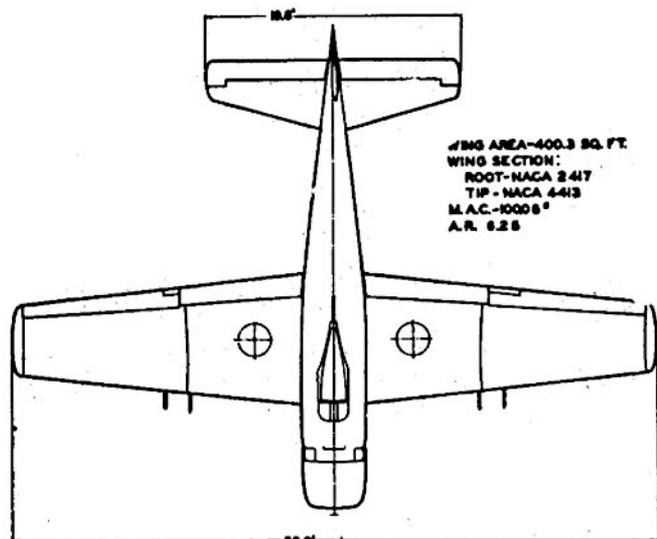




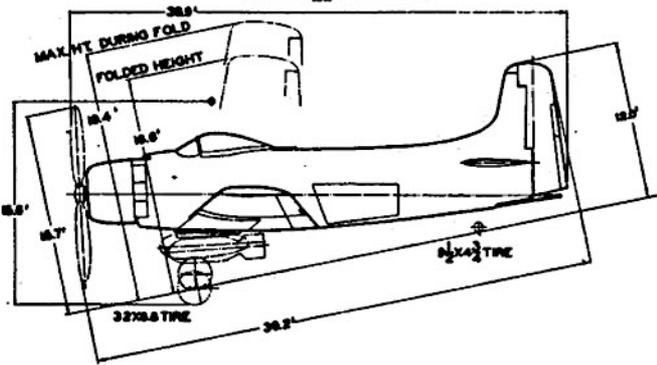
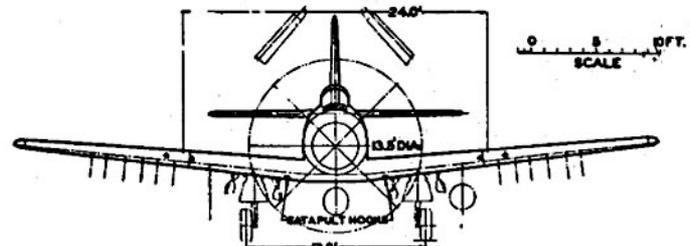
# STANDARD AIRCRAFT CHARACTERISTICS

A-1H/J SKYRAIDER

BUREAU OF NAVAL WEAPONS  
NAVY DEPARTMENT

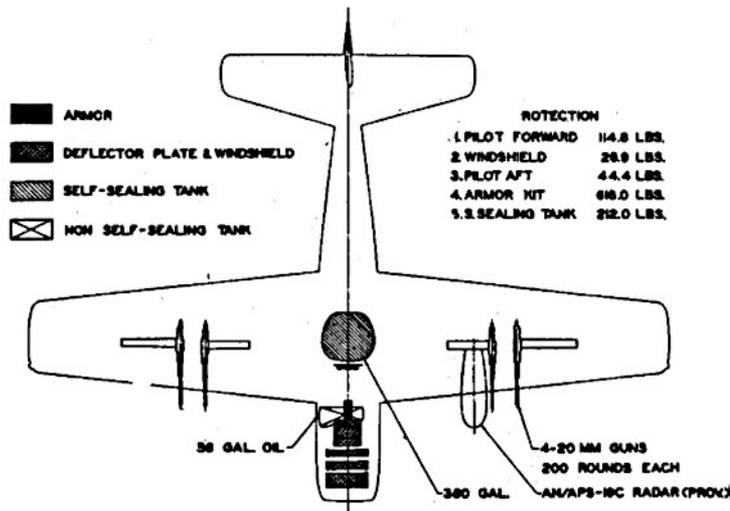


WING AREA-400.3 SQ. FT.  
WING SECTION:  
ROOT-NACA 2417  
TIP-NACA 4413  
M.A.C.-10008"  
A.R. 6.25



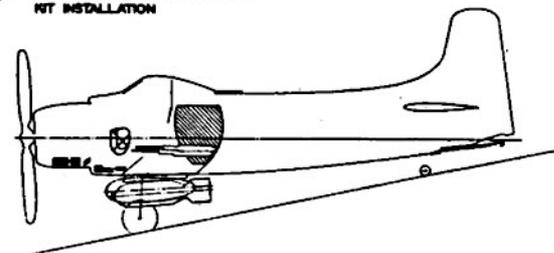
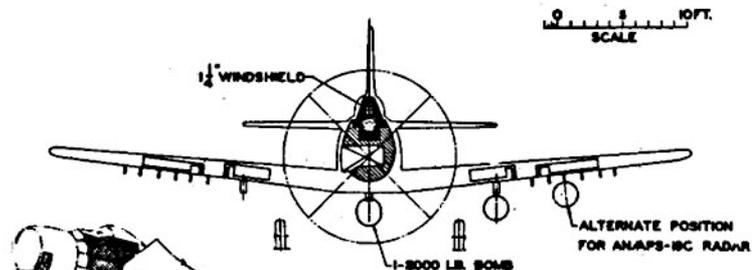
DESCRIPTIVE ARRANGEMENT

BUREAU OF NAVAL WEAPONS  
NAVY DEPARTMENT



- ARMOR
- DEFLECTOR PLATE & WINDSHIELD
- SELF-SEALING TANK
- NON SELF-SEALING TANK

- PROTECTION
- 1. PILOT FORWARD 114.8 LBS.
  - 2. WINDSHIELD 28.8 LBS.
  - 3. PILOT AFT 44.4 LBS.
  - 4. ARMOR KIT 68.0 LBS.
  - 5. SEALING TANK 212.0 LBS.



