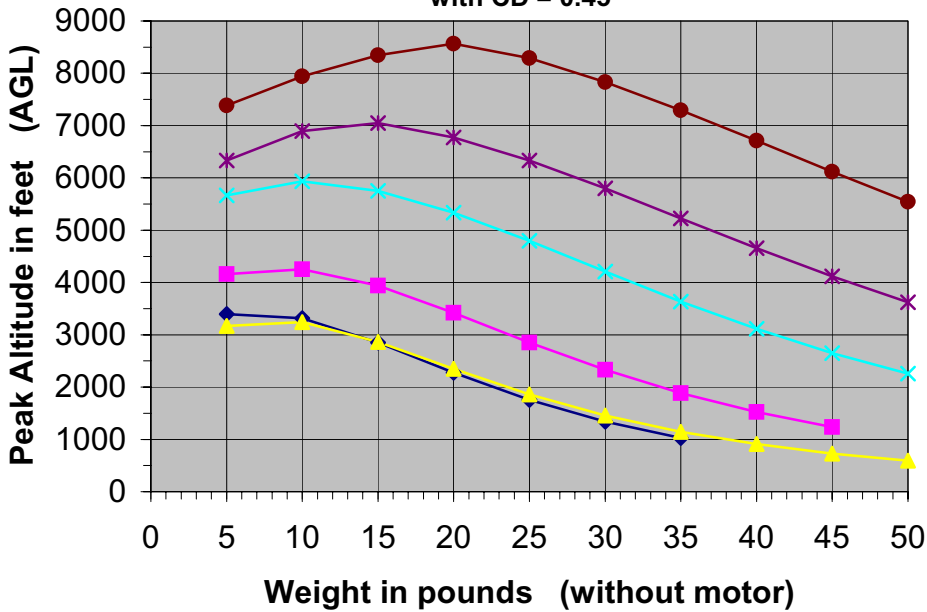


### Estimated Altitudes for 7.5" Diameter Rockets

with CD = 0.45



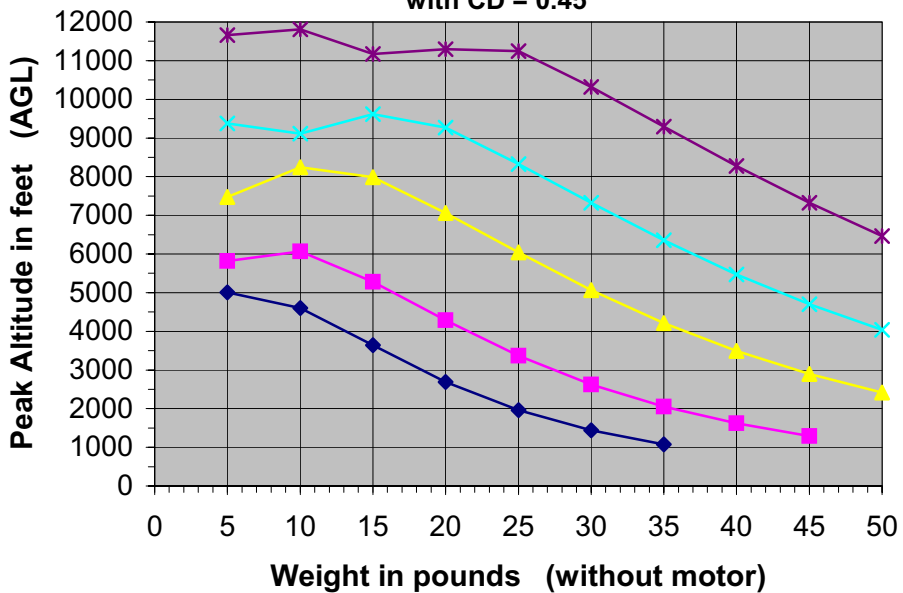
Environmental Conditions  
 3000 feet base altitude  
 75F air temperature  
 29.92 in-Hg Pressure  
 wRasp "Hot Day" setting

Results are from  
 wRASP v2.0.

