AIRCRAFT CENTER OF GRAVITY CALCULATIONS

Main screen with dropdowns for most common aircraft and airports, fuel weight calculations, passenger/cargo weights, with an option to convert to metric weight. This package was developed in Visual Basic 6 and complied to an .exe file that can be downloaded here.

Custom graphics to show all available seating arrangements for that aircraft model.
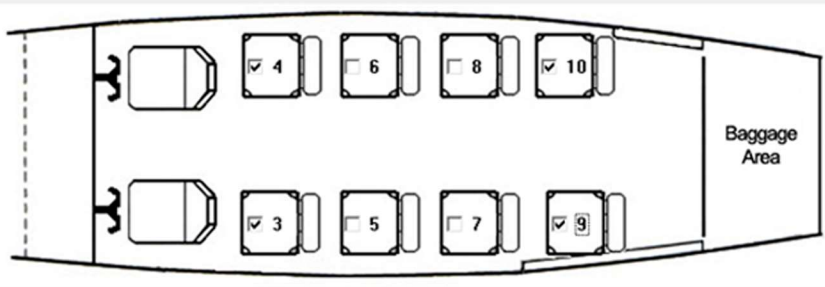
Custom graphics and built-in options to choose which seats will be occupied.

Calculations shown with inputs for last minute changes.
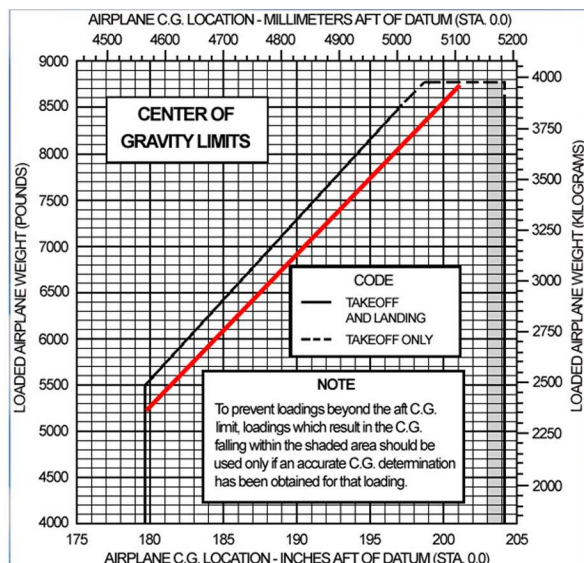
Finally, after performing scientific calculations that included up to 15 decimal points and verifying the results were within limits, the center of gravity throughout the entire flight was plotted and printed to a template identical to the required FAA form. The client had previously gathered data and performed the calculations manually then filled out the forms by hand, which could take the better part of a day.