ARMAMENT AND TANKAGE

| POWER PLANT  | MISSION AND DESCRIPTION   | WEIGHTS  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
|--|---|--|------------|--------------|----------|------|-----------|-----------|---------------|-----------------|-----------|-------------------|-----------------|------------|----------------|------|----------|--------------------|---|--|---------------|---------|---------------------------------------|-------|-----------|---------|------------------------|--------|--------------------------------------|------------|--------|-----|-----------------------------|------------|-----|-------------------|--------|-----|-------|--------|-----|--------------------|--------|-----|----------|--------|-----|
| <p>No. &amp; Model ..... (1)R-3350-26MB/WD<br/>                     Mfr. .... Wright<br/>                     Supercharger ..... 1 Stage, 2 Speed<br/>                     Red. Gr. Ratio ..... 0.4375<br/>                     Prop. Mfr. .... Aero Products<br/>                     Blade Design ..... A642-G804/M20A2-162<br/>                     No. Bl./Dia. .... 4/13" - 6"</p> <p style="text-align: center;"><b>RATINGS</b></p> <table border="1"> <thead> <tr> <th>BHP</th> <th>RPM</th> <th>Alt</th> </tr> </thead> <tbody> <tr> <td>T.O. 2700</td> <td>2800</td> <td>S.L.</td> </tr> <tr> <td>Mil. 2700</td> <td>2800</td> <td>S.L. to 3700'</td> </tr> <tr> <td>2100</td> <td>2600</td> <td>10,000 to 14,000'</td> </tr> <tr> <td>Norm. 2300</td> <td>2600</td> <td>S.L. to 6,200'</td> </tr> <tr> <td>1900</td> <td>2600</td> <td>12,000' to 17,000'</td> </tr> </tbody> </table> | BHP   | RPM  | Alt        | T.O. 2700    | 2800     | S.L. | Mil. 2700 | 2800      | S.L. to 3700' | 2100            | 2600      | 10,000 to 14,000' | Norm. 2300      | 2600       | S.L. to 6,200' | 1900 | 2600     | 12,000' to 17,000' | <p>The primary mission of the A-1H/T airplane is the destruction of sea and ground targets by dive bombing attacks. The airplane is also capable of torpedo, glide bombing, rocket attacks and tactical support missions. The A-1H/T is designed to operate from all classes of naval aircraft carriers or from land bases.</p> <p>The single-place airplane is conventional in design and structure. Landing gear, flaps, canopy, wing folding, and three fuselage dive brakes are operated hydraulically. Flaps are NACA single-slotted trailing-edge type. The pressure-balance type ailerons are operated by power boost. The rudder is equipped with a spring tab system. Longitudinal trim is achieved by an electrically adjustable stabilizer. Power plant, engine mount, and elevators are conventional. Oxygen for five hours is supplied.</p> <p style="text-align: center;"><b>DEVELOPMENT</b></p> <p>Prototype ..... A-1G(AD-5N)<br/>                     First Flight ..... June 1956<br/>                     Service Use ..... September 1956</p> | <p><b>LOADINGS</b></p> <table border="1"> <thead> <tr> <th></th> <th>LBS</th> <th>Lt.Lt.</th> </tr> </thead> <tbody> <tr> <td>Empty</td> <td>12,072</td> <td></td> </tr> <tr> <td>Basic</td> <td>13,328</td> <td></td> </tr> <tr> <td>Design</td> <td>15,595</td> <td>7.0</td> </tr> <tr> <td>Combat</td> <td>15,486</td> <td>7.0</td> </tr> <tr> <td>Max. T.O. (Field)</td> <td>25,000</td> <td>4.4</td> </tr> <tr> <td>(Cat)</td> <td>25,800</td> <td>4.2</td> </tr> <tr> <td>Max. Land. (Field)</td> <td>21,000</td> <td>5.2</td> </tr> <tr> <td>(Arrest)</td> <td>18,000</td> <td>6.1</td> </tr> </tbody> </table> |               | LBS     | Lt.Lt.                                | Empty | 12,072    |         | Basic                  | 13,328 |                                      | Design     | 15,595 | 7.0 | Combat                      | 15,486     | 7.0 | Max. T.O. (Field) | 25,000 | 4.4 | (Cat) | 25,800 | 4.2 | Max. Land. (Field) | 21,000 | 5.2 | (Arrest) | 18,000 | 6.1 |
| BHP  | RPM   | Alt  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| T.O. 2700  | 2800  | S.L.   |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Mil. 2700  | 2800  | S.L. to 3700'  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| 2100   | 2600  | 10,000 to 14,000'  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Norm. 2300   | 2600  | S.L. to 6,200'   |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| 1900   | 2600  | 12,000' to 17,000'   |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
|  | LBS   | Lt.Lt.   |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Empty  | 12,072  |  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Basic  | 13,328  |  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Design   | 15,595  | 7.0  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Combat   | 15,486  | 7.0  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Max. T.O. (Field)  | 25,000  | 4.4  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| (Cat)  | 25,800  | 4.2  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Max. Land. (Field)   | 21,000  | 5.2  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| (Arrest)   | 18,000  | 6.1  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| <p style="text-align: center;"><b>ELECTRONICS</b></p>  |   | <p style="text-align: center;"><b>FUEL AND OIL</b></p> <table border="1"> <thead> <tr> <th>NO. TANKS</th> <th>TOTAL GALLON</th> <th>LOCATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>380</td> <td>Fuselage</td> </tr> <tr> <td>1</td> <td>150,300, or 400</td> <td>Ctr. Drop</td> </tr> <tr> <td>2</td> <td>150,300, or 400</td> <td>Wing. Drop</td> </tr> </tbody> </table> <p>Fuel Grade ..... 115/145<br/>                     Fuel Spec ..... Applicable MIL-F-557E</p> <p style="text-align: center;"><b>OIL</b></p> <p>Capacity (Gal.) ..... 36<br/>                     Grade ..... 1065<br/>                     Spec ..... Applicable MIL-L-22851</p>   | NO. TANKS  | TOTAL GALLON | LOCATION | 1    | 380       | Fuselage  | 1             | 150,300, or 400 | Ctr. Drop | 2                 | 150,300, or 400 | Wing. Drop |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| NO. TANKS  | TOTAL GALLON  | LOCATION   |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| 1  | 380   | Fuselage   |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| 1  | 150,300, or 400   | Ctr. Drop  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| 2  | 150,300, or 400   | Wing. Drop   |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| <p>UHF ..... AN/ARC-27A<br/>                     RADIO ALTIMETER ..... AN/AEM-22<br/>                     UHF DIR. FINDER ..... AN/ARA-25<br/>                     MARK, BEACON REC. .... AN/ARN-12<br/>                     LF ADF ..... AN/ARN-6<br/>                     TACAN (ALT. TO AN/ARN-6) ..... AN/ARN-21<br/>                     RADAR ..... AN/APS-19C<br/>                     IFF ..... AN/APX-6, AN/APA-89</p>  | <p style="text-align: center;"><b>DIMENSIONS</b></p> <p>WING</p> <p>Area ..... 600 Sq. Ft.<br/>                     Span ..... 50'-0"<br/>                     MAC ..... 8'-4"<br/>                     Length ..... 39'-3"<br/>                     Height ..... 15'-8"<br/>                     Tread ..... 13'-11"<br/>                     Prop. Grd. Clearance ..... 0'-6"</p> | <p style="text-align: center;"><b>ORDNANCE</b></p> <p style="text-align: center;"><b>GUNS</b></p> <table border="1"> <thead> <tr> <th>NO.</th> <th>SIZE</th> <th>LOCATION</th> <th>RCS</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>20mm, M-3</td> <td>Wings</td> <td>200 ea.</td> </tr> <tr> <td></td> <td>MK 20 MCD 4</td> <td>Gun Sight</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;"><b>EXTERNAL LOAD</b></p> <table border="1"> <thead> <tr> <th>RACKS</th> <th>NO.</th> <th>LOCATION</th> <th>MAX CAP</th> </tr> </thead> <tbody> <tr> <td>Aero 3A Bomb Ejector</td> <td>1</td> <td>Fuselage C.L.</td> <td>3600 lb</td> </tr> <tr> <td>MK 51 Bomb Rack with Aero 1A Adapters</td> <td>2</td> <td>Inbd Wing</td> <td>3000 lb</td> </tr> <tr> <td>Aero 14D-2 or Aero 14E</td> <td>8</td> <td>Outbd. Wing Stns. 2,3,4, 6,7,9,10,11</td> <td>500 lb/Stn</td> </tr> <tr> <td></td> <td>4</td> <td>Outbd. Wing Stns. 1,5,8, 12</td> <td>250 lb/Stn</td> </tr> </tbody> </table> | NO.        | SIZE         | LOCATION | RCS  | 4         | 20mm, M-3 | Wings         | 200 ea.         |           | MK 20 MCD 4       | Gun Sight       |            | RACKS          | NO.  | LOCATION | MAX CAP            | Aero 3A Bomb Ejector  | 1  | Fuselage C.L. | 3600 lb | MK 51 Bomb Rack with Aero 1A Adapters | 2     | Inbd Wing | 3000 lb | Aero 14D-2 or Aero 14E | 8      | Outbd. Wing Stns. 2,3,4, 6,7,9,10,11 | 500 lb/Stn |        | 4   | Outbd. Wing Stns. 1,5,8, 12 | 250 lb/Stn |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| NO.  | SIZE  | LOCATION   | RCS        |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| 4  | 20mm, M-3   | Wings  | 200 ea.    |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
|  | MK 20 MCD 4   | Gun Sight  |            |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| RACKS  | NO.   | LOCATION   | MAX CAP    |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Aero 3A Bomb Ejector   | 1   | Fuselage C.L.  | 3600 lb    |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| MK 51 Bomb Rack with Aero 1A Adapters  | 2   | Inbd Wing  | 3000 lb    |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
| Aero 14D-2 or Aero 14E   | 8   | Outbd. Wing Stns. 2,3,4, 6,7,9,10,11   | 500 lb/Stn |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |
|  | 4   | Outbd. Wing Stns. 1,5,8, 12  | 250 lb/Stn |              |          |      |           |           |               |                 |           |                   |                 |            |                |      |          |                    |   |  |               |         |                                       |       |           |         |                        |        |                                      |            |        |     |                             |            |     |                   |        |     |       |        |     |                    |        |     |          |        |     |

