



**SCHOFIELDS FLYING CLUB**

**Beechcraft Duchess BE76**

## **PERFORMANCE AND LOADING CHARTS**



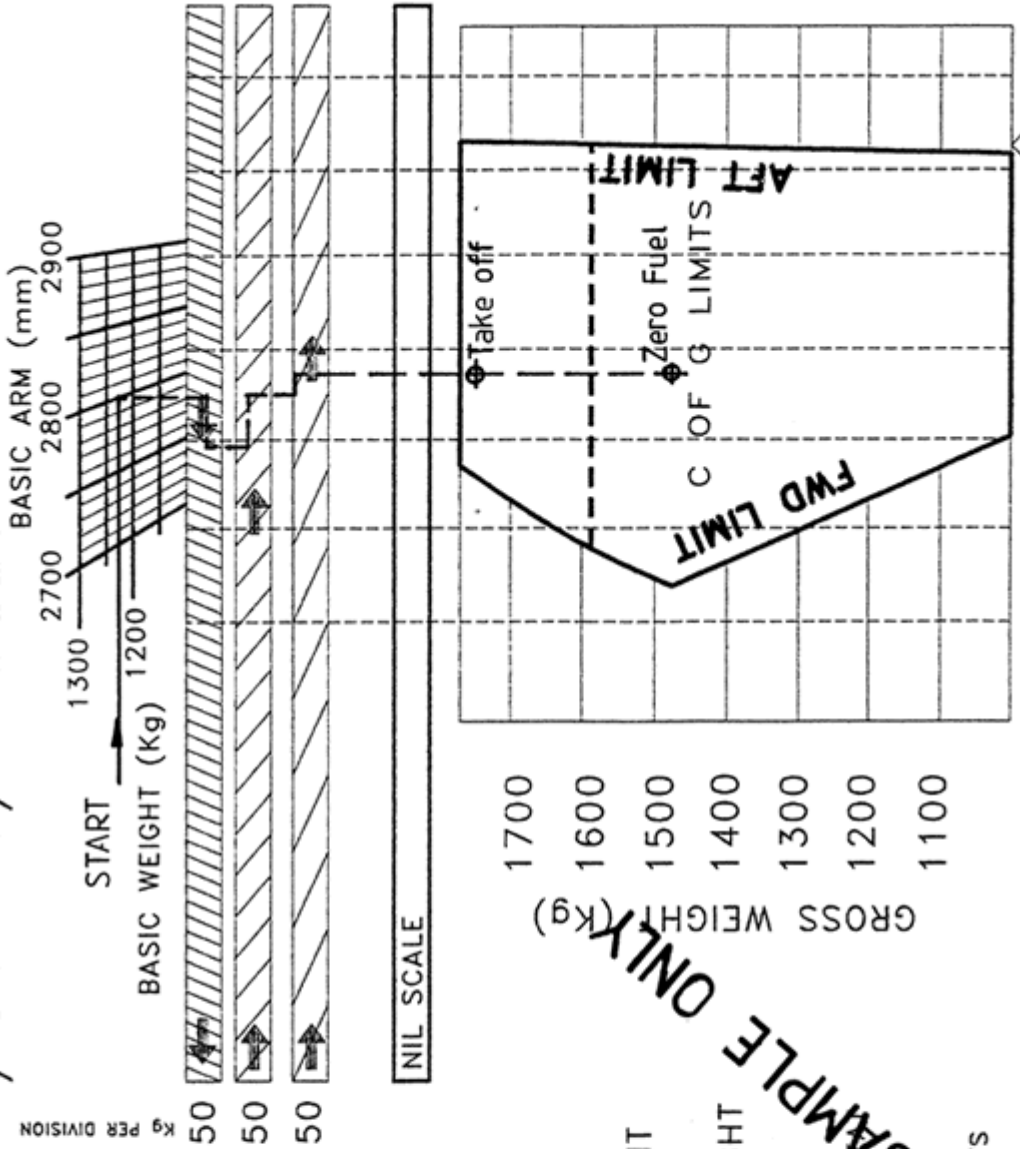
### **SAMPLE AIRCRAFT**

<b>AIRCRAFT</b>	<b>BASIC WEIGHT</b> kg	<b>ARM</b> mm aft of Datum	<b>INDEX UNIT</b> kg mm
VH-RJS	1270.3	2806	3564387
VH-JRT	1216.7	2823	3434556
VH-IPH	1227.0	2798	3433146
VH-IIF	1227.0	2826	3467502
VH-XHT	1238.2	2826	3499408
VH-JWX	1219.6	2777	3306436
VH-ASA	1186	2801	3321986

Schofields Flying Club Ltd does not accept responsibility for the accuracy or veracity of the data contained in these charts or document.

