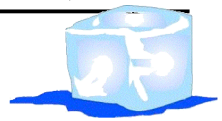
Agenda ~ April 5, 2005

❑**5:00 - 5:20**	**Ice Breaker** *(Lisa)*
❑**5:20 - 5:55**	**Basic Thermodynamics** *(Matt)* •First Law •Work •Heat •Energy
❑**5:55 - 6:15**	**Break/Business** •Plan for 5/19 MiniConf *(Lisa & Jonathon)* •Bowling Debrief *(Jinho)* •Other *(Jonathon)*
❑**6:15 - 6:45**	**Wind Tunnel Experiment Closure**
❑**6:45 - 7:00**	**Intro to Compressible Flow** *(Dale)*

Ice Breaker

Do you know everyone's name?

- Go around the room and each person states their first name
- Arrange yourselves in alphabetical order (A to Z)
- BUT, here is the catch…. You must do it *SILENTLY*



- Now, each person states their FIRST & LAST name
- Arrange yourselves AGAIN by LAST name (A to Z)
- Without any talking!

Exploring Closing Ceremony

- THURSDAY, MAY 19

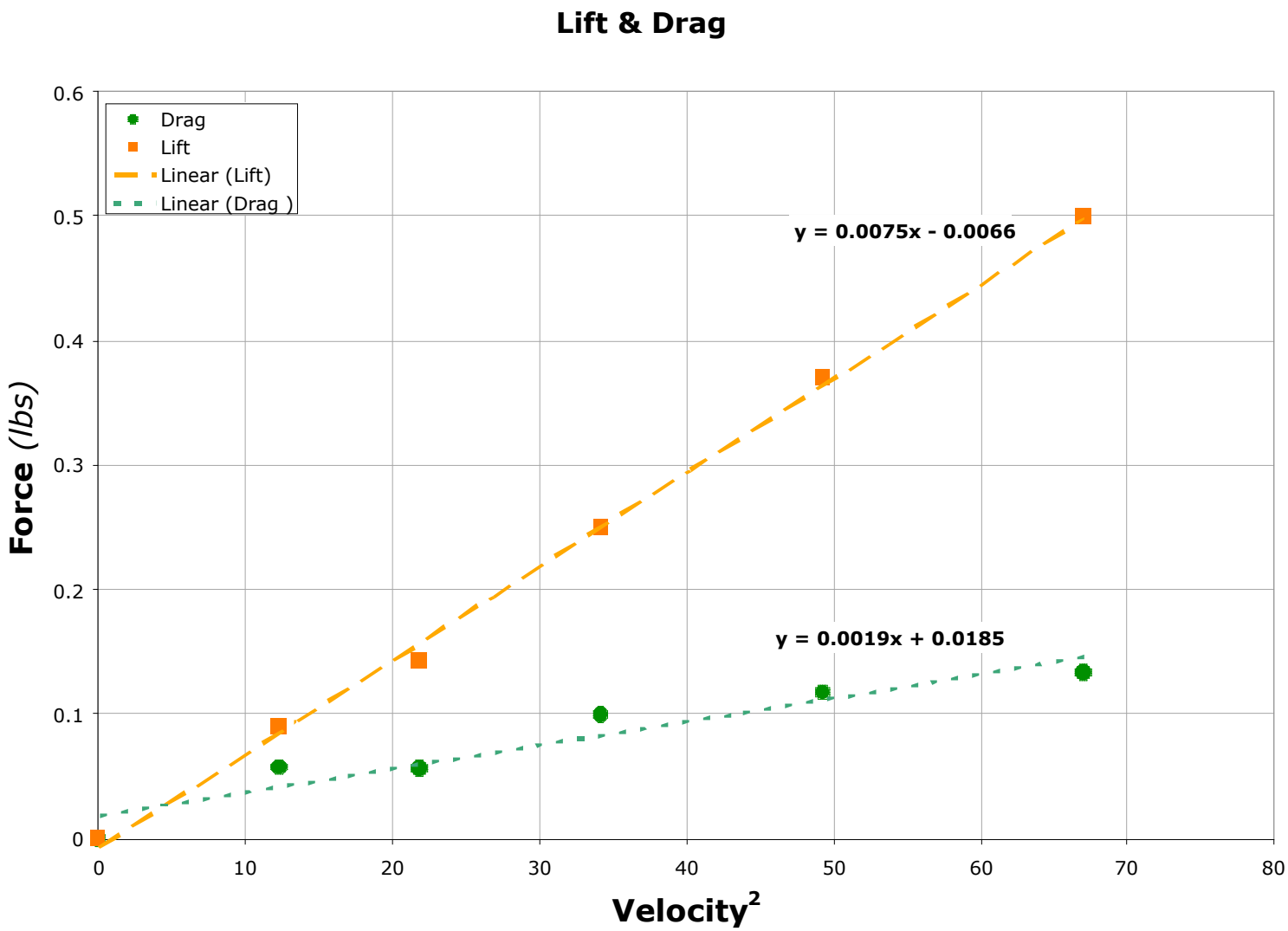
- All NASA Explorers Posts attending
  - Explorers Post 630 - Aeronautics Explorers
  - Explorers Post 631 - Computer Technology
  - Explorers Post 632 - BalloonSat

