

GENERAL AVIATION STATISTICS DATABASE

APPENDIX H – USER'S GUIDE FOR THE DATABASE

CONTENTS

1	Definition of GA	1
2	Aircraft type	2
3	Database structure	2
4	Data entry	2
5	Data map	2
6	Data analysis	2
Appendix A	Detailed data map per category	3

The database contains information received from the different Civil Aviation Authorities contacted as part of the study on Statistical data, data analysis and recommendation on collection of data in the field of General Aviation in Europe.

1 Definition of GA

For the purpose of this study the following definition apply

- › On-demand activities (including Air-taxi (less than 19 passengers) and Business aviation)
- › Corporate aviation
- › Aerial work
- › Leisure flights including aerial sport
- › Training flights
- › Other types of flight that are neither military (state) nor commercial

2 Aircraft type

The aircraft type shall be defined using the ICAO Doc 8643 Aircraft Type Designators¹.

3 Database structure

The database structure is presented below

- > **0.0_Workbook data log:** summary of the different sections in the database
- > **0.1_Definitions:** terms and type of data considered in this database
- > **1_DataID:** overview of the data inserted in the database
- > **2_Full dataset:** compilation of the data entered in the database. It covers all the questions presented in the e-survey
- > **3_Analysis:** pivot table for the data analysis

4 Data entry

Data is entered via the e-survey prepared using the software Enalyzer to ensure coherence of the data entered in the database.

The output generated by the e-survey software must be converted to correct format in order to be introduced in the database. The conversion is done through dedicated Excel worksheet.

5 Data map

Data in the database are presented in the following categories:

- > General information:
- > Aircraft
- > Aircraft operations
- > Pilots
- > Aerodromes
- > Safety management system
- > Economic
- > Environment

Data that cover horizontal information e.g. year, data collection method, etc. are included in more than one category.

A detailed data map is presented in Appendix A.

6 Data analysis

Data analysis can be performed through Pivot Tables, according to the needs of the respective user. Alternatively, data analysis can be undertaken through specific *queries*².

¹ <http://www.icao.int/publications/DOC8643/Pages/default.aspx>

² The development of the queries was not part of the scope of this study.

Appendix A Detailed data map per category

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY							
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS	SAFETY MANAGEMENT SYSTEM
5	No 7	Name_of_organisation	X							
6	No 8	Type_of_organisation	X							
7	No 9	No_members_represented_by_the_Organisation	X							
8	No 10	Country_of_operation_or_base	X							
9	No 12	First_Name	X							
10	No 13	Last_Name	X							
11	No 14	Email	X							
12	No 15	Telephone	X							
13	No 17	data_on_GA_operations*_collected?	X		X					
14	No 19	aircraft_data_collected?			X					
15	No 20	aircraft_reasons_if_data_not_available			X					
16	No 22	regularity_data_collection			X					
17	No 26_1	data_provided_for_Fixed_Wing_Turboprop			X					
18	No 26_2	data_provided_for_Fixed_Wing_Piston_Engine			X					
19	No 26_3	data_provided_for_Fixed_Wing_Turbojet			X					
20	No 26_4	data_provided_for_Fixed_Wing_Turbofan			X					
21	No 26_5	data_provided_for_Rotary_Wing_Piston_Engine			X					
22	No 26_6	data_provided_for_Rotary_Wing_Turbine_Engine			X					
23	No 26_7	data_provided_for_Sailplane			X					
24	No 26_8	data_provided_for_Balloon			X					
25	No 26_9	data_provided_for_Other			X					
26	No 27_1	data_provided_for_Fixed_Wing_Turboprop_2014			X					
27	No 27_2	data_provided_for_Fixed_Wing_Turboprop_2013			X					
28	No 27_3	data_provided_for_Fixed_Wing_Turboprop_2012			X					
29	No 27_4	data_provided_for_Fixed_Wing_Turboprop_2011			X					

