

## 2010 Pilot Source Study –RESULTS (v2)

INDEPENDENT (Predictor) VARIABLE	DEPENDENT (Outcome) VARIABLE	Statistical Tests	Test Statistic	Statistically Significant?	Conclusions
<b>FLIGHT INSTRUCTOR</b> (Yes, No) N = 2156	<b>EXTRA TRAINING EVENTS</b> (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.
<b>FLIGHT INSTRUCTOR</b> (Yes, No) N = 2156	<b>COMPLETION</b> (Yes, No)	Chi-Square	$\chi^2(1,1) = 9.884,$ $p < .01$	YES **	Pilots who were flight instructors had comparatively fewer incompletes.
<b>AABI FLIGHT PROGRAM</b> (Yes, No, or No Degree) N = 2156	<b>EXTRA TRAINING EVENTS</b> (Range 0-12)	t-Test	$t(1545) = 6.09, p$ $< .001$	YES ***	AABI flight programs produced fewer extra training events
<b>AABI FLIGHT PROGRAM</b> (Yes, No, or No Degree) N = 2156	<b>COMPLETION</b> (Yes, No)	Chi-Square	$\chi^2(1,1) = 16.43, p$ $< .001$	YES ***	AABI flight programs produced comparatively fewer incompletes
<b>SOURCE OF PILOT TRAINING</b> (Military, College Degree, Non-College - Part 141 or Part 142, Non-College - Part 61) N = 2156	<b>EXTRA TRAINING EVENTS</b> (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.
<b>SOURCE OF PILOT TRAINING</b> (Military, College Degree, Non-College - Part 141 or Part 142, Non-College - Part 61) N = 2156	<b>COMPLETION</b> (Yes, No)	Chi-Square	$\chi^2(3,1) = 30.16,$ $p < .001$	YES ***	Pilots trained in college had comparatively fewer incompletes.
<b>AVIATION DEGREE</b> (Yes, No, or No Degree) N = 2156	<b>EXTRA TRAINING EVENTS</b> (Range 0-12)	t-Test	$t(2047) = 1.71, p$ $< .05$	YES *	Aviation Degrees produced fewer Extra Training Events
<b>AVIATION DEGREE</b> (Yes, No, or No Degree) N = 2156	<b>COMPLETION</b> (Yes, No)	Chi-Square	$\chi^2(1,1) = 8.13, p$ $< .01$	YES **	Aviation degrees produced comparatively fewer incompletes.
<b>TOTAL FLIGHT HOURS</b> (0-500 Hours, 501-1000 Hours, 1001- 1500 Hours, >1500) N = 2156	<b>EXTRA TRAINING EVENTS</b> (Range 0-12)	ANOVA	$F(3,2145) = 3.31,$ $p < .05$	YES *	Pilots with 501 to 1000 hours had the fewest extra training events.
<b>TOTAL FLIGHT HOURS</b> (0-500 Hours, 501-1000 Hours, 1001- 1500 Hours, >1500) N = 2156	<b>COMPLETION</b> (Yes, No)	Chi-Square	$\chi^2(3,1) = 17.24,$ $p < .01$	YES **	Pilots with 501 to 1000 hours had comparatively fewer incompletes.

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INDEPENDENT (Predictor) VARIABLE	DEPENDENT (Outcome) VARIABLE	Statistical Tests	Test Statistic	Statistically Significant?	Conclusions
<b>COLLEGE DEGREE</b> (Associate, Bachelor's, or None) N = 2156	<b>EXTRA TRAINING EVENTS</b> (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.
<b>COLLEGE DEGREE</b> (Associate, Bachelor's, or None) N = 2156	<b>COMPLETION</b> (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.
<b>MILITARY</b> (None, Military Pilot [FW], Military Pilot [RW], Military Aviator [Non- Pilot], Military [Non- Aviator]) N = 2156	<b>EXTRA TRAINING EVENTS</b> (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>
<b>MILITARY</b> (None, Military Pilot [FW], Military Pilot [RW], Military Aviator [Non- Pilot], Military [Non- Aviator]) N = 2156	<b>COMPLETION</b> (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>
<b>PREVIOUS EXPERIENCE</b> (None, Previous corporate pilot, Previous airline pilot) N = 2156	<b>EXTRA TRAINING EVENTS</b> (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.
<b>PREVIOUS EXPERIENCE</b> (None, Previous corporate pilot, Previous airline pilot) N = 2156	<b>COMPLETION</b> (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