- You, the students, need to create a PowerPoint presentation with the important items we did this year to show the other students and guests

- … so, what did we do??

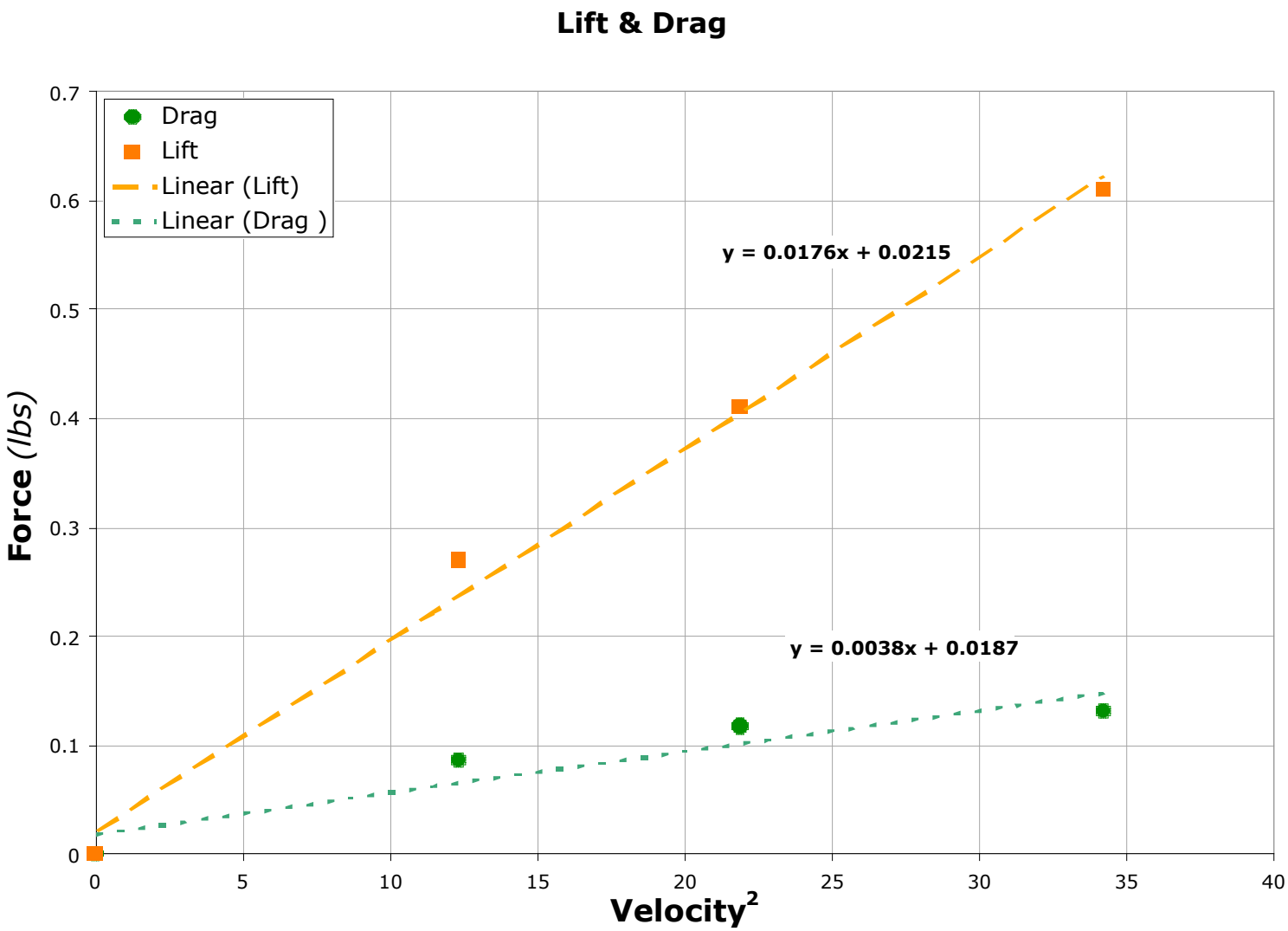
Wind Tunnel Testing Pictures

Wind Tunnel Lift & Drag Graphs



Lift/Drag
1.58
2.55
2.52
3.16
3.76

Wind Tunnel Lift & Drag Graphs