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY							
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS	SAFETY MANAGEMENT SYSTEM
30	No 27_5	data_provided_for_Fixed_Wing_Turboprop_2010			X					
31	No 27_6	data_provided_for_Fixed_Wing_Turboprop_2009			X					
32	No 27_7	data_provided_for_Fixed_Wing_Turboprop_2008			X					
33	No 45	data_provide_fixed_wing_turboprop_via			X					
34	No 46_1	data_provided_for_Fixed_Wing_Piston_Engine_2014			X					
35	No 46_2	data_provided_for_Fixed_Wing_Piston_Engine_2013			X					
36	No 46_3	data_provided_for_Fixed_Wing_Piston_Engine_2012			X					
37	No 46_4	data_provided_for_Fixed_Wing_Piston_Engine_2011			X					
38	No 46_5	data_provided_for_Fixed_Wing_Piston_Engine_2010			X					
39	No 46_6	data_provided_for_Fixed_Wing_Piston_Engine_2009			X					
40	No 46_7	data_provided_for_Fixed_Wing_Piston_Engine_2008			X					
41	No 64	data_provided_for_Fixed_Wing_Piston_Engine2			X					
42	No 65_1	data_provided_for_Fixed_Wing_Turbojet_2014			X					
43	No 65_2	data_provided_for_Fixed_Wing_Turbojet_2013			X					
44	No 65_3	data_provided_for_Fixed_Wing_Turbojet_2012			X					
45	No 65_4	data_provided_for_Fixed_Wing_Turbojet_2011			X					
46	No 65_5	data_provided_for_Fixed_Wing_Turbojet_2010			X					
47	No 65_6	data_provided_for_Fixed_Wing_Turbojet_2009			X					
48	No 65_7	data_provided_for_Fixed_Wing_Turbojet_2008			X					
49	No 83	data_provided_for_Fixed_Wing_Turbojet_via			X					
50	No 84_1	data_provided_for_Fixed_Wing_Turbofan_2014			X					
51	No 84_2	data_provided_for_Fixed_Wing_Turbofan_2013			X					
52	No 84_3	data_provided_for_Fixed_Wing_Turbofan_2012			X					
53	No 84_4	data_provided_for_Fixed_Wing_Turbofan_2011			X					
54	No 84_5	data_provided_for_Fixed_Wing_Turbofan_2010			X					

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY							
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS	SAFETY MANAGEMENT SYSTEM
55	No 84_6	data_provided_for_Fixed_Wing_Turbofan_2009			X					
56	No 84_7	data_provided_for_Fixed_Wing_Turbofan_2008			X					
57	No 102	data_provided_for_Fixed_Wing_Turbofan_via			X					
58	No 103_1	data_provided_for_Rotary_Wing_Piston_Engine_2014			X					
59	No 103_2	data_provided_for_Rotary_Wing_Piston_Engine_2013			X					
60	No 103_3	data_provided_for_Rotary_Wing_Piston_Engine_2012			X					
61	No 103_4	data_provided_for_Rotary_Wing_Piston_Engine_2011			X					
62	No 103_5	data_provided_for_Rotary_Wing_Piston_Engine_2010			X					
63	No 103_6	data_provided_for_Rotary_Wing_Piston_Engine_2009			X					
64	No 103_7	data_provided_for_Rotary_Wing_Piston_Engine_2008			X					
65	No 113	data_provided_for_Rotary_Wing_Piston_Engine_via			X					
66	No 114_1	data_provided_for_Rotary_Wing_Turbine_Engine_2014			X					
67	No 114_2	data_provided_for_Rotary_Wing_Turbine_Engine_2013			X					
68	No 114_3	data_provided_for_Rotary_Wing_Turbine_Engine_2012			X					
69	No 114_4	data_provided_for_Rotary_Wing_Turbine_Engine_2011			X					
70	No 114_5	data_provided_for_Rotary_Wing_Turbine_Engine_2010			X					
71	No 114_6	data_provided_for_Rotary_Wing_Turbine_Engine_2009			X					
72	No 114_7	data_provided_for_Rotary_Wing_Turbine_Engine_2008			X					
73	No 132	data_provided_for_Fixed_Wing_Turbine_Engine_via			X					
74	No 134	data_provided_for_Sailplane_via			X					
75	No 136	data_provided_for_Balloon_via			X					
76	No 137	other_aircraft_type			X					
77	No 139	data_provided_for_Other_via			X					
78	No 152	data_aircraft_operations_collected?				X				
79	No 153	if_data_aircraft_operations_collected_why?				X				
80	No 156	data_collected_via_online_questionnaire				X				

