

Cellulose Content—Arundo donax

42-50%---cellulose

20-24%---hemicelluloses

10-20%---lignin

4%---ash

1-2%---silica

5.98%---bound water to the cellulose-hemicellulose-lignin

Analyzed five different stems of Arundo donax by Donald J. Casadonte, "The Clarinet Reed: An Introduction to its biology, Chemistry and Physics" Ohio State University, 1995

Net Energy Comparison to Miscanthus

Yield ---34 % better

Net Energy GJ per acre---36% better

Petro Equiv.---40% better

Coal Equiv.--- 33% better

Table 1.7 from the Australian Government RIDRC report