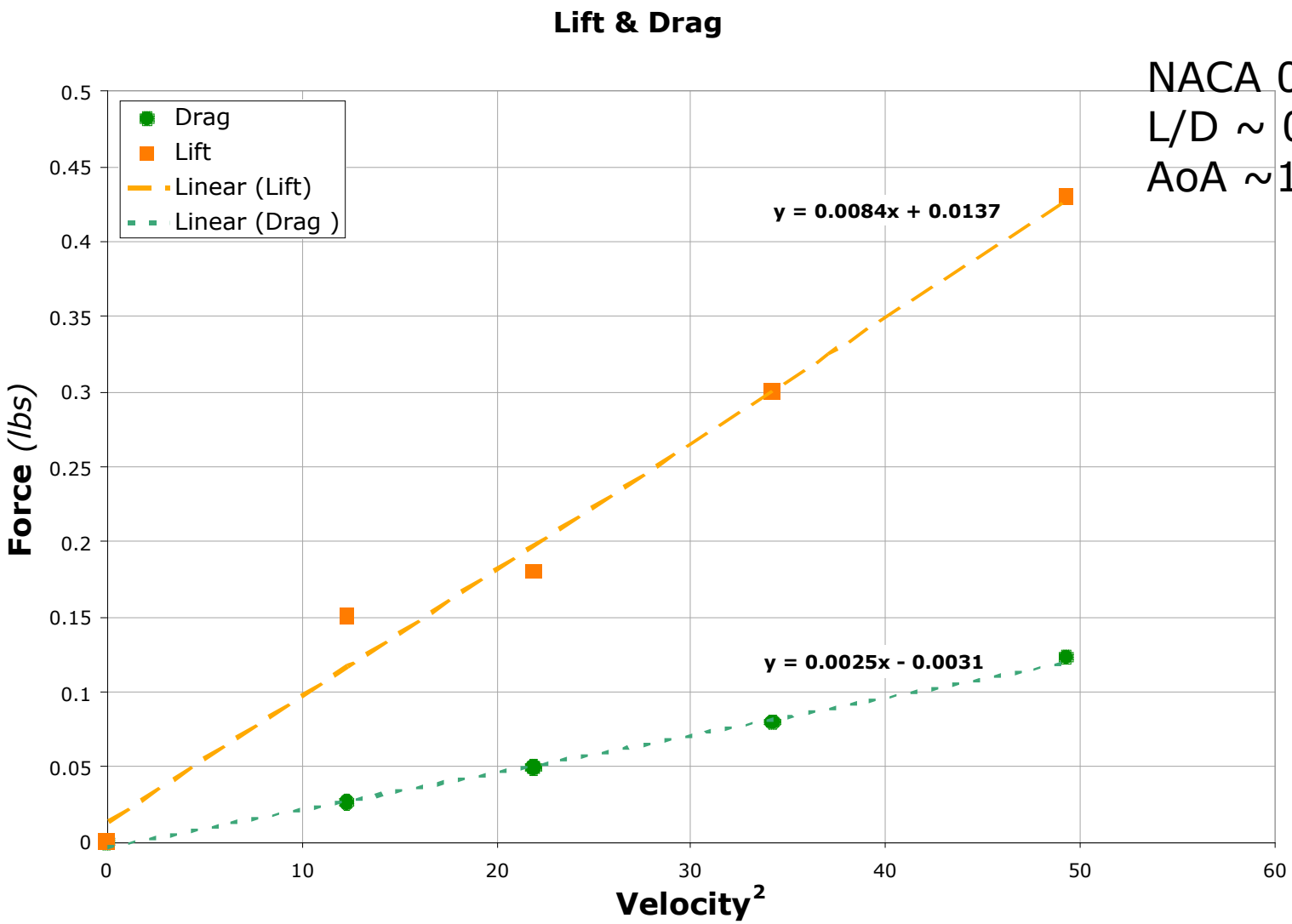
Lift/Drag

3.15

3.50

4.66

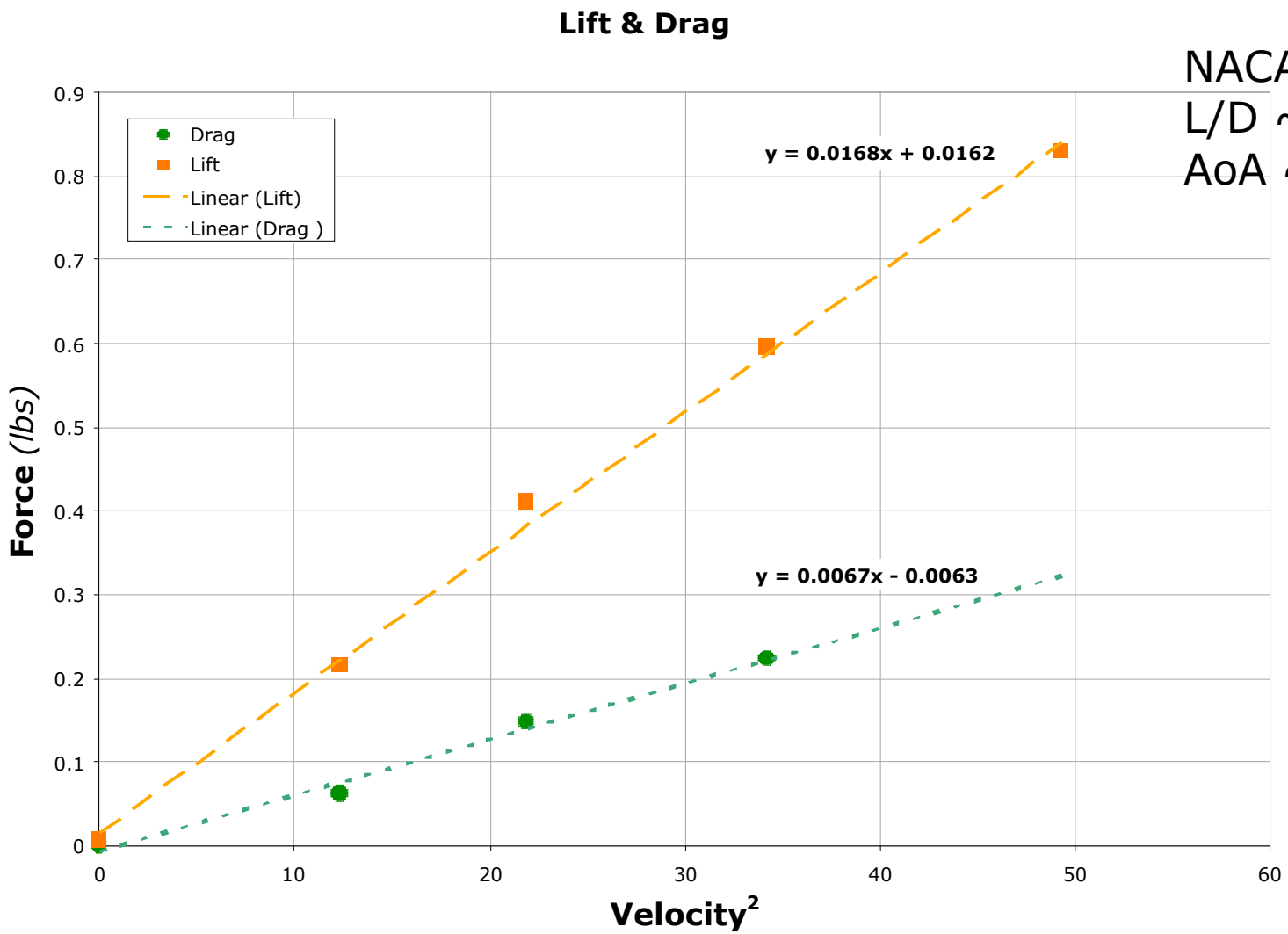
Wind Tunnel Lift & Drag Graphs



NACA 0006
L/D ~ 0~80
AoA ~12 degrees

