



Shenandoah Valley Soaring ASK-21 Cockpit Guide

N747SV

	Dual	Solo
Stall	38	35
Stall Spoilers	40	37
Min Sink	40	37
Best L/D	50	48
Pattern	55	

Approach 49 + wind + 1/2 gust

Aero Tow 97

Maneuver 97

Rough Air 108

Never Exceed 151

G Limits +6.4 -4.0

Pilot Wt 154 - 242 each

Useful Load 493 pounds

Radio Frequencies

Eagle's Nest CTAF:	123.05
Glider-to-Glider:	123.3
SHD CTAF:	123.0
SHD AWOS:	124.925
FSS:	122.2
Potomac Approach:	132.85

Speed to Fly (Dual):						
Sink (K)	0	1	2	3	4	5
Airspeed	50	59	68	73	78	84
Glider Sink	1.5	1.9	2.2	2.7	3.2	3.8
Total Sink	1.5	2.9	4.2	5.7	7.2	8.8
Glide Ratio	33	21	16	13	11	9

Speed to Fly (Solo):						
Sink (K)	0	1	2	3	4	5
Airspeed	48	54	59	65	73	78
Glider Sink	1.4	1.7	2.0	2.4	3.1	3.7
Total Sink	1.4	2.7	4.0	5.4	7.1	8.7
Glide Ratio	33	20	15	12	10	9

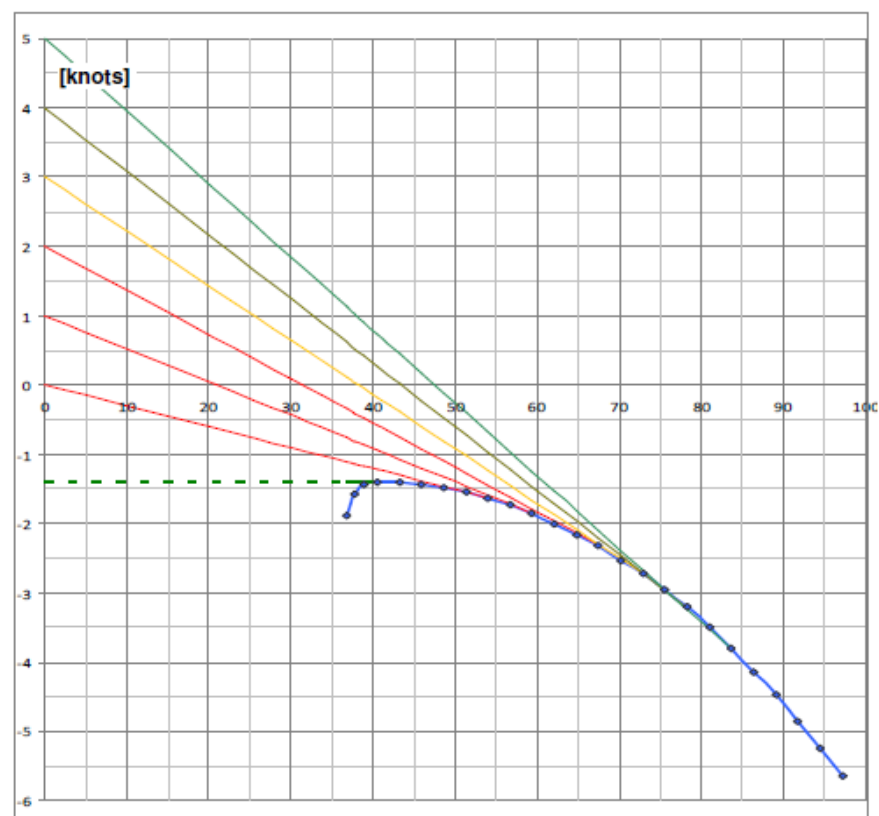
Min Sink Speed by Bank Angle: (Dual / Solo)

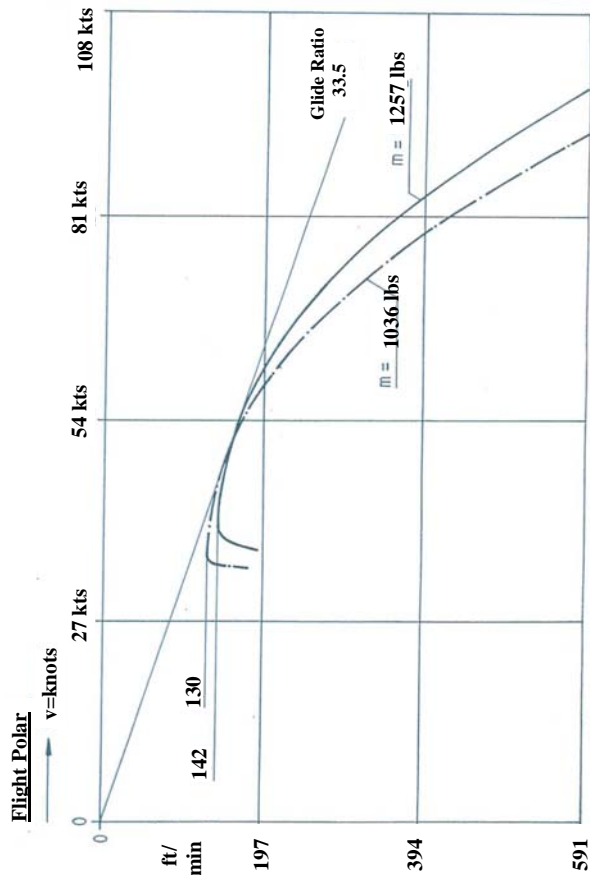
0 deg	15 deg	30 deg	45 deg	60 deg
40/37	41/38	43/40	48/44	57/52

Never Exceed Speed (Vne) by Altitude

SL	5 K	10 K	15 K	20 K
151	151	144	132	121

ASK-21





Shenandoah Valley Soaring ASK-21 Preflight Checklist

N747SV

Cockpit area

- Canopy condition, latches operable, main pins secured
- Ballast remove or install as needed—check bolts
- Battery secure, radio and instruments operable
- Main spar pins in place and secured
- Check for foreign bodies or loose items
- Documents in place
- Rudder S-tubes proper and fit, adjust
- Release mechanisms engage, release, cables return
- Nose tire 28 psi, main tire 38 psi, wheel brake engages

Left wing

- Upper & lower surfaces no damage, no fore/aft play
- Aileron condition, full travel, pushrod connected
- Airbrake condition, travel, fit, and locking

Inspection port

- Ailerons & airbrakes connected & secured with clips
- Check for foreign bodies

Fuselage

- Check for damage, especially bottom
- Static ports, pitot, & venturi tube clear

Tail

- Tailplane secured, pushrod connected, clip in place
- Rudder assembled & secured, cables connected
- Tail wheel 36 psi

Fuselage: same as on left

Right Wing: same as left

Cockpit area: complete inspection on right

Positive Control Check

Front Seat Ballast:

#	Min Lead Disks	Pilot Weight
0		154.3
1		151.6
2		148.8
3		146.6
4		143.3
5		140.5
6		137.8
7		135.0
8		132.3
9		129.5
10		126.8
11		124.0
12		121.2

**Have
a
Nice
Flight!**