Vern Knowles 2003

### Estimated Altitudes for 5.5" Diameter Rockets

with CD = 0.45



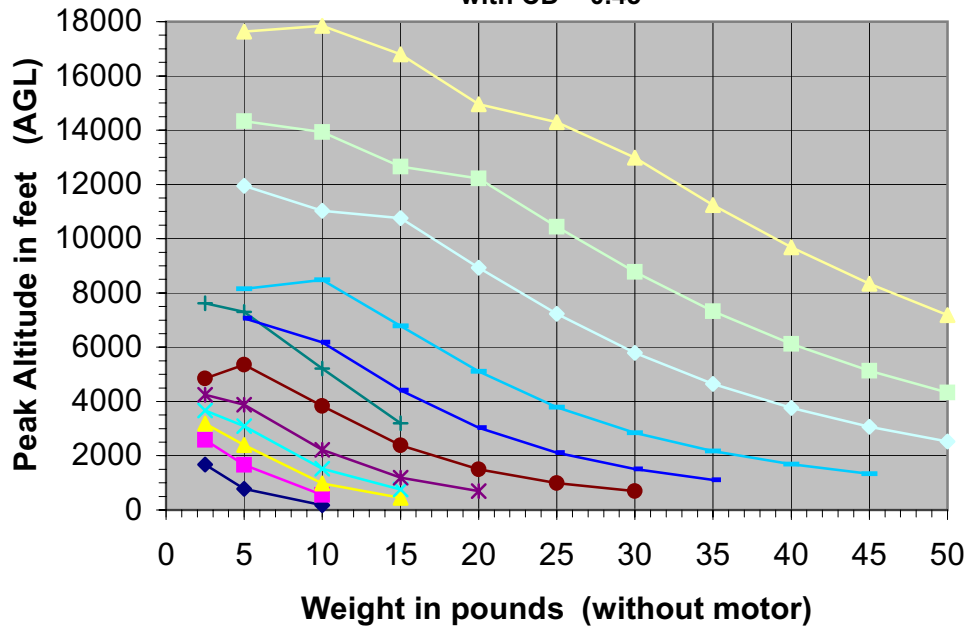
Environmental Conditions  
 3000 feet base altitude  
 75F air temperature  
 29.92 in-Hg Pressure  
 wRasp "Hot Day" setting

Results are from  
 wRASP v2.0.

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### Estimated Altitudes for 4.0" Diameter Rockets

with CD = 0.45



- ◆ H123W
- I161W
- ▲ I211W
- ✕ I284W
- ✱ J350W
- J570W
- + K185W
- K550W
- K700W
- ◇ L850W
- L1120W
- ▲ M1315

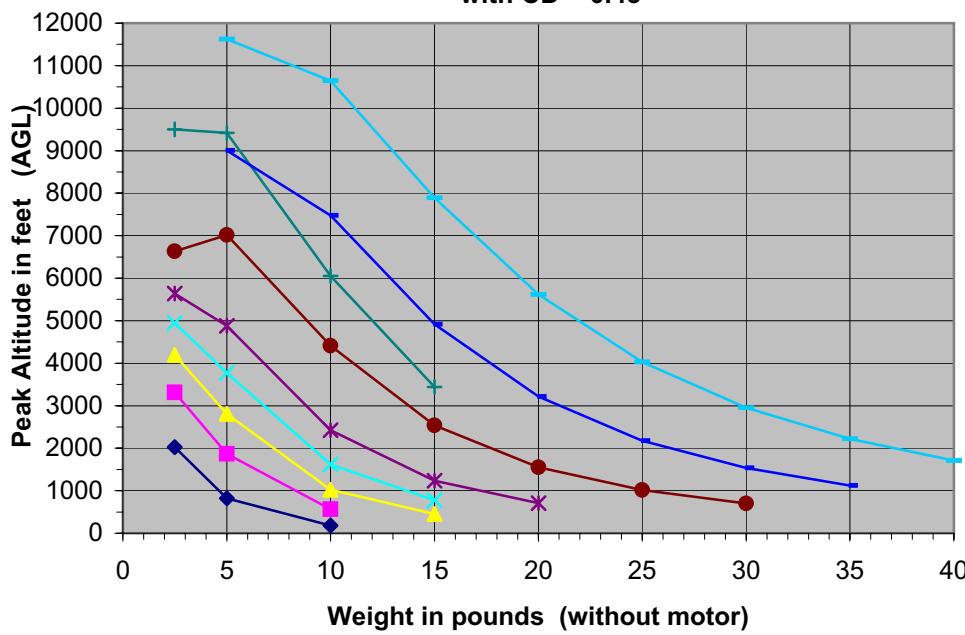
Environmental Conditions  
 3000 feet base altitude  
 75F air temperature  
 29.92 in-Hg Pressure  
 wRasp "Hot Day" setting