## PERFORMANCE SUMMARY

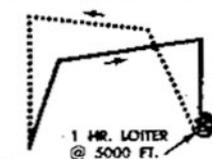
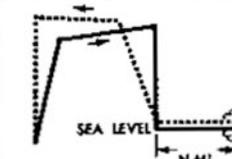
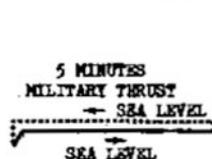
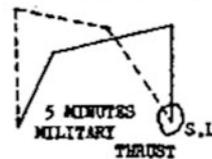
| TAKE-OFF LOADING CONDITION                     |             | (1) Deep Strike<br>Clean Airplane | (3) Deep Strike<br>1-200 lb G.P. Bomb | (5) Deep Strike<br>1-200 lb. G.P. Bomb<br>2-300 Gallon Tanks | (7) Close Support<br>12 MK-82 Bombs | (9) Lo-Lo-Lo<br>2-MK-36 & 6 MK-50 Miss<br>1-300 Gallon Tank | (11) Ferry Mission<br>3-300 Gallon Tanks |
|--|-------------|-----------------------------------|---------------------------------------|--|-------------------------------------|---|--|
| TAKE-OFF WEIGHT                                | lb.         | 16,398                            | 18,398                                | 22,384   | 22,557                              | 24,091  | 22,377                                   |
| Fuel internal/external                         | lb./lb.     | 2280/None                         | 2280/None                             | 2280/3600  | 2280/None                           | 2280/1800   | 2280/5400                                |
| Payload  | lb.         | NONE                              | 2000                                  | 2000   | 6000                                | 5700  | NONE                                     |
| Wing loading                                   | lb./sq. ft. | 41.0                              | 46.0                                  | 55.9   | 56.4                                | 60.2  | 55.9                                     |
| Stall speed—power-off                          | kn.         | 79.4                              | 38.9                                  | 93.0   | 93.5                                | 97.0  | 93.0                                     |
| Take-off run at S.L.— calm                     | (A) (B) ft. | 710                               | 930                                   | 1580   | 1600                                | 1930  | 1580                                     |
| Take-off run at S.L.— 25 kn. wind              | (A) (B) ft. | 400                               | 420                                   | 840  | 880                                 | 1090  | 840                                      |
| Take-off to clear 50 ft.— calm                 | (A) (C) ft. | 1448                              | 1890                                  | 3130   | 3200                                | 3820  | 3130                                     |
| Max. speed/altitude                            | (D) kn./ft. | 293/17,820                        | 284/17,650                            | 268/17,425   | 265/17,350                          | 227/17,050  | 270/17,450                               |
| Rate of climb at S.L.                          | (D) fpm.    | 2625                              | 2200                                  | 1525   | 1475                                | 1125  | 1525                                     |
| Time: S.L. to 10,000 ft.                       | (D) min.    | 4.5                               | 5.0                                   | 7.5  | 8.0                                 | 9.5   | 7.5                                      |
| Time: S.L. to 20,000 ft.                       | (D) min.    | 9.5                               | 12.5                                  | 21.0   | 22.0                                | 39.0  | 21.0                                     |
| Service ceiling (100 fpm)                      | ft.         | 31,900                            | 28,800                                | 23,600   | 23,200                              | 19,800  | 23,200                                   |
| Combat range                                   | n.mi.       | 914                               | 758                                   | 2,053  | 570                                 | 922   | 2,814 (E)                                |
| Average cruising speed                         | kn.         | 149                               | 157                                   | 163  | 170                                 | 150   | 159                                      |
| Cruising altitude(s)                           | ft.         | 5,000                             | 5,000                                 | 5,000  | 5,000                               | S.L.  | 5,000                                    |
| Combat radius/mission time                     | n.mi./hr.   | 260/3.3                           | 240/3.0                               | 750/9.3  | 257/4.3                             | 605/8.3   | —  |
| Average cruising speed                         | kn.         | 164                               | 169                                   | 163  | 157                                 | 147   | —  |
| COMBAT LOADING CONDITION                       |             | (2) Clean Airplane                | (4) Store Retained                    | (6) Tanks Dropped<br>Store Retained                          | (8) Stores Retained                 | (10) Tank Dropped<br>Stores Retained                        | (12) Tanks Retained                      |
| COMBAT WEIGHT                                  | lb.         | 15,486                            | 17,486                                | 18,398   | 21,675                              | 22,098  | 16,977                                   |
| Engine power                                   |             | MILITARY                          | MILITARY                              | MILITARY   | MILITARY                            | MILITARY  | MILITARY                                 |
| Fuel   | lb.         | 1368                              | 1368                                  | 2280   | 1368                                | 2280  | 2280                                     |
| Combat speed/combat altitude                   | kn./ft.     | 277/S.L.                          | 271/S.L.                              | 271/S.L.   | 261/5000                            | 238/S.L.  | 269/5000                                 |
| Rate of climb/combat altitude                  | fpm/ft.     | 3540/S.L.                         | 2950/S.L.                             | 2750/S.L.  | 1900/5000                           | 1825/S.L.   | 2750/5000                                |
| Combat ceiling (500 fpm)                       | ft.         | 29,600                            | 26,250                                | 25,000   | 20,100                              | 17,950  | 26,500                                   |
| Rate of climb at S.L.                          | fpm.        | 3540                              | 2950                                  | 2750   | 2050                                | 1825  | 3025                                     |
| Max. speed at S.L.                             | kn.         | 277                               | 271                                   | 271  | 259                                 | 238   | 266                                      |
| Max. speed/altitude                            | kn./ft.     | 297/15,400                        | 289/15,250                            | 288/15,240   | 271/14,970                          | 245/14,600  | 282/15,150                               |
| LANDING WEIGHT                                 | lb.         | 14,308                            | 16,322                                | 16,503   | 20,518                              | 20,161  | 15,165                                   |
| Fuel   | lb.         | 190                               | 204                                   | 385  | 241                                 | 343   | 468                                      |
| Stall speed—power-off/approach power           | kn./kn.     | 75.1/70.5                         | 80.1/71.5                             | 80.3/75.5  | 89.7/85.8                           | 88.7/84.9   | 77.5/72.5                                |
| Landing distance—ground roll/over 50 ft. obst. | ft./ft.     | 1610/2415                         | 1840/2725                             | 1860/2735  | 2250/3170                           | 2220/3155   | 1700/2550                                |

## NOTES

- (A) Take-Off Power  
 (B) Full Flaps (50°)  
 (C) Half Flaps (25°)  
 (D) Normal Rated Power  
 (E) 2,964 N.Mi. Range if Tanks Dropped When Empty

- (F) Data Basis: NATC and DAC Flight Tests of Models A-1H and A-1J  
 (G) All Loadings include Pylons on all Wing Stations, 800 Rounds of 20mm Ammunition and Full Internal Fuel (2280 lb.)  
 (H) Mission Time Excludes Time for Warm-up and Take-off and 20 minutes Loiter at Sea Level