Lift/Drag
5.78
3.63
3.76
3.51

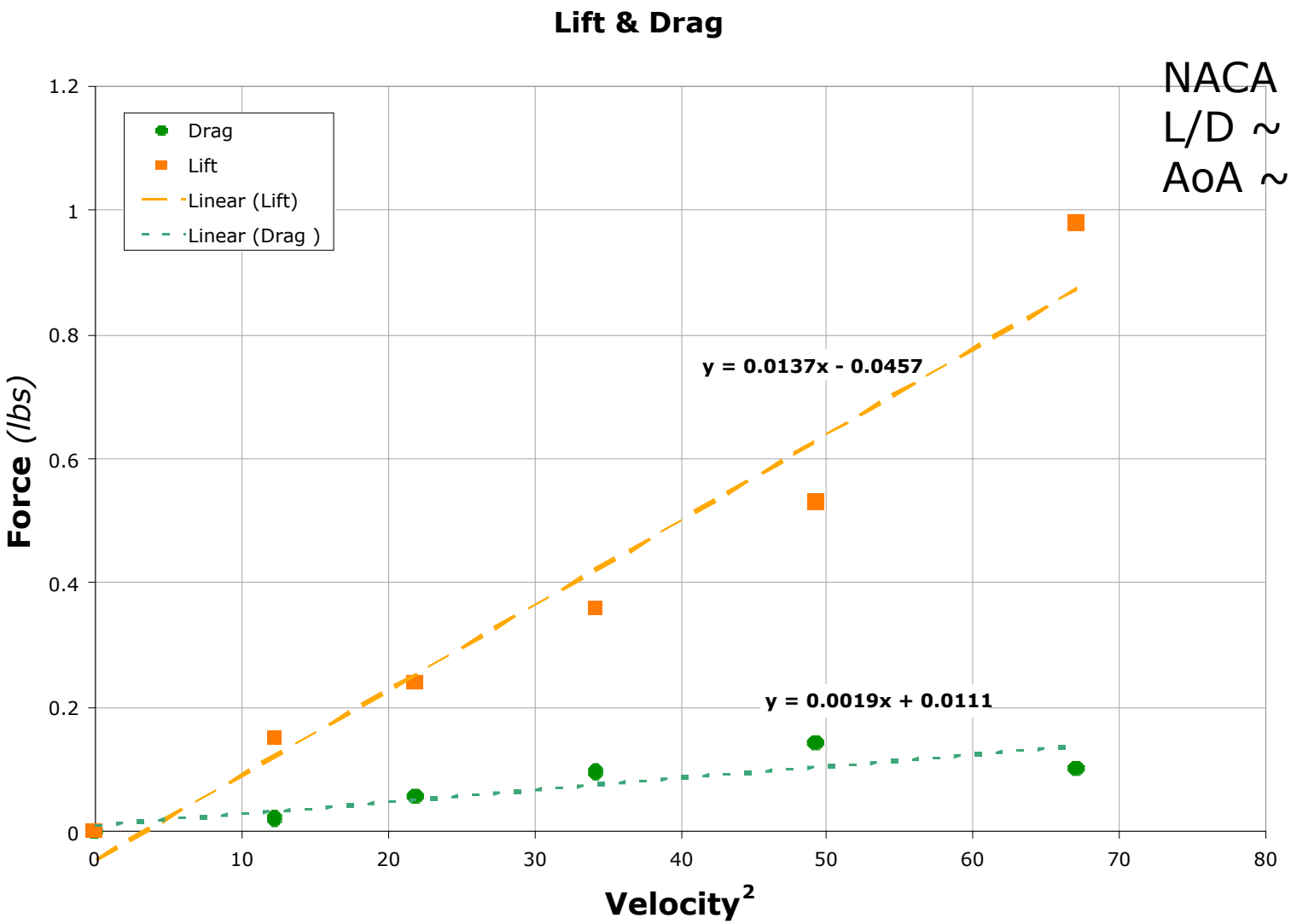
Wind Tunnel Lift & Drag Graphs



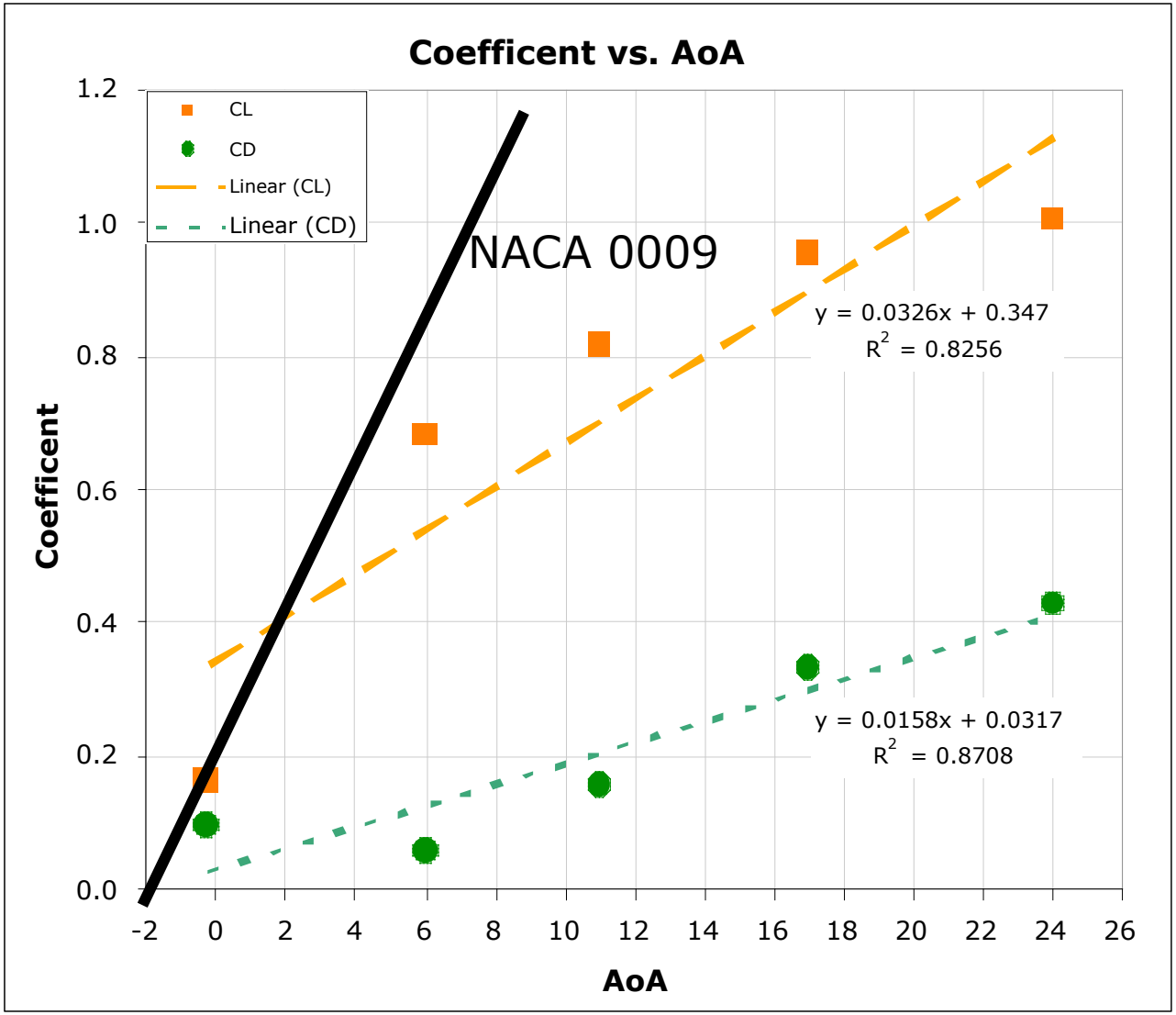
NACA 0006
L/D ~ 0~80
AoA ~12 degrees

Lift/Drag
3.47
2.79
2.67

Wind Tunnel Lift & Drag Graphs



NACA 0006
L/D ~ 0~80
AoA ~12 degrees

Lift/Drag
7.08
4.31
3.76
3.73
9.66

Wind Tunnel Angle of Attack (AoA)