

Constraint Analysis

Landing

Runway Height [ft]	<input type="text" value="0"/>
STD Temp Diff [F]	<input type="text" value="31"/>
Landing Distance [ft]	<input type="text" value="5000"/>
Obstacle Height [ft]	<input type="text" value="50"/>
C_L_max	<input type="text" value="1.4"/>

Takeoff

Runway Height [ft]	<input type="text" value="0"/>
STD Temp Diff [F]	<input type="text" value="31"/>
Takeoff Distance [ft]	<input type="text" value="4400"/>
Obstacle Height [ft]	<input type="text" value="50"/>
C_L_max	<input type="text" value="1.0"/>

Rate of Climb

Velocity [kts]	<input type="text" value="458"/>
Height [ft]	<input type="text" value="35400"/>
STD Temp Diff [F]	<input type="text" value="31"/>
Rate of Climb [dh/dt]	<input type="text" value="90"/>
Power Setting <input checked="" type="radio"/> Maximum <input type="radio"/> Military	

Select Constraints

- ☒ Climb
- ☒ Cruise Climb
- ☒ Turn
- ☒ Takeoff
- ☒ Landing
- ☒ Max Speed
- ☒ Service Ceiling
- ☒ Rate of Climb

Operation

Analyse Constraints

Estimate Weights

Mission Summary

Reset/Default!

Cruise Climb

Velocity [kts]	<input type="text" value="458"/>
Initial Height [ft]	<input type="text" value="35400"/>
Final Height [ft]	<input type="text" value="38700"/>
Range [nm]	<input type="text" value="550"/>

Maximum Speed

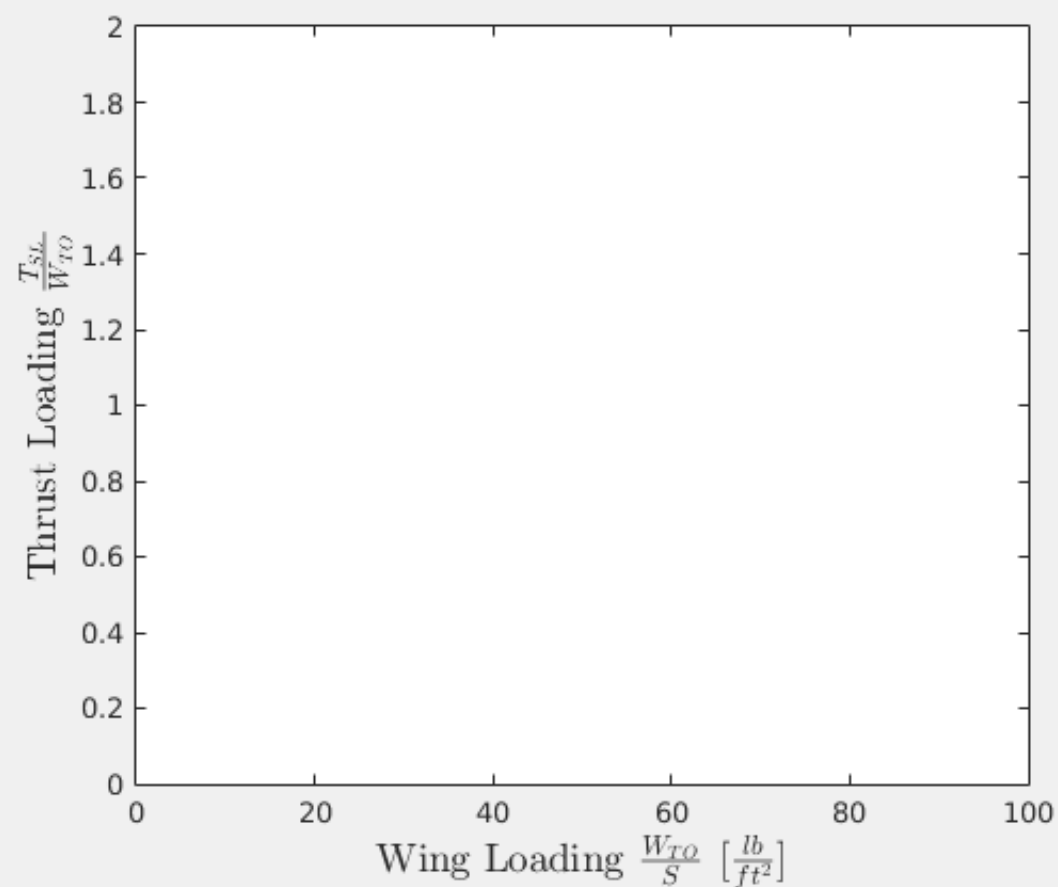
Velocity [ft/s]	<input type="text" value="1200"/>
Height [ft]	<input type="text" value="0"/>
STD Temp Diff [F]	<input type="text" value="31"/>
Power Setting <input checked="" type="radio"/> Maximum <input type="radio"/> Military	

Service Ceiling

Velocity [kts]	<input type="text" value="536"/>
Height [ft]	<input type="text" value="47550"/>
Power Setting <input checked="" type="radio"/> Maximum <input type="radio"/> Military	

Turn

Velocity [kts]	<input type="text" value="536"/>
Height [ft]	<input type="text" value="47550"/>
Load Factor	<input type="text" value="2"/>



Design Point

Decide a design point and click the operations above as needed