**MISSION SUMMARY — ALTERNATE LOADINGS**

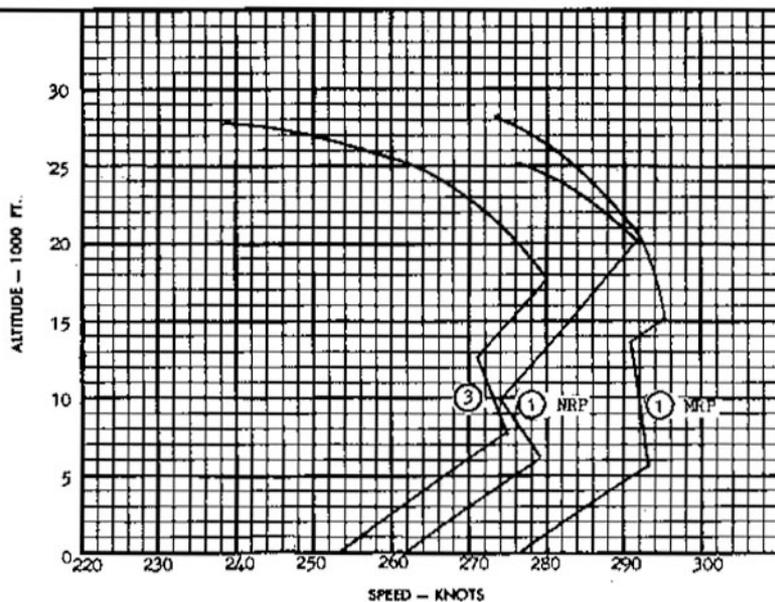
|  |        | CLOSE SUPPORT   |                     | HI-LO-LO-HI  |                     | HI-HI-HI  |                     | LO-LO-LO  |                     | HI-LO-HI  |                        |
|--|--------|---|---------------------|--|---------------------|---|---------------------|---|---------------------|---|------------------------|
|  |        |  |                     |  |                     |  |                     |  |                     |  |                        |
| EXTERNAL STORE LOADING                                   | T.G.W. | COMBAT RADIUS<br>n. mi.   | MISSION TIME<br>hr. | COMBAT RADIUS<br>n. mi.  | MISSION TIME<br>hr. | COMBAT RADIUS<br>n. mi.   | MISSION TIME<br>hr. | COMBAT RADIUS<br>n. mi.   | MISSION TIME<br>hr. | COMBAT RADIUS<br>n. mi.   | MISSION<br>TIME<br>hr. |
| 3 1-2000 lb Bomb   | 18,398 | 348   | 5.7                 | 375  | 5.2                 | 386   | 5.3                 | 408   | 5.7                 | 375   | 5.2                    |
| 5 1-2000 lb Bomb<br>2-300 Gal. Drop Tanks                | 22,384 | 815   | 11.6                | 890  | 13.3                | 930   | 12.1                | 950   | 12.7                | 895   | 11.7                   |
| 13 6-MK 82 Snakeyes                                      | 19,788 | 320   | 5.1                 | 360  | 4.9                 | 365   | 4.8                 | 390   | 5.4                 | 357   | 4.7                    |
| 14 6-MK 82 Snakeyes<br>2-300 Gal. Drop Tanks             | 23,774 | 800   | 11.0                | 890  | 11.6                | 925   | 11.6                | 945   | 12.4                | 905   | 11.4                   |
| 15 Maximum MK 82 Snakeyes<br>(16-MK 82 Snakeyes)         | 25,597 | 203   | 3.6                 | 270  | 3.6                 | 270   | 3.5                 | 195   | 4.0                 | 265   | 3.4                    |
| 16 6-MK 81 Snakeyes<br>2-300 Gal. Drop Tanks             | 22,184 | 820   | 11.4                | 885  | 11.6                | 925   | 11.5                | 945   | 12.6                | 900   | 11.3                   |
| 17 Maximum MK 81 Snakeyes<br>(30-MK 81 Snakeyes)         | 25,875 | 180   | 3.3                 | 243  | 3.3                 | 250   | 3.3                 | 245   | 3.8                 | 278   | 3.2                    |
| 9 2-MK 36 Mines<br>6-MK 50 Mines<br>1-300 Gal. Drop Tank | 24,091 | 505   | 7.5                 | 570(A)   | 7.7                 | 580   | 7.6                 | 605(A)  | 8.3                 | 567   | 7.5                    |
| 18 6-MK 50 Mines<br>2-300 Gal. Drop Tank                 | 23,624 | 785   | 11.0                | 885(A)   | 11.6                | 920   | 11.7                | 950(A)  | 12.8                | 895   | 11.4                   |

- (A) Flying Qualities in this Configuration at Gross Weights Above 22,000 lb are Un satisfactory for Extended Low Altitude Flight at Maximum Range Cruise Air Speeds - NATC Rpt No. FT2121-010R-65 dtd 18 May 1965
- (B) All Loadings Include Pylons on all Wing Stations 800 Rounds of 20MM Ammunition and Full Internal Fuel (2280 lb)
- (C) Mission Time Excludes Time for Warm up and Take-off and 20 Minutes Loiter at Sea Level

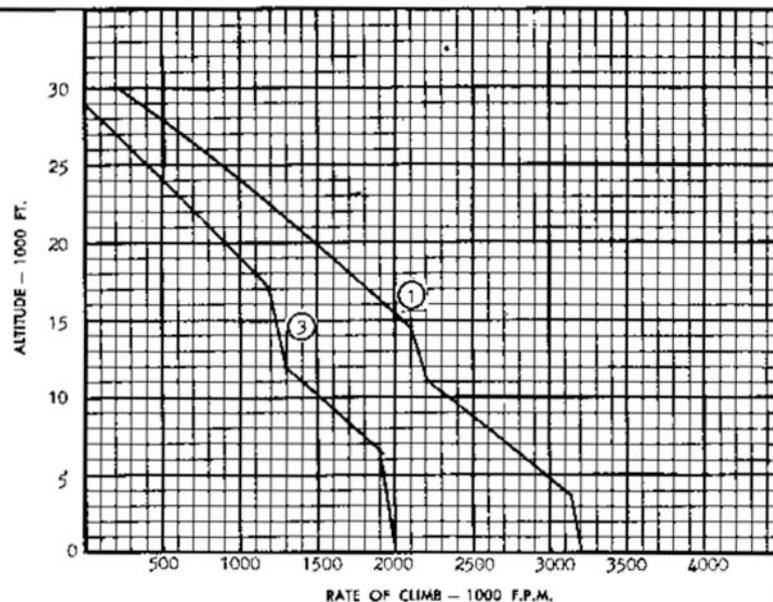
**NOTES**

- (D) For all Missions Except Lo-Lo-Lo, the Cruise Altitude is 5,000 Ft.
- (E) Data Basis: NATC and DAC Flight Tests of Models A-1H and A-1J

