint

Capacity

- Coated Woodfree
- Coated Mechanical
- Uncoated Woodfree
- Uncoated Mechanical
- Printing & Writing
- Newsprint

Imports

- Coated Woodfree
- Coated Mechanical
- Uncoated Woodfree
- Uncoated Mechanical
- Printing & Writing
- Newsprint

Exports

- Coated Woodfree
- Coated Mechanical
- Uncoated Woodfree
- Uncoated Mechanical
- Printing & Writing
- Newsprint

Apparent Consumption

- Coated Woodfree
- Coated Mechanical
- Uncoated Woodfree
- Uncoated Mechanical
- Printing & Writing
- Newsprint

Operating Rates

- Coated Woodfree
- Coated Mechanical
- Uncoated Woodfree
- Uncoated Mechanical
- Printing & Writing
- Newsprint

Regional Tables

World

- Total World

North America

- United States
- Canada
- Total North America

Western Europe

- Austria
- Belgium-Luxembourg
- Denmark
- Finland
- France
- Germany
- Greece
- Iceland
- Ireland

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Italy	Other Far East
Netherlands	Total Asia
Norway	Oceania
Portugal	Australia
Spain	New Zealand
Sweden	Other Oceania
Switzerland	Total Oceania
United Kingdom	Latin America
Total Western Europe	Argentina
Eastern Europe	Bahamas
Albania	Barbados
Armenia	Belize
Azerbaijan	Bermuda
Belarus	Bolivia
Bosnia & Herzegovnia	Brazil
Bulgaria	Chile
Croatia	Colombia
Cyprus	Costa Rica
Czech Republic	Cuba
Estonia	Dominican Republic
Georgia	Ecuador
Hungary	El Salvador
Latvia	Guadeloupe
Lithuania	Guatemala
Macedonia	Guyana
Malta	Haiti
Moldova Republic	Honduras
Poland	Jamaica
Romania	Leeward & Windward Islands
Russia	Martinique
Serbia & Montenegro (Yugoslavia)	Mexico
Slovak Republic	Netherlands Antilles
Slovenia	Nicaragua
Ukraine	Panama
Total Eastern Europe	Paraguay
Asia	Peru
China	Puerto Rico
Hong Kong	Suriname
India	Trinidad & Tobago
Indonesia	Uruguay
Japan	Venezuela
Malaysia	Total Latin America
Pakistan	Middle East
Philippines	Bahrain
Singapore	Iran
South Korea	Iraq
Taiwan	Israel
Thailand	

Jordan
 Kuwait
 Lebanon
 Oman
 Qatar
 Saudi Arabia
 Syria
 Turkey
 United Arab Emirates
 Yemen
 Total Middle East

Somalia
 South Africa
 Sudan
 Swaziland
 Tanzania
 Togo
 Tunisia
 Uganda
 Zambia
 Zimbabwe
 Total Africa

Africa

Algeria
 Angola
 Benin
 Botswana
 Burkina Faso
 Burundi
 Cameroon
 Central Africa Republic
 Chad
 Congo
 Congo, Democratic Republic of (Zaire)
 Cote d'Ivoire
 Djibouti
 Egypt
 Ethiopia
 Gabon
 Gambia
 Ghana
 Guinea
 Guinea-Bissau
 Kenya
 Lesotho
 Liberia
 Libya
 Madagascar
 Malawi
 Mali
 Mauritania
 Mauritius
 Morocco
 Mozambique
 Namibia
 Niger
 Nigeria
 Rwanda
 Senegal
 Sierra Leone

Explanatory Notes on Tables

The units for all data in this volume are thousand tonnes.

Uncoated Woodfree paper is typically bleached, uncoated paper, that has primarily a chemical woodpulp furnish. Some mechanical pulps are allowed in the furnish, but they generally represent less than 10-20% of the furnish. Common examples of uncoated woodfree papers are copy paper, ink-jet paper, formbond and uncoated offset printing papers.

Coated Woodfree paper is typically bleached paper with a coating of pigments, minerals, binders or special coatings for the purpose of improving the appearance and printing surface. Kaolin is the most common pigment. The coating commonly accounts for 30-50% of the weight of the paper. The basis weight breakpoint between coated paper and coated board is not exact, but is generally about 220 grams per square meter (gsm). Some coated bristols go higher in weight, but some coated boards go as low as 150 gsm. The end-use application helps determine classification for papers and boards in this gray area. The fiber furnish is primarily chemical woodpulp. Some mechanical pulps are allowed in the furnish, but they generally represent less than 10-20% of the furnish. Common examples of coated woodfree papers are papers used in high quality magazines, brochures and catalogs.

Uncoated Mechanical paper is typically uncoated paper that has a significant amount of mechanical woodpulp in the furnish. Traditional statistical classification of trade and production data includes all paper with more than 10% mechanical pulp; but in practice, this limit has been removed by most organizations, and paper with up to 20% mechanical pulp sells as woodfree paper. Uncoated mechanical papers are used in magazines, inserts, catalogs, directories and paperback books. Supercalendered (SC) paper is a typical grade of uncoated mechanical paper. The term groundwood

is often used, incorrectly, in place of mechanical. Groundwood is technically just one of the many types of mechanical pulp.

