Introduction

- No current computer model
- Home of Iowa football team
- On field conditions can be vital to coaching decisions and the outcome of games
- Current method of watching flag is unreliable and inaccurate

Project Goals

- Model the playing field wind conditions
- Model 3 different wind directions @ V = 10 mph
  - North
  - North West
  - West
- Model 3 different wind velocities
  - 5, 10, and 20 mph
- Validate model

First Attempt

- Use stadium blueprints along with Pro E and import model into Gambit

West Wind Field vs. Flags

- Flag height
- Field height

West Wind Field Recirculation

- Wind velocity 10 mph