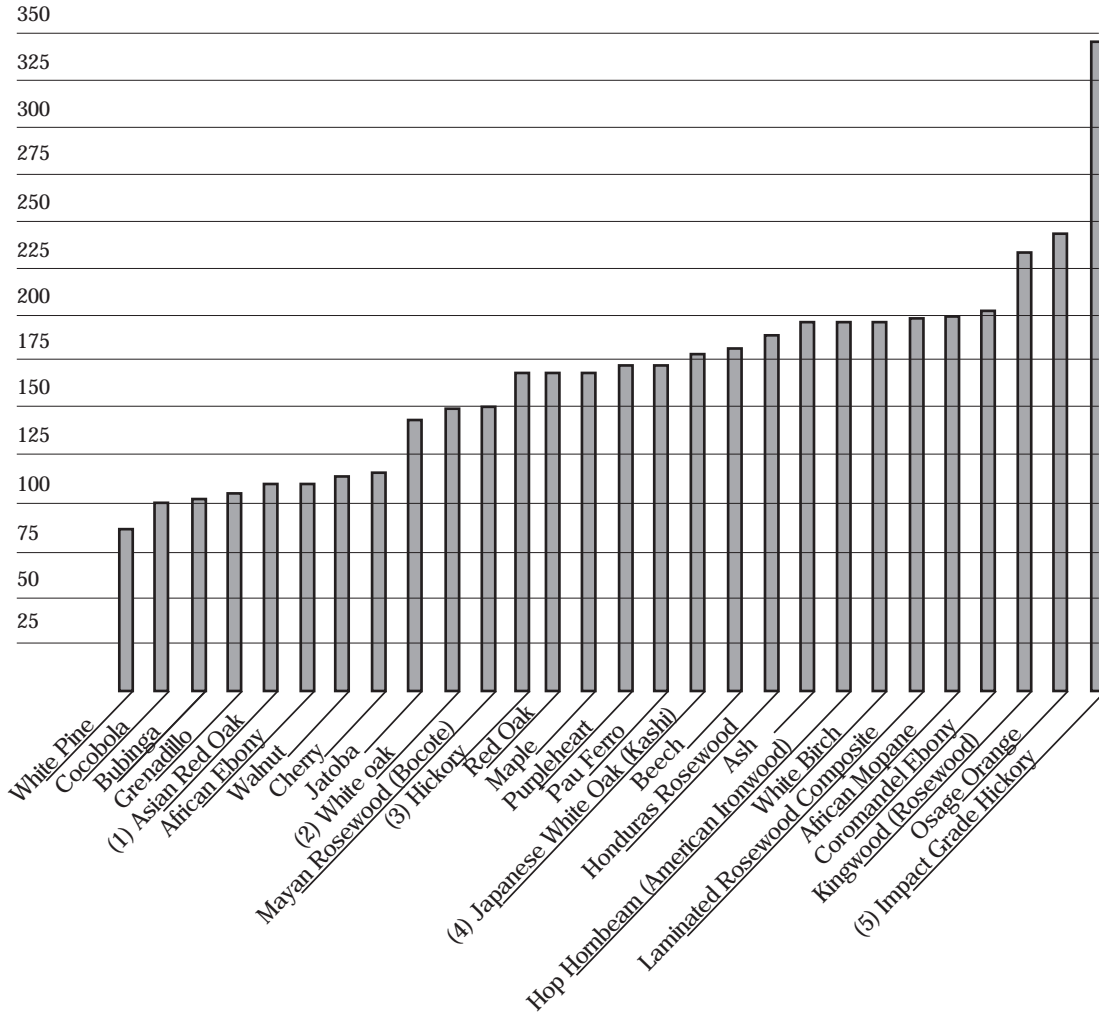


## IMPACT STRENGTH OF MATERIALS



**Notes**

- 1) "Asian Red Oak" refers to the wood used in mass produced items available at most martial art supply stores.
- 2) White Oak refers to North American White Oak.
- 3) Commonly available Hickory and Pecan is widespread over North America. Many have only average impact strength.
- 4) The value for Kashi would have been higher if older samples were not included in the test. It appears that oak in general gets brittle as it ages. Older samples had values little over 100, the strongest fresh sample was 256.
- 5) Samples in this test included wood with severe grain run off that lowered the average to 345. The weakest sample had a respectable strength of 175 while the strongest had an incredible value of 484.