Results are from  
 wRASP v2.0.

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### Estimated Altitudes for 3.1" Diameter Rockets

with CD = 0.45



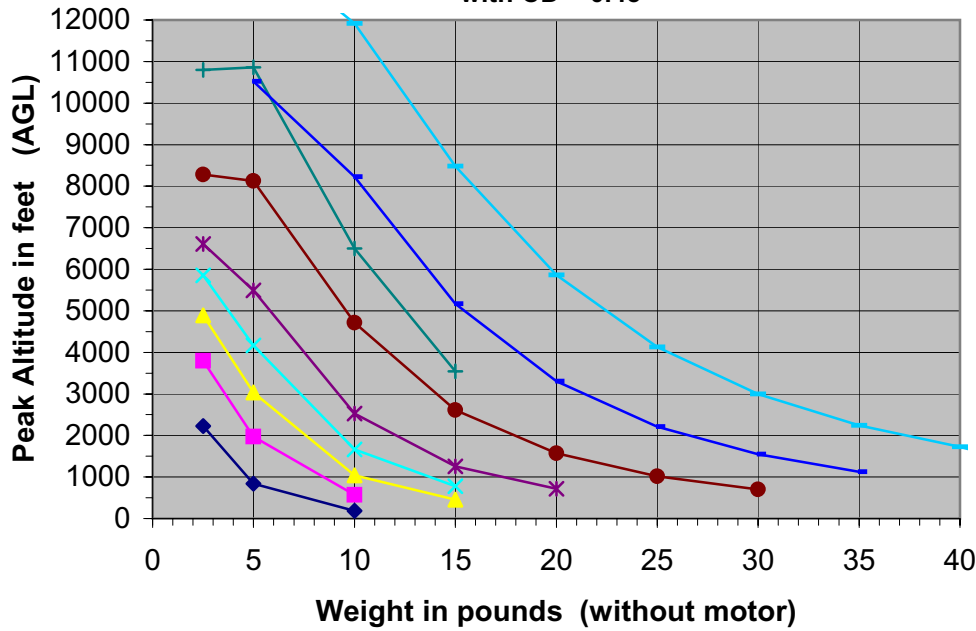
- ◆ H123W
- I161W
- ▲ I211W
- ✕ I284W
- ✱ J350W
- J570W
- + K185W
- K550W
- K700W

Environmental Conditions  
 3000 feet base altitude  
 75F air temperature  
 29.92 in-Hg Pressure  
 wRasp "Hot Day" setting

Results are from  
 wRASP v2.0.

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### Estimated Altitudes for 2.7" Diameter Rockets with CD = 0.45



