

Group:	Cellulosics to EtOH/BuOH(4) – McKinley Room
Facilitator:	Bill Orts
Recorder:	Randy Raper/Maureen Whalen
Presenter:	Bob Avant

For each of the three major Components, what should be the ARS research priorities over the next five years?

Please make priorities clear, concise and unambiguous
Please list highest priority at the top

▪ **Feedstock Development (maximum of 10)**

Biomass improvement breeding - Need to breed for 10+ tons/acre (sorghum) {55}
Adequate supplies of feedstocks (5-90 million acres) {38}
High tonnage supplies (not residue) {36}
Which crops should be researched? {34}
Dual crop use efficiency {34} (Food and feed grain-residue for fuel)
Water use efficiency breeding {25}
Molecular techniques for improvement {15}
GM for improved pre-treatment {8}

Relative weight (0-10)=

▪ **Feedstock Production (maximum of 10)**

Production logistics - Harvesting/moving/storage/density issues {62}
Sustainable rotation systems {53}
Agronomic issues – pest, disease, fertilizer, storage {39}
Where should crops be grown {31}
Carbon sequestration/carbon removal/modeling verification {21}
Conservation issues/benefits {11}
Production response curves for all curves [7]
Feed and fuel for irrigated systems {7}
Nitrogen fixing rotation/cover crops {4}

Relative weight (0-10)=

▪ **Conversion & Co-Products (maximum of 10)**

Development of higher energy content biofuels {63}
Pretreatment {58}
Thermoconversion {43}
Biocatalysis systems {38}
More emphasis on silage, possibly pretreatment in field {30}
Energy content {12}

Relative weight (0-10)=