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY						
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS SAFETY MANAGEMENT SYSTEM
81	No 158	unit_distance_flown				X			
82	No 168	send_data_via_email				X			
83	No 179	type_flight_data_provided_via				X			
84	No 181	Number_aircraft_PBN_capabilities				X			
85	No 187	PBN_capabilities_data_collected?						X	
86	No 188	aircraft_advance_tech_reason_if_data_not_available			X				
87	No 190	PBN_capabilities_data_collected_regularly?						X	
88	No 192	provide_data_pilot_licenses_via						X	
89	No 193_1	provide_data_pilot_licenses_2014						X	
90	No 193_2	provide_data_pilot_licenses_2013						X	
91	No 193_3	provide_data_pilot_licenses_2012						X	
92	No 193_4	provide_data_pilot_licenses_2011						X	
93	No 193_5	provide_data_pilot_licenses_2010						X	
94	No 193_6	provide_data_pilot_licenses_2009						X	
95	No 193_7	provide_data_pilot_licenses_2008						X	
96	No 193_8	provide_data_pilot_licenses_None						X	
97	No 194	pilots_reason_data_not_available						X	
98	No 203	number_pilot_license_send_data_via_						X	
99	No 205_5	number_licenses_info_not_available						X	
100	No 206	type_pilot_license_send_data_via_						X	
101	No 208_3	ratings_data_not_available						X	
102	No 209	rating_send_data_via_						X	
103	No 210	planning_to_invest_new_technologies?						X	
104	No 211_1	planning_to_invest_new_technologies?NO_cost_of_these_technologies						X	
105	No 211_2	planning_to_invest_new_technologies?NO_cost_of_license						X	

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY							
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS	SAFETY MANAGEMENT SYSTEM
106	No 211_3	planning_to_invest_new_technologies?NO_regulation_bruden							X	
107	No 211_4	planning_to_invest_new_technologies?NO_not_applicable_to_activity							X	
108	No 211_5	planning_to_invest_new_technologies?NO_Other(specify)							X	
109	No 218	aerodromes_data_collected?		X						
110	No 219	aerodromes_reason_data_not_avaiable		X						
111	No 221	aerodromes_data_collected_regularly?		X						
112	No 223	aerodromes_data_provided_via		X						
113	No 226	aerodromes_data_sent_via		X						
114	No 229	ground_nav_data_sent_via		X						
115	No 235	information_safety_management_available?								
116	No 237	you_or_members_have_SMS?								
117	No 238	dedicated_personel?								
118	No 239	how_risk_managed?								
119	No 240	how_promote_safety_culture?								
120	No 243	economic_data_colelcted?					X			
121	No 244	economic_reason_if_data_not_available					X			
122	No 246	safety_management_data_collEcted_regular_basis?					X			
123	No 248	currency					X			
124	No 249	economic_data_provided_via					X			
125	No 251_10	Comments					X			
126	No 253	economic_data_provided_next_end					X			
127	No 255_1	bottlenecks_most_important_safety					X			
128	No 255_2	bottlenecks_most_important_environment					X			
129	No 255_3	bottlenecks_most_important_regulation					X			
130	No 255_4	bottlenecks_most_important_taxation					X			
131	No 255_5	bottlenecks_most_important_capacity					X			

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY							
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS	SAFETY MANAGEMENT SYSTEM
132	No 255_6	bottlenecks_most_important_infrastructure					X			
133	No 255_7	bottlenecks_data_provided_access_services					X			
134	No 256	bottlenecks_how_affect_development_GA					X			
135	No 257	airport_capacity_problem?					X			
136	No 258	airport_charges_problem?					X			
137	No 259	airport_charges_problem_which_charges?					X			
138	No 260	airport_charges_in_what_way?					X			
139	No 261_12	Other					X			
140	No 262	groundhandling_data_provided_via_					X			
141	No 263	groundhandling_competition_exist_in_the_sector?					X			
142	No 264	groundhandling_issues_GA?					X			
143	No 268	charges_certification?					X			
144	No 269	charges_registration?					X			
145	No 271	tax_possession?					X			
146	No 272	tax_operation?					X			
147	No 273	tax_luxury?					X			
148	No 274	charges_tax_others?					X			
149	No 276_3	fuel_other					X			
150	No 277_1	VAT_exemption_Jet_Fuel?					X			
151	No 277_2	VAT_exemption_Aviation_gasoline?					X			
152	No 277_3	VAT_exemption_others?					X			
153	No 278	fuel_data_provided_via_					X			
154	No 279	level_insurance_bottleneck?					X			
155	No 281_1	data_provided_ondemand_activities					X			
156	No 281_2	data_provided_ondemand_corporate					X			

