



AUSTRALIAN PLANTATION PRODUCTS
AND PAPER INDUSTRY COUNCIL

Australian Paper Industry Statistics 2004-05

Unless otherwise stated, all data is derived from information provided by Australia's six major paper manufacturing companies, Amcor Australasia, Kimberley-Clark, Australian Paper, Norske Skog Australasia, SCA Hygiene Australasia and Visy Industries.

Apparent Consumption of Paper

(*'000 tonnes*)

| | Production | Exports | Imports ¹ | Consumption |
|------------------------|--------------|------------|----------------------|--------------|
| Newsprint | 423 | 0 | 314 | 737 |
| Printing & Writing | 604 | 170 | 1,186 | 1,620 |
| Tissue | 195 | 2 | 78 | 272 |
| Packaging & Industrial | 1,885 | 473 | 175 | 1,587 |
| Total | 3,107 | 644 | 1,753 | 4,216 |

¹ Source: Australian Bureau of Agricultural and Resource Economics (ABARE)

Consumption of Pulp

(*'000 tonnes*)

| | Production | Imports ¹ | Consumption |
|---------------|--------------|----------------------|--------------|
| Mechanical | 626 | 8 | 634 |
| Chemical | 638 | 317 | 955 |
| Semi-Chemical | 89 | 26 | 115 |
| Total | 1,354 | 351 | 1,705 |

¹ Source: Australian Bureau of Agricultural and Resource Economics (ABARE)

Sales Revenue (A3P Only)

(*\$ millions*)

| | Domestic | Export | Total |
|------------------------|--------------|------------|--------------|
| Pulp | 37 | 0 | 37 |
| Wastepaper | 5 | 14 | 19 |
| Newsprint | 402 | 0 | 402 |
| Printing & Writing | 612 | 179 | 791 |
| Tissue | 462 | 36 | 498 |
| Packaging & Industrial | 534 | 116 | 650 |
| Total | 2,052 | 345 | 2,396 |

Printing & Writing includes directory paper and mechanical printing paper

Tissue excludes non-wovens and nappies

Figures do not include Visy and SCA



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Fixed Capital Investment (A3P Only) (\$ millions)

| | |
|-------------------|--------------|
| New South Wales | 768 |
| Victoria | 796 |
| Queensland | 120 |
| South Australia | 450 |
| Western Australia | 15 |
| Tasmania | 650 |
| | |
| <i>Total</i> | <i>2,799</i> |

Figures do not include Visy and SCA

Employment (A3P Only)

| | |
|-------------------|--------------|
| New South Wales | 1,183 |
| Victoria | 2,112 |
| Queensland | 341 |
| South Australia | 647 |
| Western Australia | 115 |
| Tasmania | 1,251 |
| | |
| <i>Total</i> | <i>5,649</i> |

Figures do not include Visy and SCA

Balance of Paper Trade (\$ millions)

| Product | Exports ¹ | Imports ¹ | Trade Balance |
|--------------------|----------------------|----------------------|-----------------|
| Paper and Board | 621.7 | 2137.9 | -1516.2 |
| Wastepaper | 96.6 | 2.3 | 94.3 |
| Pulp | 4.4 | 225.1 | -220.7 |
| Paper Manufactures | 116.1 | 442.0 | -325.9 |
| | | | |
| <i>Total</i> | <i>838.8</i> | <i>2,807.3</i> | <i>-1,968.5</i> |

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Energy Consumption (TJ)

| | |
|---------------------------------|--------|
| Primary Energy Purchased | |
| Black Coal | 5,184 |
| Brown Coal | 2,086 |
| Natural Gas | 18,832 |
| Fuel Oil | 773 |
| Steam | 1,510 |
| <i>Sub Total</i> | 28,385 |
| Energy Recovered on Site | |
| Black Liquor | 8,311 |
| Biomass (primarily wood) | 2,864 |
| <i>Sub Total</i> | 11,175 |
| Electricity Purchased | |
| Hydro | 3,396 |
| Other | 7,081 |
| <i>Sub Total</i> | 10,478 |
| Total | |
| | 50,038 |

