MOONEY ENCORE, MODEL M20K - YEAR: 1998

LIMIT SPEEDS (KNOTS):

V_{so}: **61** (IAS) V_{fe}= **112** V_{lr}= **107** V_{lo}= **140** V_{le}= **165**

V_A : **123** @ 3130, **118** @ 2900, **104** @ 2250, **101** @ 2092 V_{no}= **174** V_{ne}= **195**

CLIMB SPEEDS (STD. CONDITIONS):

WEIGHT		3130
SEA LEVEL	V_x =	**71**
	V_y =	**96**
12,000 FT	V_x =	**74**
	V_y =	**94**

MAX RATE OF CLIMB (STD. CONDITIONS):

WEIGHT	3130	2600
SEA LEVEL	**1075**	**1300**
12,000 FT	**1025**	**1250**

CLIMB GRADIENT **FT/NM**

TAKEOFF/LANDING DISTANCES (STD. CONDITIONS, MAX GW):

	GROUND ROLL (FT)	CLEAR 50 FT OBSTCL (FT)
SEA LEVEL: WHEELS OFF	**1750**	**2400**
8,000 FT: WHEELS OFF	**2250**	**3200**
SEA LEVEL: WHEELS ON	**1200**	**2400**
8,000 FT: WHEELS ON	**1600**	**3050**

POWER SETTINGS & FUEL CONSUMPTION (STD. CONDITION):

% POWER	**75**	**65**	**55**	**45**	**35**
MP=RPM	**54**	**51**	**48**	**45**	**41**
GPH	**13**	**12**	**10.5**	**9**	**7.5**

LANDING APPROACH SPEEDS:

BASIC REFERENCE: GW = 3130#, FULL FLAPS,
NORMAL APCH, WITH PWR = **75 KTS**
WITH IDLE PWR, **+5;**
GW LESS 300#, **-5;**
SHORT FLD, **-5;**
NO FLAPS, **+9;**
FOR TURBULENCE ADD **1/2** THE GUST VELOCITY.
MAX GLIDE (CLEAN), **90 @ GW;**
GLIDE RATIO = **12** MILES FOR EACH **6000** FT ALTITUDE.

M20K/231
"IFR BY THE NUMBERS"

POWER + ATTITUDE + CONFIGURATION= PERFORMANCE

FLIGHT PHASE	POWER	ATTITUDE	CONFIG.	PERFORMANCE
INITIAL CLIMB	rpm: 2600 mp: 39"	+6°	flaps:up gear:up	ias: 90 kt vsi: +900 fpm
CRUISE CLIMB	rpm: 2600 mp: 33"	+3"	flaps:up gear:up	ias: 105 kt vsi: +800 fpm
CRUISE	rpm: 2400 mp: 33"	0°	flaps:up gear:up	tas: 160+ kt vsi: 0 fpm
ENROUTE DESCENT	rpm: 2400 mp: 21"	-3°	flaps:up gear:up	tas: 160+ kt vsi: -500 fpm
APPROACH LEVEL	rpm: 2400 mp: 20"	0°	flaps:up gear:up	ias: 120 kt vsi: 0 fpm
IFR/ILS DESCENT	rpm: 2400 mp: 18"	-3°	flaps:up gear:down	ias: 105 kt vsi: -500fpm
IFR/MDA LEVEL	rpm: 2400 mp: 17"	0°	flaps:up gear:down	ias: 105 kt vsi: 0 fpm
MISSED APPROACH	rpm: 2600 mp: 33"	+3°	flaps:up gear:up	ias: 105 kt vsi: +800 fpm
IFR LANDING	rpm: high mp: as reqd	-3°	flaps:down gear: down	ias: 80 kt vsi:-350 fpm