

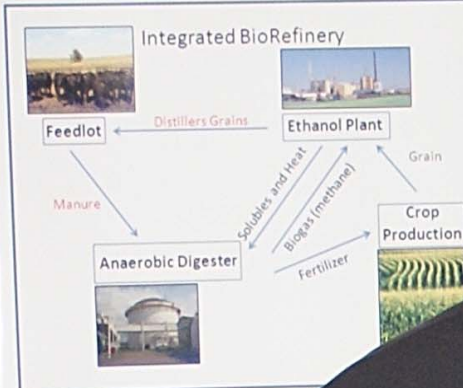


Methane Production via Anaerobic Digestion of Manure

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Introduction



Trial 1

Seven, 1 L anaerobic digester

Cattle Diets:
Control
82.5%
5% M
7.5%
5% S



Trial 2

Cattle Housing:
Manure OM

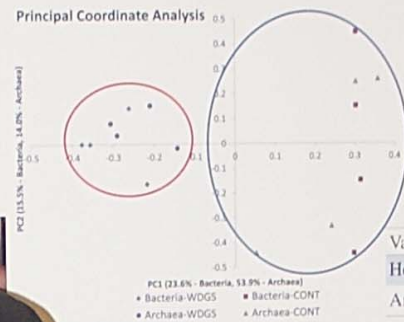
Trial 3

Ten, 45 L anaerobic
Cattle Housing:
"Pure" manure
Soil surface of pen
Stockpiled
Fresh
Cement pad

Results

Trial 1: Effects of cattle diet on microbial community

Principal Coordinate Analysis



Variation in Microbial Community
Homova: 0.019
Amova: 0.001

Trial 1: Effects of cattle diet

CONT	WDGS	SEM	P-value	C	value
42.7	44.9	1.06	0.05	39	< 0.01
51.0	52.9	1.14	0.10	46.7	< 0.01
0.551	0.634	0.05	0.10	0	0.01
0.116	0.137	0.01			

ure from cattle fed WDGS
d CONT

ry changes can lead to
tunities to alter metha

ot manure can be u

In progress
ecally harvesting m
and allow the fee

Andrea Watson
Animal Science