It is the hirer's responsibility to confirm data by referring to the Pilot Operating Handbook and the Flight Manual for the specific aircraft.

# LOAD CHART BC/BCH76/1 BEECH 76



BASIC WEIGHT	1	2	3	0
FRONT SEATS/CARGO	1	6	0	
REAR SEATS/CARGO		7	0	
BAGGAGE/CARGO		1	0	
ZERO FUEL WEIGHT*	1	4	7	0
FUEL		2	7	0
TAKE-OFF WEIGHT*	1	7	4	0
FLIGHT FUEL		1	7	0
LANDING WEIGHT	1	5	7	0

\*MAXIMUM TAKE-OFF WEIGHT

1769 Kg

\*MAXIMUM ZERO FUEL WEIGHT

1588 Kg

MAX CARGO IN LIEU OF CO-PILOT SEAT

84 Kg

MAX CARGO IN PLACE OF REAR SEATS

172 Kg

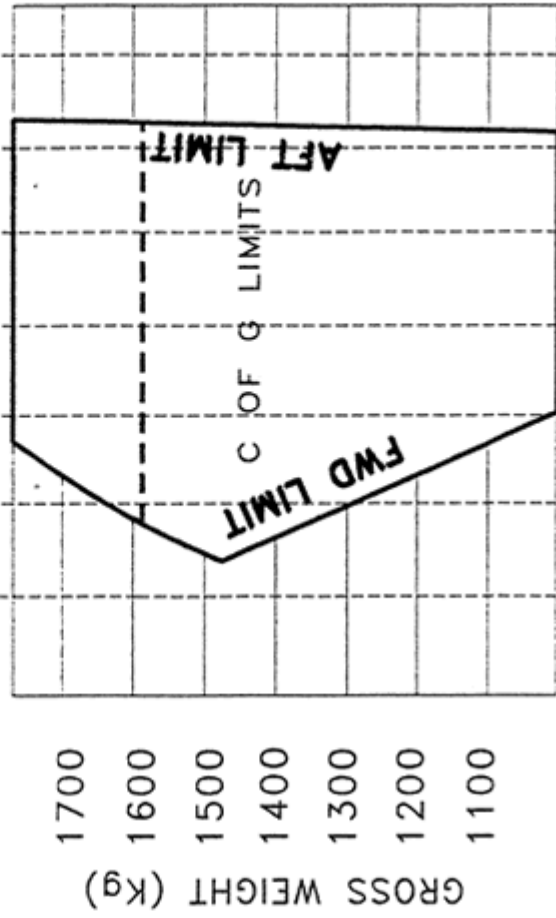
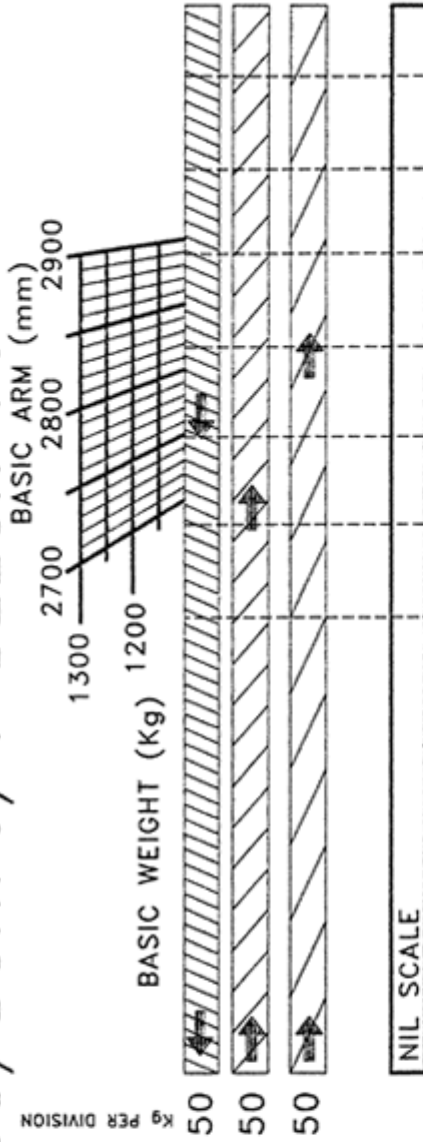
MAX REAR BAGGAGE AREA AND/OR CARGO

