

**OSAGE ORANGE** is from wood chips, shavings or sawdust from the *Maclura Pomifera* tree and gives similar dyeing results to Fustic. The tree is growing wild throughout the south and central United States. You will get clear bright yellows, soft yellows, green yellows and mossy greens with alum and mossy greens with iron. It has very high light and wash fastness. To get good depth of shade use 20- 30% WOF.

### MORDANTING

#### PROTEIN

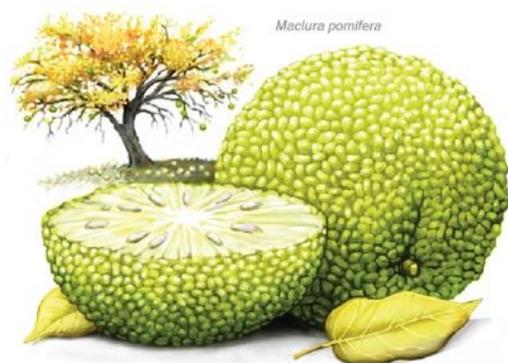
Use alum at 15% WOF

#### CELLULOSE

Use tannin at 8% WOF

Use alum at 15% WOF or alum acetate at 8% WOF

**DYEING** Soak the wood chips, shavings or sawdust in water overnight. Bring to the boil and cook for 1 hour. Strain off the dye liquid and use this to when you make up your dyebath. Add the fibre to the dyebath and simmer gently for 45 – 60 mins. If you add a little copper it will give you brighter yellows. If you add iron it will give you mossy olive greens. You can overdye with Indigo for bright greens. You can extract more dye from the used shavings by boiling them again or you can dry these for later use.



**FUSTIC** is the heartwood of a tree from the Mulberry family, *Chlorophora tinctoria*. Fustic used to come as wood chips but is now more commonly available as liquid concentrate or powder extract. It has become rarer as time goes on. Fustic gives a range of yellows without mordants, yellows & oranges with alum, lichen greens with iron but is also used as an under dye with Indigo for greens and teals. Fustic has high light and wash fastness but it can darken with exposure to sunlight. To get good depth of shade use 1 to 2% WOF.

### MORDANTING

#### PROTEIN

Use alum at 15% WOF

Use iron at 2 – 4% WOF

#### CELLULOSE

Use alum at 15% for protein fibres and cellulose fibres (there is enough tannin in fustic so that mordanting with tannin is not required).

**DYEING** Fustic Extract can be added straight into the dyebath. Make sure that the dyebath temperature doesn't exceed 85C for wool, cotton & silk or the colour will turn to a dull brown. With the addition of copper at 2-4% WOF fustic yields clear, bright yellows. Overdied with madder or cochineal, fustic will give true reds. Overdied with logwood it will give rich olive greens.