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY							
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS SAFETY MANAGEMENT SYSTEM	
157	No 281_3	data_provided_aerial_work					X			
158	No 281_4	data_provided_leisure					X			
159	No 281_5	data_provided_training					X			
160	No 281_6	data_provided_via_mail					X			
161	No 281_7	data_not_provided					X			
162	No 284	data_not_available_reasons					X			
163	No 287	data_not_available_reasons_corporate					X			
164	No 290	data_not_available_reasons_aerial_work					X			
165	No 293	data_not_available_reasons_leisure					X			
166	No 296	data_not_available_reasons_training					X			
167	No 304	environment_data_available						X		
168	No 305	environment_are_you_impacted_by_directive_GHG?						X		
169	No 307	Does the ETS/allowances cover your need to perform your activities? if not, what is the cost?						X		
170	No 309	how_monitor_CO2_emission?						X		
171	No 310	specific_procedures_reduce_CO2_emission?						X		
172	No 311	measures_taken_reduce_Co2?						X		
173	No 312_1	measures_NOT_taken_too_expensive						X		
174	No 312_2	measures_NOT_taken technically impossible						X		
175	No 312_3	measures_NOT_taken_no_need						X		
176	No 312_4	measures_NOT_taken_other						X		
177	No 314	noise_complains_due_to_GA_activities?						X		
178	No 315_1	noise_measures_taken_noise_operating_restrictions						X		
179	No 315_2	noise_measures_taken_opeational_procedures_LTO						X		
180	No 315_3	noise_measures_taken_icnentives_renew_fleet						X		
181	No 315_4	noise_measures_taken_other						X		
182	No 316_1	noise_measures_reason_data_not_collected						X		

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY							
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS	SAFETY MANAGEMENT SYSTEM
183	No 316_2	noise_measures_data_not_collected_reason_no_data_available						X		
184	No 316_3	noise_measures_data_not_collected_reason_no_interest						X		
185	No 316_4	noise_measures_data_not_collected_reason_other						X		
186	No 318	reasons_not_able_to_provide_data	X							
187	No 319	related_reports_studies	X							
188	No 320	data_provided_via_	X							
189	-	Year			X	X	X		X	
190	-	Type of aircraft			X				X	
191	-	Type of engine / propulsion			X					
192	-	Number of engines			X					
193	-	Type of Activity				X	X			
194	-	Type of Flight				X				
195	-	Data collection method		X	X	X	X		X	
196	-	Type of Respondent		X	X	X	X		X	
197	-	Type of Pilot License							X	
198	-	License_Rating_Qualifications							X	
199	-	Type of Aerodromes		X						
200	-	Ground_NAV_equipment		X						
201	-	Workforce_type_job					X			
202	-	direct_employment					X			
203	-	average_wages					X			
204	-	Groundhandling_services					X			
205	-	Type_fuel					X			
206	-	amount_fuel (gallons)					X			
207	-	Number_hours_flown		X	X	X	X		X	

Database Column No	E-survey Question No	LABEL_ID / DESCRIPTION	CATEGORY							
			GENERAL INFORMATION	AERODROMES	AIRCRAFT	AIRCRAFT OPERATIONS	ECONOMY	ENVIRONMENT	PILOTS	SAFETY MANAGEMENT SYSTEM
208	-	average_distance_flown				X				
209	-	number_takeoffs_landings				X				
210	-	Aircraft_average_age			X					
211	-	Number_Aircraft			X					
212	-	Pilot_average_age							X	
213	-	Number_pilot_licenses							X	
214	-	Number_pilot_license_per_type							X	
215	-	number_pilot_license_ratings_per_type							X	
216	-	number_airports_offering_service					X			
217	-	average_cost_service					X			
218	-	...the_total_turnover/revenue_of_air_taxi_services_(M/year)					X			
219	-	...number_of_air_taxi_service_suppliers_(Stock)					X			
220	-	...number_of_aircraft_used_for_air_taxi_services_(Stock)					X			
221	-	...the_total_value_of_aircrafts_used_for_the_supply_of_air_taxi_services_(Stock)					X			
222	-	...the_average_rate_of_depreciation_(Percentage/year)					X			
223	-	...the_number_of_people_employed_for_the_supply_of_air_taxi_services_(FTE/Year)					X			
224	-	...the_total_amount_of_expenses_for_fuel_(M/year)					X			
225	-	...the_total_amount_of_expenses_for_airport_charges/_fees_(M/year)					X			
226	-	...the_total_amount_of_expenses_for_wages_and_salaries_including_social_contributions					X			
227	-	...the_total_amount_of_expenses_for_groundhandling_(M/year)					X			
228	-	...the_total_amount_of_expenses_for_other_expenses_(M/year)					X			
229	-	...the_profits_before_taxes_resulting_from_air_taxi_services_(M/year)					X			
230	-	MTOM			X					