21 responses

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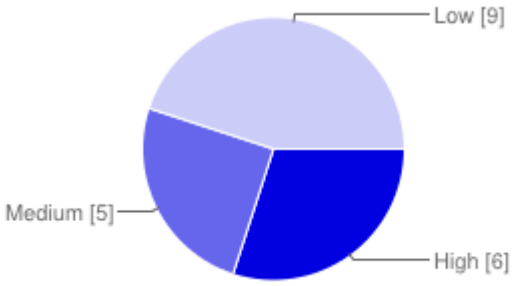
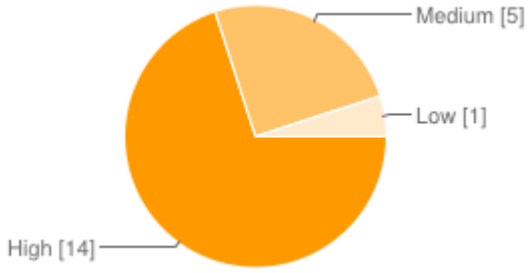
Summary

Aerobic/liquid manure digester



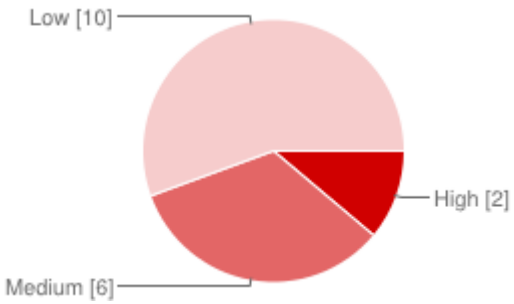
High	**6**	30%
Medium	**5**	25%
Low	**9**	45%

Liquid/solid separation



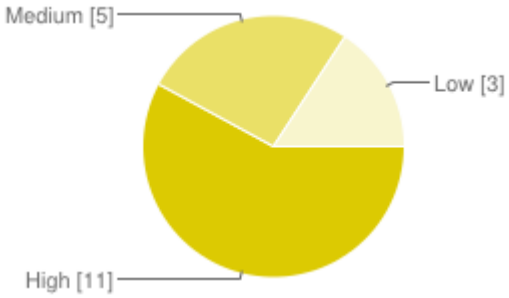
High	**14**	70%
Medium	**5**	25%
Low	**1**	5%

Enzyme digestion



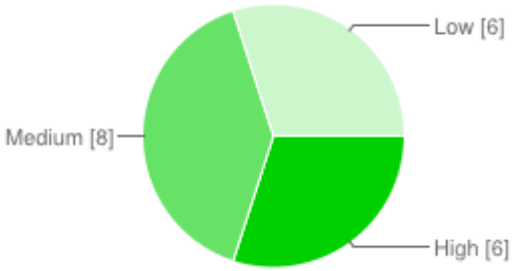
High	**2**	11%
Medium	**6**	33%
Low	**10**	56%

Anaerobic digestion



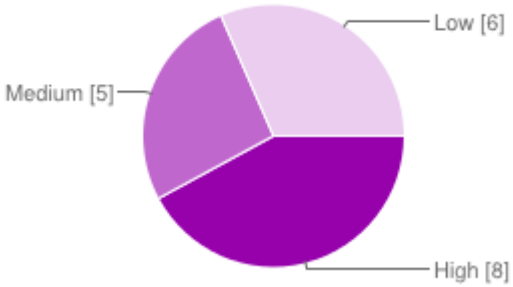
High	**11**	58%
Medium	**5**	26%
Low	**3**	16%

Thermochemical treatment of manure and poultry litter



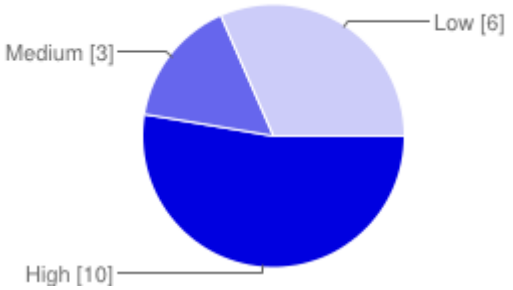
High	**6**	30%
Medium	**8**	40%
Low	**6**	30%

Phosphorus removal



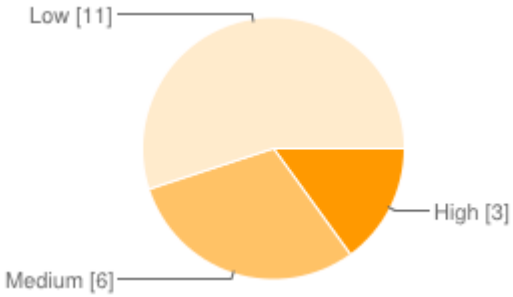
High	**8**	42%
Medium	**5**	26%
Low	**6**	32%

Composting



High	**10**	53%
Medium	**3**	16%
Low	**6**	32%

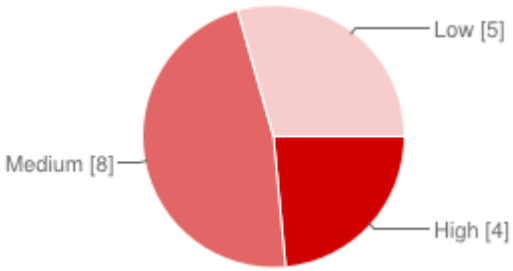
Biological N removal



High	**3**	15%

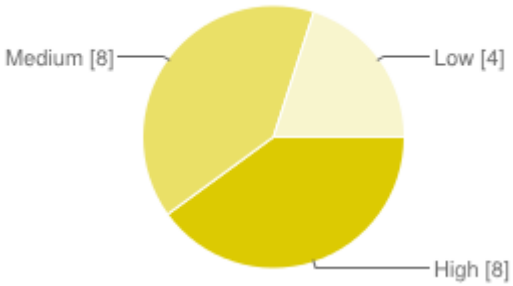
Medium	**6**	30%
Low	**11**	55%

Pelletizing



High	**4**	24%
Medium	**8**	47%
Low	**5**	29%

Treatments for reducing ammonia volatilization and phosphorus solubility



High	**8**	40%
Medium	**8**	40%
Low	**4**	20%

Additional Recommendations

Recommended Technology	Priority
Liquid/Solid Separation	High
Gasification to generate energy from manure	Low
AD	High
sand seperation	High
baled poultry litter	High
Monitor TMR P for Dairies	High
Poultry Litter direct burning for heat	High
Pyrolyisis	High
Fluidized co-digestion & cogeneration	Low
Gasification	High
manure injection	High
Pelletizing	High
constructed wetlands to treat manure	Low
Chemical Ammendments	Medium

Comments and Suggestions

Please include any additional recommendations in the space below.

System changes should be considered as a bmp. For example, moving from a liquid system to a dry pack system should qualify as a bmp. This is not a high tech bmp but can be very effective. You get some composting action and can hold the manure till it can be spread in appropriate times and can also be moved off farm.

Although not a "manure treatment" we still have opportunities in feeding strategies to reduce N and P excretion.

The baled poultry litter technoloy is being pursued in WVa. as a means to export litter to the midwest (and return phosphorus to the grain production areas.) The wrapping process should minimize ammonia volatization and provide some pathogen reduction. Even if the facility is built in WVa. , it would be able to handle litter from Va. as well.

manure digestion is not a technology that I would recommend for funding using CB program funds. I would not support using CB program funds to support pelletizing either, that should be market driven

we should focus on enviromental responsible ways to get manure to crops in a the best nutrient treatment is crop uptake.

Liquid-solids separation would typically be part of a treatment "system" and should have equivalent priority