90 Kg

# LOAD CHART BC/BCH76/1 BEECH 76

Kg PER DIVISION

BASIC WEIGHT					
FRONT SEATS/CARGO					
REAR SEATS/CARGO					
BAGGAGE/CARGO					
ZERO FUEL WEIGHT*					
FUEL					
TAKE-OFF WEIGHT*					
FLIGHT FUEL					
LANDING WEIGHT					



- \*MAXIMUM TAKE-OFF WEIGHT  
1769 Kg
- \*MAXIMUM ZERO FUEL WEIGHT  
1588 Kg
- MAX CARGO IN LIEU OF CO-PILOT SEAT  
84 Kg
- MAX CARGO IN PLACE OF REAR SEATS  
172 Kg
- MAX REAR BAGGAGE AREA AND/OR CARGO  
90 Kg

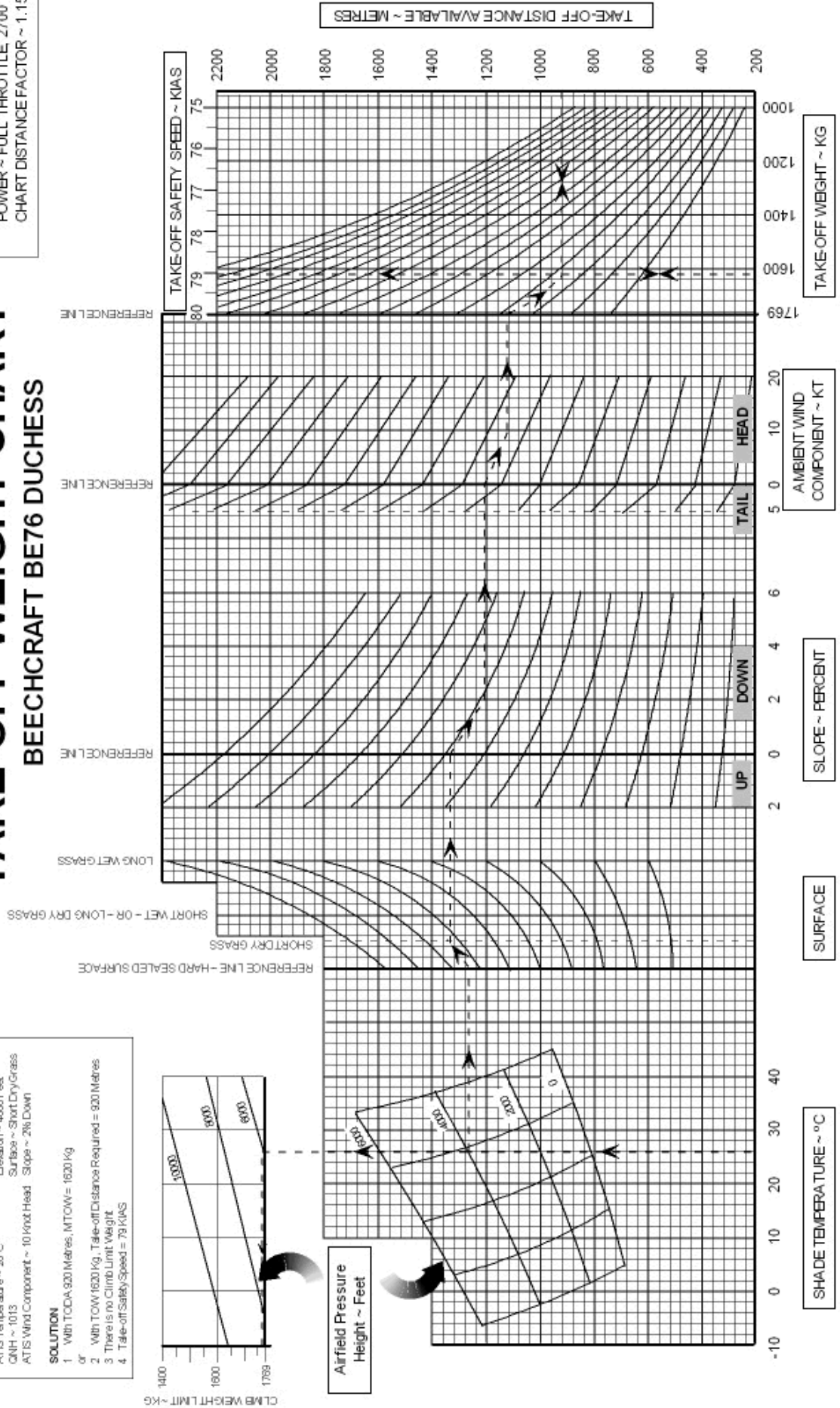
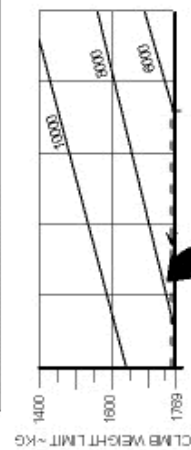
# TAKE-OFF WEIGHT CHART

## BEECHCRAFT BE76 DUCHESS

**CONDITIONS**  
 FLAP ~ ZERO  
 POWER ~ FULL THROTTLE 2700 RPM  
 CHART DISTANCE FACTOR ~ 1.15

**EXAMPLE**  
 ATIS Temperature ~ 25°C  
 QNH ~ 1013  
 ATIS Wind Component ~ 10 Knot Head  
 Slope ~ 2% Down  
 Elevation ~ 4000 Feet  
 Surface ~ Short Dry Grass

**SOLUTION**  
 1 With TODA 920 Metres, MTOW = 1620 Kg  
 or  
 2 With TOW 1620 Kg, Take-off Distance Required = 920 Metres  
 3 There is no Climb Limit Weight  
 4 Take-off Safety Speed = 79 KIAS