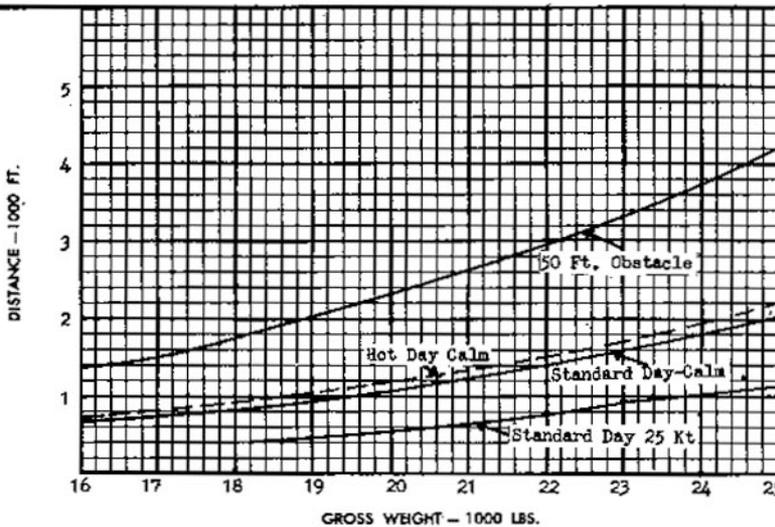
**SPEED**



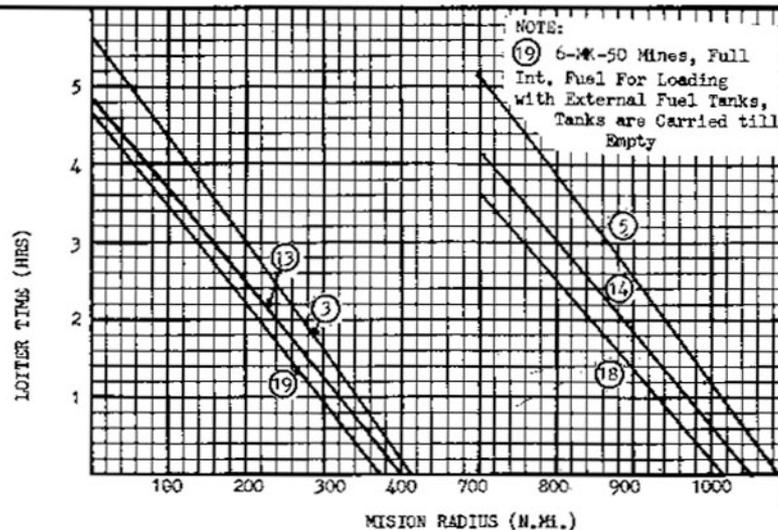
**CLIMB**



**TAKE-OFF**

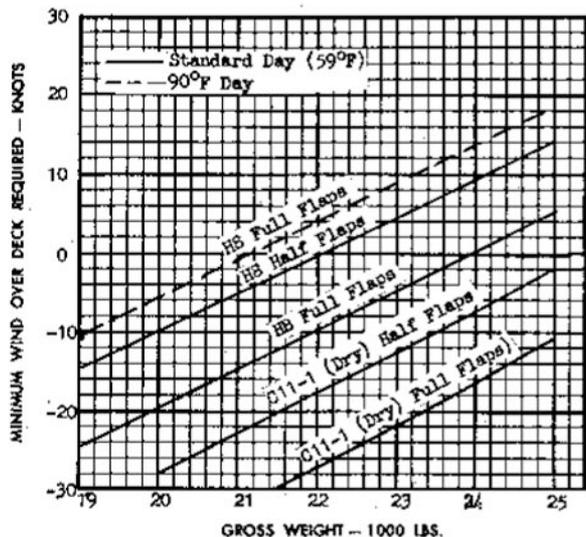


**COMBAT RADIUS**

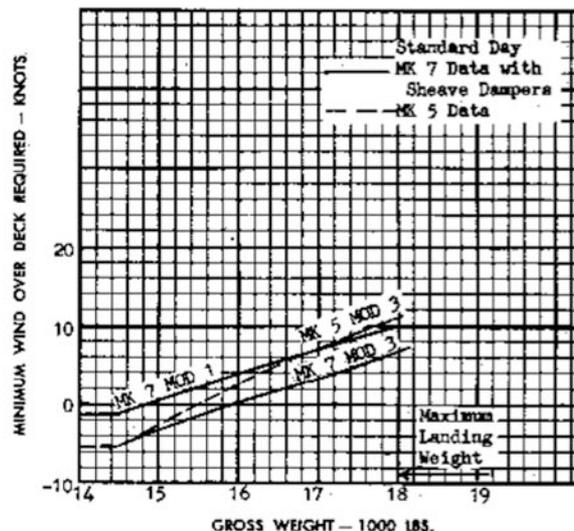


○ LOADING CONDITION COLUMN NUMBER

**MINIMUM WIND OVER DECK REQUIRED FOR CATAPULTING VS. GROSS WEIGHT (A)**

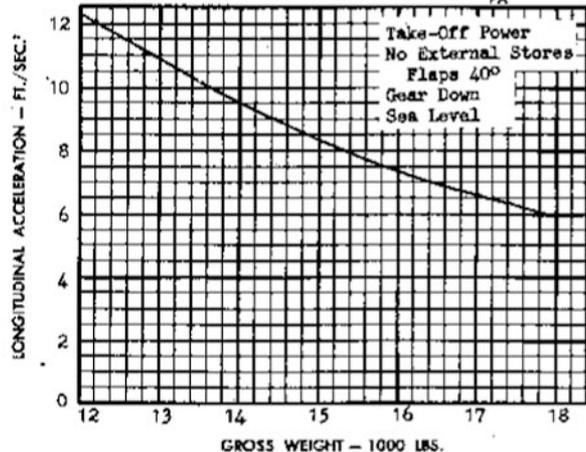


**MINIMUM WIND OVER DECK REQUIRED FOR ARRESTING VS. GROSS WEIGHT (B)**

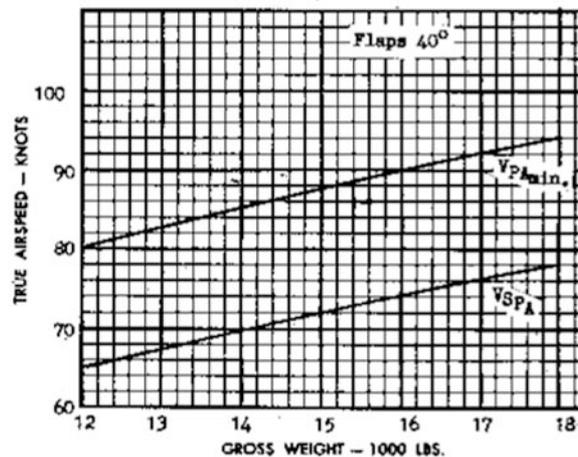


**WAVE-OFF ACCELERATION**

LONGITUDINAL ACCELERATION AT 1.15 V<sub>SPA</sub>



**MINIMUM CARRIER APPROACH SPEEDS (C)**



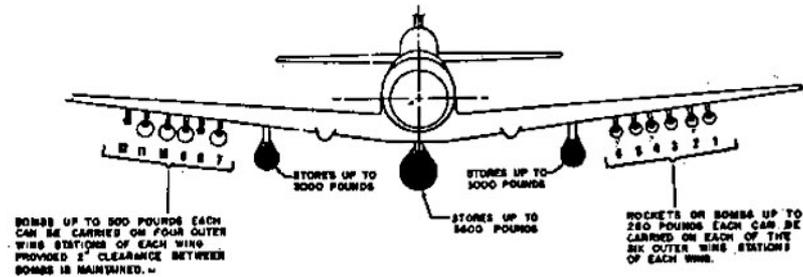
**NOTES**

- (A) Catapult Wind Over Deck Requirements are Based on Results of Aircraft/Catapult Flight Testing.
- (B) Arrested Landing Wind Over Deck Requirements are Based on Results of Aircraft/Arresting Gear Flight Tests.

(C) Approach Speed Based on Speeds Recommended in Flight Handbook

(D) SPOTTING: A Total of 138 Airplanes can be Accommodated in a Landing Spot on the Flight and Hangar Decks of a CVA-59 Class Carrier.