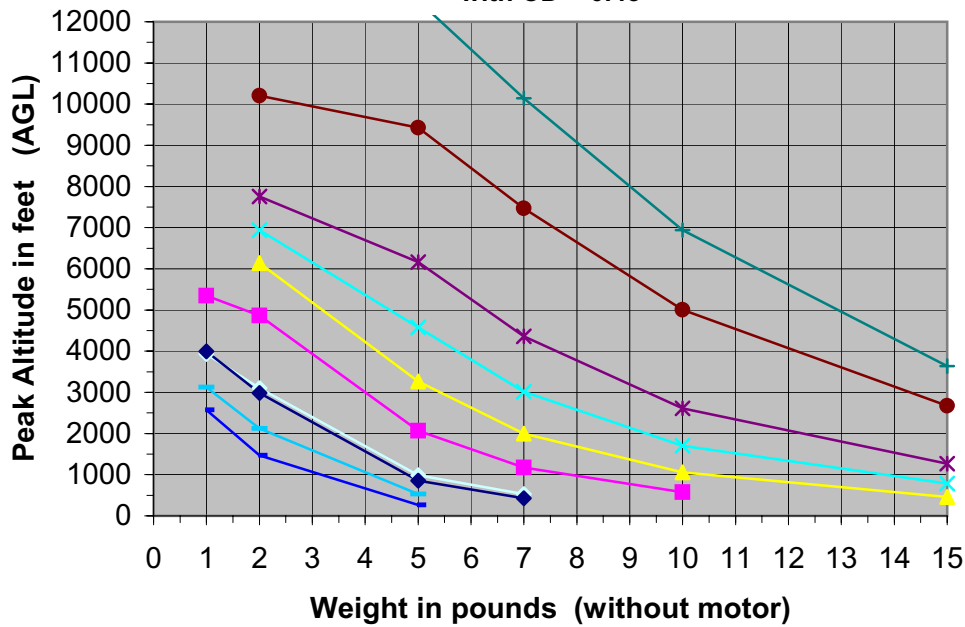
Environmental Conditions

3000 feet base altitude  
75F air temperature  
29.92 in-Hg Pressure  
wRasp "Hot Day" setting

Results are from  
wRASP v2.0.

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### Estimated Altitudes for 2.3" Diameter Rockets with CD = 0.45



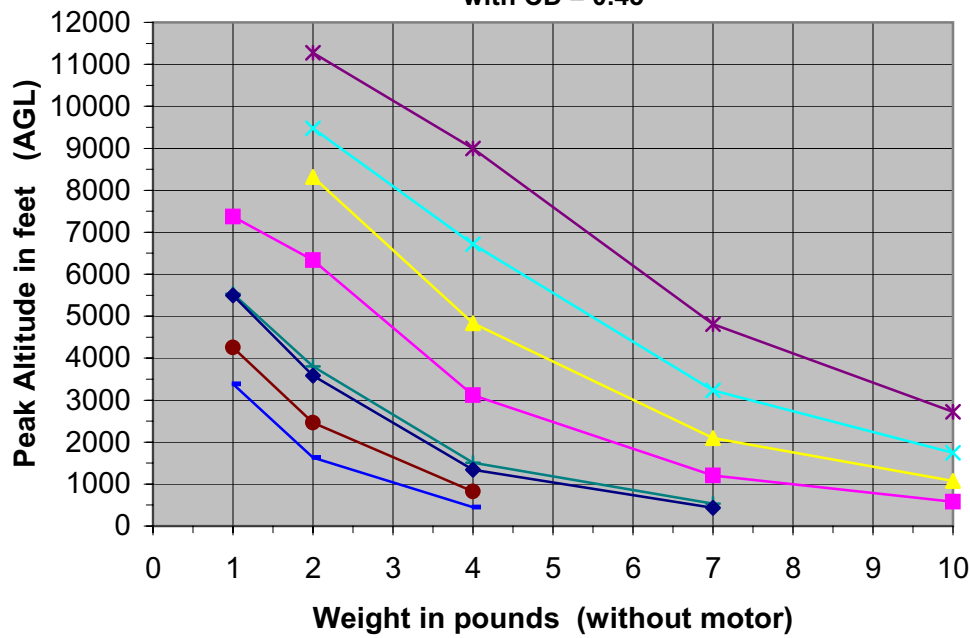
Environmental Conditions

3000 feet base altitude  
75F air temperature  
29.92 in-Hg Pressure  
wRasp "Hot Day" setting

Results are from  
wRASP v2.0.

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### Estimated Altitudes for 1.7" Diameter Rockets with CD = 0.45



- G64W
- H128W
- H180W
- H123W
- I161W
- I211W
- I284W
- J350W

Environmental Conditions  
3000 feet base altitude  
75F air temperature  
29.92 in-Hg Pressure  
wRasp "Hot Day" setting

Results are from  
wRASP v2.0.

Vern Knowles 2003