% Renewable 29.1%

Wood Fibre Inputs (A3P Only) ('000 green tonnes)

| Fibre Inputs | Softwood | Hardwood | Total |
|------------------------|----------|----------|-------|
| Pulp Logs | | | |
| Plantation | 1,828 | 303 | 2,131 |
| Regrowth Native Forest | 0 | 656 | 656 |
| Sawmill Residue | 327 | 132 | 459 |
| Total | | | |
| | 2,156 | 1,091 | 3,247 |

Wastepaper Collections

('000 tonnes)

| | Mixed incl. Pack. & Ind. | Newsprint | Printing & Writing | Magazines | Liquid Cartonboard | Total |
|-------------------------|-----------------------------|-----------|-----------------------|-----------|-----------------------|-------|
| Collections | 1,592 | 404 | 153 | 75 | 7 | 2,230 |
| Imports | 0 | 0 | 0 | 0 | 0 | 0 |
| Exports | 298 | 58 | 13 | 5 | 0 | 374 |
| Sales to other domestic | 14 | 1 | 0 | 0 | 0 | 15 |
| Net Fibre | | | | | | |
| | 1,280 | 345 | 140 | 70 | 7 | 1,841 |



Australian Paper Industry Statistics 2004-05

Recovered Paper Usage

Used in production of...

('000 tonnes)

| | Packaging & Industrial | Newsprint | Printing & Writing | Tissue | Market Pulp | Total |
|-----------------------------|------------------------|------------|--------------------|----------|--------------|--------------|
| Mixed incl. Pack. & Ind. | 1,303 | 0 | 0 | 0 | 0 | 1,303 |
| Newsprint | 48 | 98 | 0 | 0 | 4 | 150 |
| Printing & Writing | 58 | 0 | 26 | 7 | 50 | 141 |
| Magazines | 8 | 62 | 0 | 0 | 0 | 70 |
| Liquid Cartonboard | 0 | 0 | 5 | 0 | 0 | 5 |
| <i>Total from Recovered</i> | <i>1,417</i> | <i>160</i> | <i>31</i> | <i>7</i> | <i>54</i> | <i>1,668</i> |
| Yield | 90% | 85% | 70% | 70% | <i>Total</i> | |
| Recycled Fibre Content | 1,324 | 136 | 22 | 5 | 1,486 | |
| Virgin Fibre & Additives | 561 | 287 | 582 | 152 | 1,583 | |
| Paper Production | 1,885 | 423 | 604 | 157 | 3,069 | |
| Paper Consumption | 1,587 | 737 | 1,620 | 272 | 4,216 | |
| Utilisation Rate | 70.2% | 32.1% | 3.6% | 3.1% | 48.4% | |
| Recovery Rate | | | | | 52.9% | |

Greenhouse Gas Emissions ('000 tonnes CO₂-e)

| Emission Source | |
|-----------------------------|--------------------------|
| Indirect | |
| Purchased Electricity | 2,223 |
| Waste to landfill methane | 286 |
| | |
| Direct | |
| Natural Gas Combustion | 1303 |
| Coal combustion | 653 |
| | |
| <i>Total</i> | <i>4,464</i> |
| <i>per tonne production</i> | <i>1.36</i> excl methane |

Water Use

| | |
|-----------------------------------|---------------|
| Water use per tonne of production | 26.7 kL/tonne |
|-----------------------------------|---------------|

Water Quality

| | |
|---------------------------------|---------------|
| Discharges to Surface Water: | |
| Total Suspended Solids (TSS) | 1.05 kg/tonne |
| Biochemical Oxygen Demand (BOD) | 4.35 kg/tonne |
| Chemical Oxygen Demand (COD) | 9.52 kg/tonne |

Waste

| | |
|---|----------------|
| Waste to Landfill | 294,247 tonnes |
| Waste to Landfill per tonne of production | 96 kg/tonne |