## STORE LOADING



| ORDNANCE                 | OUTBOARD WING STATIONS                      |  |  |  |  |  | RIGHT & LEFT<br>INBOARD STATION   | CENTER LINE<br>STATION  |
|--------------------------|---|--|--|--|--|--|---|---|
|                          | 11 & 12                                     | 2 & 11   | 3 & 10   | 4 & 9  | 5 & 8  | 6 & 7  |   |   |
| MINES                    | --<br>--<br>--<br>--<br>--                  | --<br>--<br>1) MK-50 MOD 0<br>--<br>--                             | --<br>--<br>1) MK-50 MOD 0<br>--<br>--                             | --<br>--<br>1) MK-50 MOD 0<br>--<br>--                             | --<br>--<br>--<br>--<br>--                   | --<br>--<br>--<br>1) MK-50 MOD 0<br>--<br>--                       | 1) MLU-10/B<br>1) MK-25 MOD 1&2<br>1) MK-36 MOD 3<br>1) MK-50 MOD 0<br>1) MK-52<br>1) MK-56 | --<br>1) MK-25 MOD 1&2<br>1) MK-36 MOD 3<br>1) MK-50 MOD 0<br>1) MK-52<br>1) MK-56          |
| GENERAL PURPOSE<br>BOMBS | 1) AN-M30A1<br>1) AN-M57A1<br>--<br>--      | 1) AN-M30A1<br>1) AN-M57A1<br>1) AN-M64A1<br>--<br>--              | 1) AN-M30A1<br>1) AN-M57A1<br>1) AN-M64A1<br>--<br>--              | 1) AN-M30A1<br>1) AN-M57A1<br>1) AN-M64A1<br>--<br>--              | 1) AN-M30A1<br>1) AN-M57A1<br>--<br>--<br>-- | 1) AN-M30A1<br>1) AN-M57A1<br>1) AN-M64A1<br>--<br>--              | --<br>1) AN-M57A1<br>1) AN-M64A1<br>1) AN-M65A1<br>1) AN-M66A2                              | 1) AN-M30A1<br>1) AN-M57A1<br>1) AN-M64A1<br>1) AN-M65A1<br>1) AN-M66A2                     |
| LOW DRAG<br>BOMBS        | 1) MK-81<br>1) MK-81 S.E.<br>--<br>--<br>-- | 1) MK-81<br>1) MK-81 S.E.<br>1) MK-82<br>1) MK-82 S.E.<br>--<br>-- | 1) MK-81<br>1) MK-81 S.E.<br>1) MK-82<br>1) MK-82 S.E.<br>--<br>-- | 1) MK-81<br>1) MK-81 S.E.<br>1) MK-82<br>1) MK-82 S.E.<br>--<br>-- | 1) MK-81<br>1) MK-81 S.E.<br>--<br>--<br>--  | 1) MK-81<br>1) MK-81 S.E.<br>1) MK-82<br>1) MK-82 S.E.<br>--<br>-- | 1) MK-81<br>1) MK-81 S.E.<br>1) MK-82<br>1) MK-82 S.E.<br>1) MK-83<br>1) MK-84<br>1) MK-117 | 1) MK-81<br>1) MK-81 S.E.<br>1) MK-82<br>1) MK-82 S.E.<br>1) MK-83<br>1) MK-84<br>1) MK-117 |
| SPECIAL<br>WEAPONS       | --<br>--                                    | --<br>--   | --<br>--   | --<br>--   | --<br>--                                     | --<br>--   | --<br>--<br>--  | 1) MK-43<br>1) MK-57<br>1) MK-101   |

STORE LOADING

| ORDNANCE             | OUTBOARD WIND STATIONS  |   |   |   |   |   | RIGHT & LEFT INBOARD  | CENTERLINE STATION  |
|----------------------|---|---|---|---|---|---|---|---|
|                      | 1 & 12  | 2 & 11  | 3 & 10  | 4 & 9   | 5 & 8   | 6 & 7   |   |   |
| FIRE BOMBS           | --<br>--<br>--<br>--  | 1) MK-77 Fire Bomb<br>--<br>1) BLU-10/B<br>1) BLU-11/B  | 1) MK-77 Fire Bomb<br>--<br>--<br>--  | 1) MK-77 Fire Bomb<br>--<br>1) BLU-10/B<br>1) BLU-11/B  | --<br>--<br>--<br>--  | 1) MK-77<br>--<br>1) BLU-10/B<br>1) BLU-11/B  | 1) MK-77 MOD 1 Fire Bomb<br>1) MK-79 MOD 1 Fire Bomb<br>1) BLU-1/B<br>--<br>1) M116 A1/A1                                       | 1) MK-77 MOD 1 Fire Bomb<br>1) MK-79 MOD 1 Fire Bomb<br>--<br>--<br>1) M116 A1/A2   |
| MISSILES             | --  | 1) BULLPUP "A"  | 1) BULLPUP "A"  | 1) BULLPUP "A"  | --  | 1) BULLPUP "A"  | --  | --  |
| ROCKET PACKS         | 1) 5 in. HVAR<br>--<br>1) MA3/AERO 6A<br>--<br>--<br>1) AERO 6A, 6A-1, 6A-2<br>1) LAU-32 A/A                                | 1) 5 in. HVAR<br>1) LAU-3/A<br>1) MA3/AERO 6A<br>--<br>1) 3D-1<br>1) AERO 7D<br>1) AERO 6A, 6A-1, 6A-2<br>1) LAU-32 A/A     | 1) 5 in. HVAR<br>--<br>1) MA3/AERO 6A<br>--<br>1) 3D-1<br>1) AERO 7D<br>1) AERO 6A, 6A-1, 6A-2<br>1) LAU-32 A/A             | 1) 5 in. HVAR<br>1) LAU-3/A<br>1) MA3/AERO 6A<br>--<br>1) 3D-1<br>1) AERO 7D<br>1) AERO 6A, 6A-1, 6A-2<br>1) LAU-32 A/A     | 1) 5 in. HVAR<br>--<br>1) MA3/AERO 6A<br>--<br>1) --<br>--<br>1) AERO 6A, 6A-1, 6A-2<br>1) LAU-32 A/A                       | 1) 5 in. HVAR<br>1) LAU-3A<br>1) MA3/AERO 6A<br>--<br>1) 3D-1<br>1) AERO 7D<br>1) AERO 6A, 6A-1, 6A-2<br>1) LAU-32 A/A      | --<br>1) LAU-3/A<br>1) LAU-10/A<br>--<br>1) AERO 7D<br>1) AERO 6A, 6A-1, 6A-2<br>1) LAU-32 A/A                                  | --<br>--<br>--<br>--<br>--<br>1) AERO 6A, 6A-1, 6A-2<br>1) LAU-32 A/A   |
| GUN PODS             | --<br>--<br>--<br>--  | 1) SUU-11/A<br>--<br>1) M 37<br>1) 30 Cal.  | --<br>--<br>--<br>--  | 1) SUU-11/A<br>1) SUU-12/A<br>1) M 37<br>1) 30 Cal.   | --<br>--<br>--<br>--  | 1) SUU-11/A<br>1) SUU-12/A<br>1) M 37<br>1) 30 Cal.   | --<br>--<br>--<br>--  | --<br>--<br>--<br>--  |
| EXTERNAL FUEL TANKS  | --<br>--<br>--<br>--<br>--  | --<br>--<br>--<br>--<br>--  | --<br>--<br>--<br>--<br>--  | --<br>--<br>--<br>--<br>--  | --<br>--<br>--<br>--<br>--  | --<br>--<br>--<br>--<br>--  | 1) 400 Gal. - ATP-D1<br>1) 300 Gal. - MK 8 MOD 1<br>1) 300 Gal. - AERO 1A,B,C,D<br>--<br>1) 150 Gal - MK12<br>1) 150 Gal AERO1A | 1) 400 Gal. - ATP-I<br>1) 300 Gal. - MK 8 MOD 1<br>1) 300 Gal. - AERO 1A,B,C,D<br>1) 300 Gal -Refuel.<br>1) 150Gal - MK 12<br>1) 150 Gal-AERO1A |
| MISCELLANEOUS STORES | 1) AN-M81 Frag. Bomb<br>1) AN-88 Frag. Bomb<br>1) M-28 A2 Cluster Bomb<br>1) AN-M1A2 Cluster Bomb<br>1) MK-76 Practice Bomb | 1) AN-M81 Frag. Bomb<br>1) AN-88 Frag. Bomb<br>1) M-28 A2 Cluster Bomb<br>1) AN-M1A2 Cluster Bomb<br>1) MK-76 Practice Bomb | 1) AN-M81 Frag. Bomb<br>1) AN-88 Frag. Bomb<br>1) M-28 A2 Cluster Bomb<br>1) AN-M1A2 Cluster Bomb<br>1) MK-76 Practice Bomb | 1) AN-M81 Frag. Bomb<br>1) AN-88 Frag. Bomb<br>1) M-28 A2 Cluster Bomb<br>1) AN-M1A2 Cluster Bomb<br>1) MK-76 Practice Bomb | 1) AN-M81 Frag. Bomb<br>1) AN-88 Frag. Bomb<br>1) M-28 A2 Cluster Bomb<br>1) AN-M1A2 Cluster Bomb<br>1) MK-76 Practice Bomb | 1) AN-M81 Frag. Bomb<br>1) AN-88 Frag. Bomb<br>1) M-28 A2 Cluster Bomb<br>1) AN-M1A2 Cluster Bomb<br>1) MK-76 Practice Bomb | 1) AN-M81 Frag. Bomb<br>1) AN-88 Frag. Bomb<br>--<br>--<br>--   | 1) AN-M81 Frag. Bomb<br>1) AN-88 Frag. Bomb<br>--<br>--<br>--   |

