

2010 Pilot Source Study –RESULTS

INDEPENDENT (Predictor) VARIABLE	DEPENDENT (Outcome) VARIABLE	Statistical Tests	Test Statistic	Statistically Significant?	Conclusions
COLLEGE DEGREE (Associate, Bachelor's, or None) N = 2156	EXTRA TRAINING EVENTS (Range 0-12)	ANOVA	$F(2,2153) = 1.16$	NO	Having a college degree did not produce a difference in number of extra training events.
COLLEGE DEGREE (Associate, Bachelor's, or None) N = 2156	COMPLETION (Yes, No)	Chi-Square	$\chi^2(2,2) = 2.41$	NO	There was no relationship between the number of incompletes and whether pilots had a college degree.
AVIATION DEGREE (Yes, No, or No Degree) N = 2156	EXTRA TRAINING EVENTS (Range 0-12)	t-Test	$t(2047) = 1.71, p < .05$	YES *	Aviation Degrees produced fewer Extra Training Events
AVIATION DEGREE (Yes, No, or No Degree) N = 2156	COMPLETION (Yes, No)	Chi-Square	$\chi^2(1,1) = 8.13, p < .01$	YES **	Aviation degrees produced comparatively fewer incompletes.
AABI FLIGHT PROGRAM (Yes, No, or No Degree) N = 2156	EXTRA TRAINING EVENTS (Range 0-12)	t-Test	$t(1545) = 6.09, p < .001$	YES ***	AABI flight programs produced fewer extra training events
AABI FLIGHT PROGRAM (Yes, No, or No Degree) N = 2156	COMPLETION (Yes, No)	Chi-Square	$\chi^2(1,1) = 16.43, p < .001$	YES ***	AABI flight programs produced comparatively fewer incompletes
MILITARY (None, Military Pilot [FW], Military Pilot [RW], Military Aviator [Non-Pilot], Military [Non-Aviator]) N = 2156	EXTRA TRAINING EVENTS (Range 0-12)	t-Test	$t(262) = 0.42$	NO	Prior military experience had no effect on extra training events <i>Note: The small # of military pilots (68) suggests that most military pilots go to directly to the major airlines.</i>
MILITARY (None, Military Pilot [FW], Military Pilot [RW], Military Aviator [Non-Pilot], Military [Non-Aviator]) N = 2156	COMPLETION (Yes, No)	Chi-Square	$\chi^2(1,1) = 0.84$	NO	There was no relationship between the number of incompletes and prior military experience. <i>Note: The small # of military pilots (68) suggests that most military pilots go to directly to the major airlines.</i>

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INDEPENDENT (Predictor) VARIABLE	DEPENDENT (Outcome) VARIABLE	Statistical Tests	Test Statistic	Statistically Significant?	Conclusions
SOURCE OF PILOT TRAINING (Military, College Degree, Non-College - Part 141 or Part 142, Non-College - Part 61) N = 2156	EXTRA TRAINING EVENTS (Range 0-12)	ANOVA	$F(3,2152) = 10.39, p < .001$	YES ***	Pilots trained in college had fewer extra training events than non-college pilots.
SOURCE OF PILOT TRAINING (Military, College Degree, Non-College - Part 141 or Part 142, Non-College - Part 61) N = 2156	COMPLETION (Yes, No)	Chi-Square	$\chi^2(3,1) = 30.16, p < .001$	YES ***	Pilots trained in college had comparatively fewer incompletes.
FLIGHT INSTRUCTOR (Yes, No) N = 2156	EXTRA TRAINING EVENTS (Range 0-12)	t-Test	$t(955) = 3.987, p < .001$	YES ***	Pilots who were flight instructors had fewer extra training events than pilots who were not flight instructors.
FLIGHT INSTRUCTOR (Yes, No) N = 2156	COMPLETION (Yes, No)	Chi-Square	$\chi^2(1,1) = 9.884, p < .01$	YES **	Pilots who were flight instructors had comparatively fewer incompletes.
TOTAL FLIGHT HOURS (0-500 Hours, 501-1000 Hours, 1001-1500 Hours, >1500) N = 2156	EXTRA TRAINING EVENTS (Range 0-12)	ANOVA	$F(3,2145) = 3.31, p < .05$	YES *	Pilots with 501 to 1000 hours had the fewest extra training events.
TOTAL FLIGHT HOURS (0-500 Hours, 501-1000 Hours, 1001-1500 Hours, >1500) N = 2156	COMPLETION (Yes, No)	Chi-Square	$\chi^2(3,1) = 17.24, p < .01$	YES **	Pilots with 501 to 1000 hours had comparatively fewer incompletes.
PREVIOUS EXPERIENCE (None, Previous corporate pilot, Previous airline pilot) N = 2156	EXTRA TRAINING EVENTS (Range 0-12)	ANOVA	$F(2,2153) = 2.51$	NO	Pilots with previous airline or corporate experience had the same number of extra training events as pilots with no previous experience.
PREVIOUS EXPERIENCE (None, Previous corporate pilot, Previous airline pilot) N = 2156	COMPLETION (Yes, No)	Chi-Square	$\chi^2(2,1) = 4.76$	NO	Pilots with previous airline or corporate experience had the same proportion of incompletes as pilots with no previous experience.

* = Significant
 ** = Very Significant
 *** = Exceptionally Significant