TAKE-OFF DISTANCE AVAILABLE ~ METRES

# LANDING DISTANCE CHART

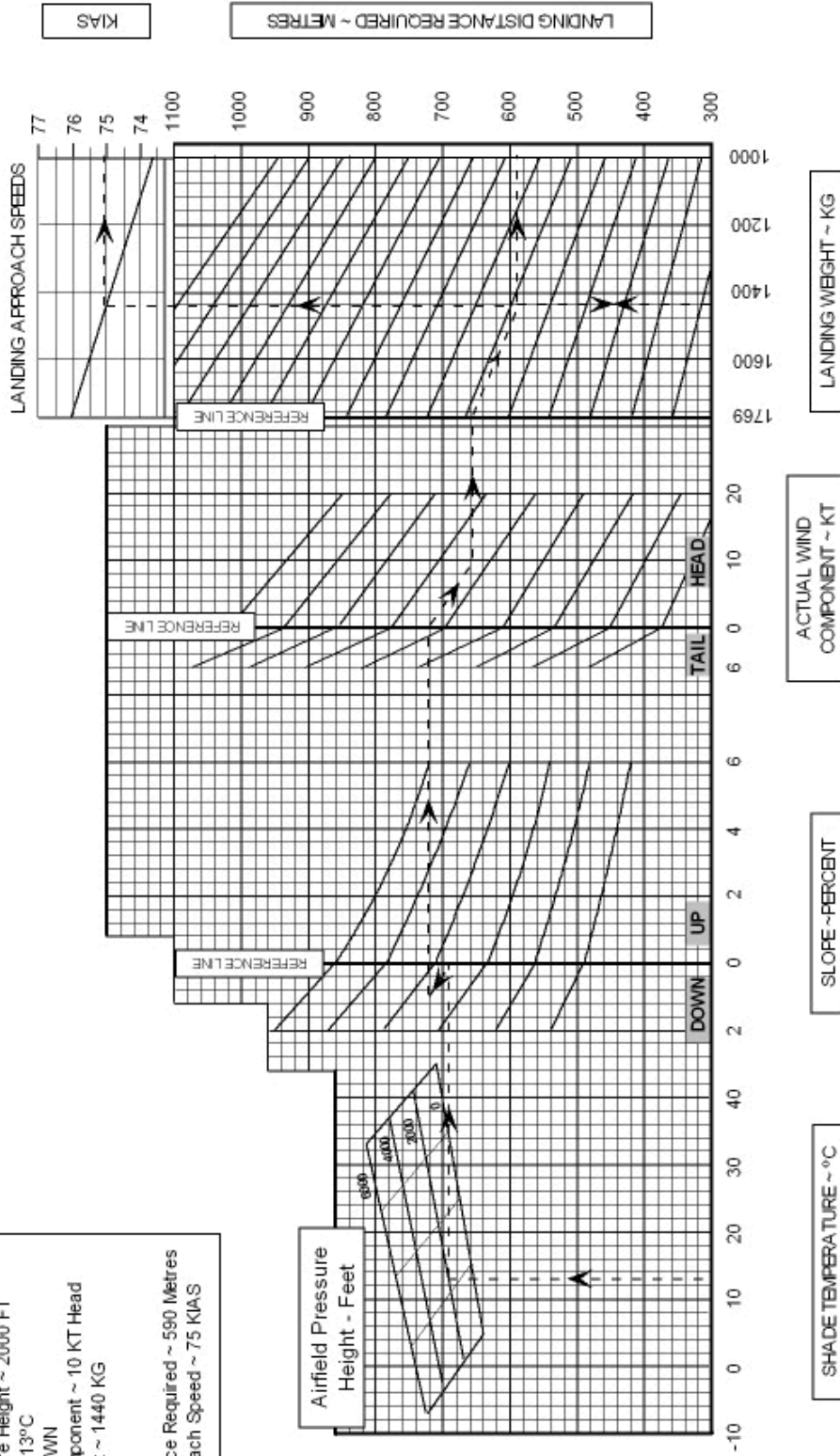
## BEECHCRAFT BE76 DUCHESS

### EXAMPLE

Airfield Pressure Height ~ 2000 FT  
 Temperature ~ 13°C  
 Slope ~ 1% DOWN  
 ATIS Wind Component ~ 10 KT Head  
 Landing Weight ~ 1440 KG

### SOLUTION

Landing Distance Required ~ 590 Metres  
 Landing Approach Speed ~ 75 KIAS



### CONDITIONS

Flap Setting ~ 35° (FULL DOWN)  
 Runway Surface ~ SHORT DRY GRASS  
 Landing Distance Factor ~ 1.15