## STORE LOADING

| ORDNANCE                            | OUTBOARD WING STATIONS   |  |  |  |  |  | RIGHT & LEFT INBOARD   | CENTERLINE STATION  |  |
|-------------------------------------|--|--|--|--|--|--|--|---|--|
|                                     | 1 & 12   | 2 & 11   | 3 & 10   | 4 & 9  | 5 & 8  | 6 & 7  |  |   |  |
| MISCELLANEOUS STORES<br>(Continued) | 1) MK-76 with IB-37 FBR<br>1) MK-86<br>Practice Bomb<br>--<br>--   | 1) MK-76 with IB-37 FBR<br>1) MK-86<br>Practice Bomb<br>1) MK-87<br>Practice Bomb<br>--  | 1) MK-76 with IB-37 FBR<br>1) MK-86<br>Practice Bomb<br>1) MK-87<br>Practice Bomb<br>--  | 1) MK-76 with IB-37 FBR<br>1) MK-86<br>Practice Bomb<br>1) MK-87<br>Practice Bomb<br>--  | 1) MK-76 with IB-37 FBR<br>1) MK-86<br>Practice Bomb<br>1) MK-87<br>Practice Bomb<br>--  | 1) MK-76 with IB-37 FBR<br>1) MK-86<br>Practice Bomb<br>1) MK-87<br>Practice Bomb<br>--  | 1) MK-76 with IB-37 FBR<br>1) MK-86<br>Practice Bomb<br>1) MK-87<br>Practice Bomb<br>--  | 1) MK-86<br>Practice Bomb<br>1) MK-87<br>Practice Bomb<br>1) MK-88<br>Practice Bomb<br>--<br>--   | 1) MK-86<br>Practice Bomb<br>1) MK-87<br>Practice Bomb<br>1) MK-88<br>Practice Bomb<br>--<br>--  |
|                                     | 1) MK-89<br>Practice Bomb<br>1) MK-106 MOD2&3<br>Practice Bomb<br>1) MK-5 MOD 10<br>Parachute Flare<br>1) MK-6 MOD 6<br>Parachute Flare<br>1) MK-24 MOD 2A<br>Parachute Flare<br>1) MK-248 Flare<br>1) MK-5 MOD 4<br>Float Light Bomb<br>1) AN-M47A4<br>Smoke Bomb<br>-- | 1) MK-89<br>Practice Bomb<br>1) MK-106 MOD2&3<br>Practice Bomb<br>1) MK-5 MOD 10<br>Parachute Flare<br>1) MK-6 MOD 6<br>Parachute Flare<br>1) MK-24 MOD 2A<br>Parachute Flare<br>1) MK-248 Flare<br>1) MK-5 MOD 4<br>Float Light Bomb<br>1) AN-M47A4<br>Smoke Bomb<br>-- | 1) MK-89<br>Practice Bomb<br>1) MK-106 MOD2&3<br>Practice Bomb<br>1) MK-5 MOD 10<br>Parachute Flare<br>1) MK-6 MOD 6<br>Parachute Flare<br>1) MK-24 MOD 2A<br>Parachute Flare<br>1) MK-248 Flare<br>1) MK-5 MOD 4<br>Float Light Bomb<br>1) AN-M47A4<br>Smoke Bomb<br>-- | 1) MK-89<br>Practice Bomb<br>1) MK-106 MOD2&3<br>Practice Bomb<br>1) MK-5 MOD 10<br>Parachute Flare<br>1) MK-6 MOD 6<br>Parachute Flare<br>1) MK-24 MOD 2A<br>Parachute Flare<br>1) MK-248 Flare<br>1) MK-5 MOD 4<br>Float Light Bomb<br>1) AN-M47A4<br>Smoke Bomb<br>-- | 1) MK-89<br>Practice Bomb<br>1) MK-106 MOD2&3<br>Practice Bomb<br>1) MK-5 MOD 10<br>Parachute Flare<br>1) MK-6 MOD 6<br>Parachute Flare<br>1) MK-24 MOD 2A<br>Parachute Flare<br>1) MK-248 Flare<br>1) MK-5 MOD 4<br>Float Light Bomb<br>1) AN-M47A4<br>Smoke Bomb<br>-- | 1) MK-89<br>Practice Bomb<br>1) MK-106 MOD2&3<br>Practice Bomb<br>1) MK-5 MOD 10<br>Parachute Flare<br>1) MK-6 MOD 6<br>Parachute Flare<br>1) MK-24 MOD 2A<br>Parachute Flare<br>1) MK-248 Flare<br>1) MK-5 MOD 4<br>Float Light Bomb<br>1) AN-M47A4<br>Smoke Bomb<br>-- | 1) MK-89<br>Practice Bomb<br>1) MK-106 MOD2&3<br>Practice Bomb<br>1) MK-5 MOD 10<br>Parachute Flare<br>1) MK-6 MOD 6<br>Parachute Flare<br>1) MK-24 MOD 2A<br>Parachute Flare<br>1) MK-248 Flare<br>1) MK-5 MOD 4<br>Float Light Bomb<br>1) AN-M47A4<br>Smoke Bomb<br>-- | 1) MK-12 MOD 0<br>Smoke Bomb<br>1) MK-109 Bomb<br>1) MK-44 Cluster<br>1) M117 Demo Bomb<br>--<br>--<br>1) AERO 14A Spray Tank<br>1) 2.75 In. Rkt. Training Tube<br>-- | 1) MK-109 Bomb<br>1) MK-44 Cluster<br>1) M117 Demo Bomb<br>--<br>--<br>--<br>1) BDU-11E Training Share                                   |
|                                     | 1) MK-109 Bomb<br>--<br>--   | 1) MK-109 Bomb<br>1) MK-44 Cluster<br>1) M117 Demo Bomb<br>--<br>--   | 1) MK-109 Bomb<br>1) MK-44 Cluster<br>1) M117 Demo Bomb<br>--<br>--  |
|                                     | 1) P-2 Grenade Dispenser<br>--   | --  | --   |
|                                     | 1) 2.75 In. Rkt. Training Tube<br>--   | --  | --   |
|                                     | WEAPONS MOUNTED ON MBR-3 RACK  | --<br>--<br>--<br>--<br>--   | --<br>--<br>--<br>--<br>--   | --<br>--<br>--<br>--<br>--   | --<br>--<br>--<br>--<br>--   | --<br>--<br>--<br>--<br>--   | --<br>--<br>--<br>--<br>--   | 1) MBR-3 Rack<br>6) AN-M1A2 Clusters<br>6) AN-M30A1 G.P.<br>6) AN-M57A1 G.P.<br>6) M28A2 Frag.<br>6) M139 Flares<br>6) MK-6 MOD 6 Flares                              | 1) MBR-3 Rack<br>6) AN-M1A2 Clusters<br>6) AN-M30A1 G.P.<br>6) AN-M57A1 G.P.<br>6) M28A2 Frag.<br>6) M139 Flares<br>6) MK-6 MOD 6 Flares |
|                                     | WEAPONS MOUNTED ON A/A37B-1 MBR  | --<br>--<br>--   | --<br>--<br>--   | --<br>--<br>--   | --<br>--<br>--   | --<br>--<br>--   | --<br>--<br>--   | 6) MK-81<br>6) MK-81 S.E.<br>6) MK-82   | 6) MK-81<br>6) MK-81 S.E.<br>6) MK-82<br>6) MK-82 S.E.   |

