

# CP Aviation, Inc.

830 East Santa Maria Street, No. 301

Santa Paula, CA 93060

(805) 525-2138

## Aircraft V-Speed, Weight, and Fuel Table

|                    | C-152      | C-150     |            |            |            | C-172 M                     |            | C-172 N    |            | C-172 P                             |                    | C-172 P 180HP     |                   | C-182 RG   |
|--------------------|------------|-----------|------------|------------|------------|-----------------------------|------------|------------|------------|-------------------------------------|--------------------|-------------------|-------------------|------------|
|                    | N5443L     | N704JH    | N704SL     | N704UT     | N714HH     | N30184                      | N80914     | N172EP     | N739MB     | N66168                              | N97172             | N99826            | N66MA             | N747PP     |
| Vso                | 35 kias    | 42 kias   | 42 kias    | 42 kias    | 42 kias    | 44 kias                     | 44 kias    | 41 kias    | 41 kias    | 33 kias                             | 33 kias            | 40 kias           | 40 kias           | 39 kias    |
| Vs1                | 40 kias    | 48 kias   | 48 kias    | 48 kias    | 48 kias    | 50 kias                     | 50 kias    | 47 kias    | 47 kias    | 44 kias                             | 44 kias            | 50 kias           | 50 kias           | 41 kias    |
| Vy                 | 67 kias    | 68 kias   | 68 kias    | 68 kias    | 68 kias    | 78 kias                     | 78 kias    | 73 kias    | 73 kias    | 76 kias                             | 76 kias            | 76 kias           | 76 kias           | 88 kias    |
| Vx                 | 55 kias    | 56 kias   | 56 kias    | 56 kias    | 56 kias    | 64 kias                     | 64 kias    | 59 kias    | 59 kias    | 60 kias                             | 60 kias            | 62 kias           | 62 kias           | 65 kias    |
| *Va                | 104 kias   | 97 kias   | 97 kias    | 97 kias    | 97 kias    | 97 kias                     | 97 kias    | 97 kias    | 97 kias    | 99 kias                             | 99 kias            | 105 kias          | 105 kias          | 112 kias   |
| Vno                | 111 kias   | 107 kias  | 107 kias   | 107 kias   | 107 kias   | 128 kias                    | 128 kias   | 128 kias   | 128 kias   | 127 kias                            | 127 kias           | 127 kias          | 127 kias          | 159 kias   |
| Vne                | 149 kias   | 141 kias  | 141 kias   | 141 kias   | 141 kias   | 160 kias                    | 160 kias   | 160 kias   | 160 kias   | 158 kias                            | 158 kias           | 158 kias          | 158 kias          | 181 kias   |
| Vle                | N/A        | N/A       | N/A        | N/A        | N/A        | N/A                         | N/A        | N/A        | N/A        | N/A                                 | N/A                | N/A               | N/A               | 110 kias   |
| Vlo                | N/A        | N/A       | N/A        | N/A        | N/A        | N/A                         | N/A        | N/A        | N/A        | N/A                                 | N/A                | N/A               | N/A               | 110 kias   |
| Vfe                | 85 kias    | 85 kias   | 85 kias    | 85 kias    | 85 kias    | 85 kias                     | 85 kias    | 85 kias    | 85 kias    | 85 kias                             | 85 kias            | 85 kias           | 85 kias           | 110 kias   |
| Vglide             | 60 kias    | 60 kias   | 60 kias    | 60 kias    | 60 kias    | 65 kias                     | 65 kias    | 65 kias    | 65 kias    | 65 kias                             | 65 kias            | 65 kias           | 65 kias           | 80 kias    |
| Vapr.              | 0 flaps    | 60 kias   | 60-70 kias | 60-70 kias | 60-70 kias | 60-70 kias                  | 60-70 kias | 60-70 kias | 60-70 kias | 65-75 kias                          | 65-75 kias         | 65-75 kias        | 65-75 kias        | 70-80 kias |
|                    | full flaps | 55 kias   | 50-60 kias | 50-60 kias | 50-60 kias | 55-65 kias                  | 55-65      | 55-65 kias | 55-65 kias | 60-70 kias                          | 65-75 kias         | 40-85 kias        | 40-85 kias        | 65-75 kias |
| Gross Weight (lbs) | 1670       | 1600      | 1600       | 1600       | 1600       | 2300                        | 2300       | 2400       | 2400       | 2407                                | 2400               |                   |                   | 3100       |
| Empty Weight (lbs) | 1117       | 1097.1    | 1102.1     | 1066.39    | 1104.4     | 1469.06                     | 1452.581   | 1457.67    | 1465.125   | 1539.93                             | 1587.65            |                   |                   | 1870.75    |
| Useful Load (lbs)  | 553        | 502.9     | 497.9      | 533.61     | 495.6      | 830.94                      | 847.419    | 942.33     | 934.875    | 867.07                              | 812.35             |                   |                   | 1229.25    |
| Usable Fuel (gal)  | 24.5       | 22.5      | 22.5       | 22.5       | 22.5       | 48 (LR)                     | 38         | 40         | 40         | 50 (LR)                             | 50 (LR)            | 40                | 50 (LR)           | 92         |
| Average Fuel Burn  | 6 gph      | 5 gph     | 5 gph      | 5 gph      | 5 gph      | 8 gph                       | 8 gph      | 8 gph      | 8 gph      | 9 gph                               | 9 gph              | 9.5 gph           | 9.5 gph           | 14 gph     |
| Oil Capacity       | 4-6 qts.   | 4-6 qts.  | 4-6 qts.   | 4-6 qts.   | 4-6 qts.   | 6-8 qts.                    | 6-8 qts.   | 6-8 qts.   | 6-8 qts.   | 6-8 qts.                            | 6-8 qts.           | 6-8 qts.          | 6-8 qts.          | 5-8 qts.   |
| Add Oil at...      | 4          | 4         | 4          | 4          | 4          | 6                           | 6          | 6          | 6          | 6                                   | 6                  | 6                 | 6                 | 7          |
| Aircraft Notes     | 30° flaps  | 40° flaps | 40° flaps  | 40° flaps  | 40° flaps  | long range tanks, 40° flaps | 40° flaps  | 30° flaps  | 30° flaps  | 30° flaps, 160 hp, long range tanks | 30° flaps, 160 hp, | 30° flaps, 180 hp | 30° flaps, 180 hp |            |

\* indicates speed listed is appropriate at max gross weight. Reduce value for lighter weights.

\* LR indicates Long Range Tanks

\* 172 P POH says 10 degrees of flaps can go down at 110 but CP policy doesnt allow that