

Hi all. I have an update on the Flo-Scan data. I performed an idle speed calibration. That has changed some of the MPG figures at low speed (below hull speed). I still haven't used enough fuel to perform a high speed calibration if necessary. But I did do one major change. I just installed a set of trim tabs and the change was remarkable above 2800 RPM. From 2800 to 3400 RPM, applying the trim tabs yield an immediate jump in speed by around 1 knot. It is quite noticable. It was also much more comfortable to get the bow down for visibility. Again, quite noticable. And I suspect that I have not yet maximized the gain. Decreasing the tab adjustment by just 1 click yields a noticable drop in speed. I believe I'm not at the top of the curve yet, because there should be a spot where adjusting the tabs by 1 click yields no noticable change. I believe there may be some additional gains by adjusting the power pistons to get additional activation of the tabs. I'll do that before the next time out. Below are the new numbers next to the old numbers for comparison sake. *[provided by Ed Kutchma, Pacific Pixie, hull #209]*

RPM	MPH-Knots	MPH w/Tabs	GPH	GPH w/Tabs	MPG(Knots)	MPG w/ Tabs
1000	4.5	4.8	.6	.6	8	6.3
1100	4.7	5.0	.7	.7	7	6.2
1200	5.3	5.4	.8	.8	6	6.1
1300	5.7	5.9	.9	1.0	5.6	5.8
1400	6.0	6.0	1.0	1.0	5.5	5.5
1500	6.2	6.2	1.1	1.2	6	5.3
Theoretical Hull Speed = $1.3 \times \text{sq rt LWL}$ = 6.5 knots = max cruising efficiency						
1600	6.6	6.6	1.2	1.2	5.3	5.2
1700	6.9	6.9	1.3	1.3	5.1	4.9
1800	7.1	7.1	1.4	1.5	4.7	4.6
1900	7.2	7.2	1.5	1.6	4.2	4.1
2000	7.4	7.4	1.9	1.9	3.9	3.9
2100	7.7	7.7	2.2	2.2	3.2	3.2
2200	7.9	7.9	2.6	2.2	2.8	2.8
2300	8.2	8.2	3.1	3.1	2.6	2.6
2400	8.4	8.4	3.4	3.4	2.4	2.4
2500	8.6	8.6	3.8	3.8	2.1	2.1
2600	8.9	9.2	4.4	4.2	2.0	2.1
2700	9.1	9.4	4.6	4.8	1.8	2.0
2800	9.3	10.1	5.7	5.2	1.7	1.9
2900	9.6	10.6	6.0	5.7	1.6	1.8
3000	10.2	11.2	6.8	6.3	1.5	1.8
3100	10.6	11.8	7.0	6.9	1.5	1.7
3200	11.2	12.6	7.7	7.7	1.5	1.6
3300	12.3	13.3	8.6	8.2	1.4	1.5
3400	12.7	13.7	9.3	9.9	1.4	1.4
3500	13.3	14.1	10.3	9.9	1.3	1.4
3600	14.0	14.6	11.0	10.7	1.3	1.3
3700	15.0	15.4	12.2	12.0	1.3	1.3

Max speed 3740 RPM Max speed w/ trim tabs 3850