NOTES

HI-LO-LO-HI

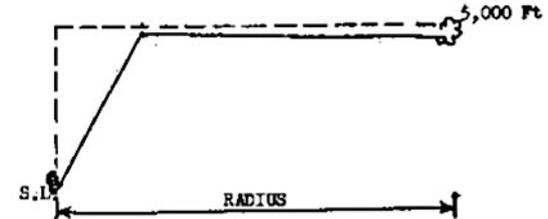
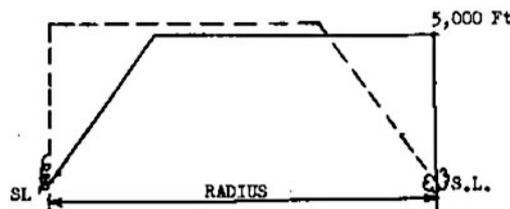
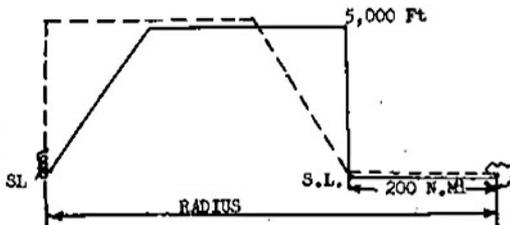
Warm-Up, Taxi, and Take-Off: 10 minutes at Normal Rated Power at Sea Level  
 Climb: On course to 5,000 Ft Cruise Altitude with Normal Rated Power  
 Cruise Out: At 5,000 Ft Altitude at speeds for Maximum Range (Drop Fuel Tanks when Empty)  
 Descend: To S. L. When 200 N.Mi From Target (No Fuel Used, No Distance Gained)  
 Cruise: At Maximum Range Speed at S. L. (Drop Fuel Tanks when Empty)  
 Combat: 5 minutes with Military Rated Power at S. L. (No Distance Gained)  
 Drop Stores  
 Cruise: At Maximum Range Speed to A Point 200 N.Mi From Target  
 Climb: On Course to 5,000 Ft Cruise Altitude with Normal Rated Power  
 Cruise Back: At 5,000 Ft Altitude Speeds for Maximum Range

HI-LO-HI

Warm-Up, Taxi, and Take-Off: 10 minutes at Normal Rated Power at Sea Level  
 Climb: On course to 5,000 Ft Cruise Altitude with Normal Rated Power  
 Cruise Out: At 5,000 Ft Altitude at Speeds for Maximum Range (Drop Fuel Tanks when Empty)  
 Descend: To S. L. (No Fuel Used, No Distance Gained)  
 Combat: 5 Minutes with Military Rated Power at S. L. (No Distance Gained)  
 Drop Stores  
 Climb: On course to 5,000 Ft. Cruise Altitude with Normal Rated Power  
 Cruise Back: At 5,000 Ft Cruise Altitude at Speeds for Maximum Range  
 Reserve: 5% Initial Fuel + 20 Minutes @ Maximum Endurance at S. L.

HI-HI-HI

Warm-Up, Taxi, and Take-Off: 10 minutes at Normal Rated Power at Sea Level  
 Climb: On Course to 5,000 Ft Cruise Altitude with Normal Rated Power  
 Cruise Out: At 5,000 Ft. Altitude at Speeds for Maximum Range (Drop Fuel Tanks when Empty)  
 Combat: 5 minutes With Military Rated Power At 5,000 Ft (No Distance Gained)  
 Drop Stores  
 Cruise Back: At 5,000 Ft Cruise Altitude at Speeds for Maximum Range  
 Reserve: 5% Initial Fuel + 20 minutes @ Maximum Endurance At S. L.



NOTE: Mission Time: Excludes Time For Warm Up and Take-Off and 20-minute Loiter Time

○ LOADING CONDITION COLUMN NUMBER

NOTES

10-10-10

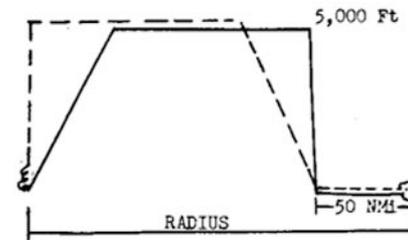
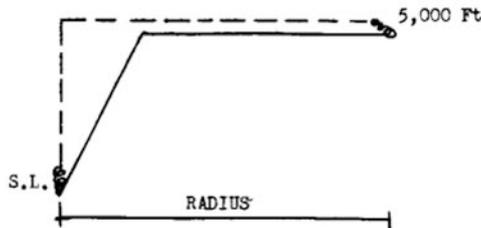
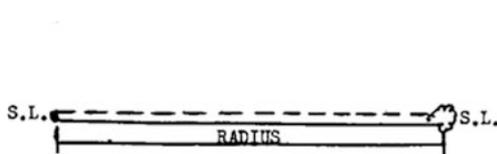
Warm-Up, Taxi, and Take-Off: 10 minutes at Normal Rated Power Sea Level  
 Cruise Out: At Sea Level at Speeds for Maximum Range (Drop Fuel Tanks When Empty)  
 Combat: 5 Minutes with Military Rated Power at S.L. (No Distance Gained)  
 Drop Stores  
 Cruise Back: At Sea Level at Speeds for Maximum Range  
 Reserve: 5% Initial Fuel + 20 minutes @ Maximum Endurance at S. L.

CLOSE SUPPORT

Warm-Up, Taxi, and Take-Off: 10 minutes at Normal Rated Power at Sea Level  
 Climb: On Course to 5,000 Ft Cruise Altitude with Normal Rated Power  
 Cruise Out: At 5,000 Ft Altitude at Speeds for Maximum Range (Drop Fuel Tanks when Empty)  
 Loiter: For 1 Hour at Maximum Endurance Speed at 5,000 Ft (No Distance Gained)  
 Drop Stores  
 Cruise Back: At 5,000 Ft. Cruise Altitude at Speeds for Maximum Range  
 Reserve: 5% Initial Fuel + 20 minutes @ Maximum Endurance at S. L.

DEEP STRIKE

Warm-Up, Taxi, and Take-Off: 10 minutes at Normal Rated Power at Sea Level  
 Climb: On course to 5,000 Ft Cruise Altitude with Normal Rated Power  
 Cruise Out: At 5,000 Ft Altitude at Speeds for Maximum Range (Drop Fuel Tanks When Empty)  
 Descend: To S. L. When 50 N.Mi. From Target (No Fuel Used, No Distance Gained)  
 Run-In: 50 N.Mi @ S. L. at Maximum Speed at Military Rated Power  
 Combat: 5 minutes with Military Rated Power at S. L. (No Distance Gained)  
 Run OUT: 50 N. Mi. @ S. L. at Maximum Speed at Military Rated Thrust  
 Climb: On course to 5,000 Ft. Cruise Altitude with Normal Rated Power  
 Cruise Back: At 5,000 Ft Cruise Altitude at Speeds for Maximum Range  
 Reserve: 5% Initial Fuel + 20 Minutes @ Maximum Endurance at S. L.



NOTE: Mission Time: Excludes Time for Warmup and Take-Off and 20 Minute Loiter Time



LOADING CONDITION COLUMN NUMBER