

VALUE OF A PULP LOG

When it comes to pulp logs, some can be worth a lot more than others. Value depends on on a number of factors, including:

- 1) the species of tree;
- 2) whether it is a soft or hardwood;
- 3) the pulping process involved;
- and 4) what it will finally be used for.

SOFTWOOD
(Pines)

VS

HARDWOOD
(Eucalyptus & Wattle)

Produce long coarse fibres suited for packaging and newsprint.

Produce short fine fibres suited for fine paper, textiles and nanocellulose applications.

AMOUNT PRODUCED

SMALL QUANTITIES



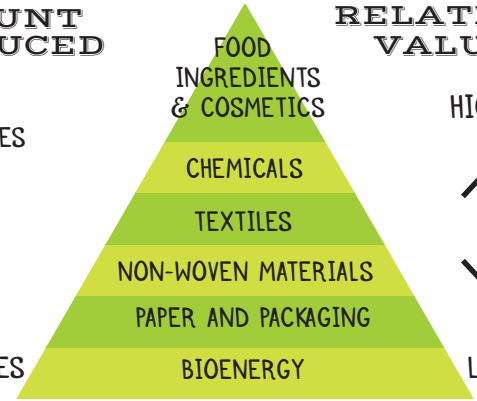
LARGE QUANTITIES

RELATIVE VALUE

HIGH



LOW



BONDING AGENTS

These are used in: Cement, paint, fertilizer, dust retardant, energy production, etc...

PULP IS BROKEN DOWN INTO 3 MAIN PARTS

LIGNIN

HEMI CELLULOSE

CELLULOSE

SUGARS AND ORGANIC ACIDS

These are used in the making of many chemicals:
Xylitol - a wood sugar alcohol used as a sweetener.

Sorbitol - a glucitol, sugar alcohol, that the human body metabolises slowly.

1 CELLULOSE FIBRE



USES: Paper, packaging, bags, boxes, cartons, etc...

2 FIBRE

3 MICROFIBRIL MATRIX

That holds the individual microfibrils together in larger groupings.

3

4 MICROFIBRILS

USES: Textiles, materials, viscose, etc...

4

BREAKING DOWN CELLULOSE INTO ITS SMALLER COMPONENTS

5 NANOFIBRILS

6 NANOCRYSTALS

USES: Food, cement, medicine, batteries, LED screens, touch screens etc...