Coated Mechanical paper is typically paper with a coating of pigments, minerals, binders or special coatings for the purpose of improving the appearance and printing surface. Kaolin is the most common pigment. The coating commonly accounts for 30-50% of the weight of the paper. The fiber furnish has a significant amount of mechanical woodpulp. Traditional statistical classification of trade and production data includes all paper with more than 10% mechanical pulp; but in practice, this limit has been removed by most organizations, and paper with up to 20% mechanical pulp sells as woodfree paper. The statistical classification varies by continent for optically bright coated papers that may have 20-40% mechanical pulp in the furnish. The European trade organizations may report these as woodfree, while other organizations and trade statistics may classify them as mechanical. Coated mechanical papers are used in mass consumer magazines, newspaper inserts and catalogs. LWC is commonly used, incorrectly, to mean coated mechanical papers, but LWC actually refers to just the light weight grades and can be either mechanical or woodfree. The term groundwood is often used, incorrectly, in place of mechanical. Groundwood is technically just one of the many types of mechanical pulp.

Printing & Writing paper includes coated woodfree, coated mechanical, uncoated woodfree and uncoated mechanical.

Newsprint is a general term used to describe paper between 40g/m² and 57g/m² generally used in the publication of newspapers. The furnish is largely mechanical wood pulp with some chemical wood pulp. Exact definitions vary by world region.

Rest of World

Uncoated paper of a kind used for the printing of newspapers, of which not less than 65% by weight of the total fiber content consists of wood fibers obtained by a mechanical or chemi-mechanical process, unsized or very lightly sized, having a surface roughness Parker Print Surf (1 MPa) on each side exceeding 2.5 micrometres (microns), weighing not less than 40g/m² and not more than 65g/m².

Data displayed as "0" represent numbers between 0 and 1.

Data for Puerto Rico include newsprint imports only, all other grades are included in US figures.

Other Far East includes:

Afghanistan, Bangladesh, Bhutan, Brunei, Cambodia, Kazakhstan, Kyrgyzstan, Laos, Macau, Mongolia, Myanmar, Nepal, North Korea, Sri Lanka, Tajikistan, Turkmenistan, Uzbekistan and Vietnam.

Other Oceania includes:

Fiji, French Polynesia, New Caledonia, Papua New Guinea and Samoa.

Latin America

ARGENTINA

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Apparent Consumption											
Coated Woodfree	128.5	123.4	119.0	100.8	43.2	69.9	99.3	120.3	127.6	128.8	133.4
Coated Mechanical	156.1	116.4	129.8	105.9	35.1	45.0	65.2	70.7	80.4	74.5	83.9
Uncoated Woodfree	249.8	221.4	198.0	221.5	162.7	209.2	231.8	250.9	264.7	296.6	272.0
Uncoated Mechanical	69.0	64.8	80.9	46.8	48.0	69.1	72.6	65.2	71.3	59.8	64.1
Printing & Writing	603.4	526.0	527.7	475.0	289.0	393.2	468.9	507.1	544.0	559.7	553.4
%	11.9%	-12.8%	0.3%	-10.0%	-39.2%	36.1%	19.3%	8.1%	7.3%	2.9%	-1.1%
Newsprint	303.0	285.0	296.0	261.1	174.1	222.6	247.0	264.3	272.4	258.9	269.4
%	-1.0%	-5.9%	3.9%	-11.8%	-33.3%	27.9%	11.0%	7.0%	3.1%	-5.0%	4.1%
Imports											
Coated Woodfree	99.0	94.7	95.7	83.3	25.8	50.7	80.6	99.6	109.3	119.0	122.0
Coated Mechanical	156.3	116.5	130.3	106.4	36.4	46.8	69.6	76.4	89.3	82.0	89.0
Uncoated Woodfree	100.0	107.0	95.6	92.1	20.3	35.6	36.5	52.2	54.8	52.0	67.0
Uncoated Mechanical	28.2	20.6	19.0	13.5	9.6	20.4	30.2	28.4	34.9	26.0	27.0
Printing & Writing	383.5	338.8	340.6	295.3	92.1	153.5	216.9	256.6	288.3	279.0	305.0
Newsprint	128.0	118.0	126.0	79.0	15.0	46.2	65.2	66.8	70.6	74.1	84.7
Exports											
Coated Woodfree	0.5	0.3	1.7	1.5	2.6	4.8	2.3	0.3	0.7	1.2	2.6
Coated Mechanical	0.2	0.1	0.5	0.5	1.3	1.8	4.4	5.7	8.9	7.5	5.1
Uncoated Woodfree	25.2	14.6	14.6	15.6	39.6	57.4	102.7	110.3	112.1	99.4	79.0
Uncoated Mechanical	6.2	1.8	0.1	0.7	2.6	0.3	0.6	2.2	3.6	5.2	2.9
Printing & Writing	32.1	16.8	16.9	18.3	46.1	64.3	110.0	118.5	125.3	113.3	89.6
Newsprint				0.9	11.9	8.6	1.2	0.5	1.2	0.2	0.3
Production											
Coated Woodfree	30	29	25	19	20	24	21	21	19	11	14
Coated Mechanical											
Uncoated Woodfree	175	129	117	145	182	231	298	309	322	344	284
Uncoated Mechanical	47	46	62	34	41	49	43	39	40	39	40
Printing & Writing	252	204	204	198	243	304	362	369	381	394	338
%	-4.5%	-19.0%	0.0%	-2.9%	22.7%	25.1%	19.1%	1.9%	3.3%	3.4%	-14.2%
Newsprint	175	167	170	183	171	185	183	198	203	185	185
%	20.7%	-4.6%	1.8%	7.6%	-6.6%	8.2%	-1.1%	8.2%	2.5%	-8.9%	0.0%