## Feederhouse Debris Cleaner

Ross Chapman, Brad Craycraft, & Joe Riner April 20, 2006

## Problem Statement:

Design a fan similar to a leaf blower that will keep debris from building up on top of the feederhouse of a combine. It should engage with the header control and be able to withstand the environment it will be in.

## Objectives:

- Design the apparatus necessary for a mechanically driven squirrel cage fan.
- Design the apparatus necessary for an electrically-powered squirrel cage or centrifugal fan.
- Design the apparatus necessary for a hydraulically-driven centrifugal cage fan.
- Construct and evaluate the design approved by the sponsor,
  Mike Chapman of Chapman Farms Inc.

