

PDF User Guide
for
*ACRP Research Report 202:
Developing Innovative Strategies for Aviation
Education and Participation*



The study findings were compiled into individual Landing Pages that can be searched by keywords within categories. This user guide provides an explanation of how to use this tool, as well as a listing of the keywords that can be used in a search. The categories and keywords selected provide the most comprehensive breakdown of filters for resources. Although a diverse assortment of activities is provided, it is expected that each organization will need to adapt the activities to best fit the enthusiasts' or educators' needs and those of their students/participants.

The PDF documents can be used to review the resources in several ways:

- Presorted Tables
- Individual Activity Landing Pages

The reader can search the PDFs by keyword to find an activity they wish to view. As an example, to find a type of activity, the user can use the search function (Ctrl + F) to type in "camps," and all the Landing Pages that are identified as camps will appear in the search. If the user wants to find activities that would be free to the participants, the keyword to search would be "free."

Presorted Tables

The three primary categories that participants in the study noted as being key for consideration were the type of activity, the target age group (age of the participants), and the cost of the activity to the participant. The summary of the landing pages has been sorted by these three criteria, each listed as a separate table for easier review by the reader in the PDF titled "Presorted Tables."

- Table Sorted by Activity Type
- Table Sorted by Target Age Group
- Table Sorted by Cost per Person

These three tables are also provided at the end of the core document. These tables only summarize the landing page information for cursory reference and should the reader want additional information on a specific activity, they should consult the Individual Activity Landing Pages PDF.

Individual Activity Landing Pages

A second PDF, titled "Landing Pages," contains more than 100 activities for review. Each organization interviewed that provided information about offered activities is summarized in what have been dubbed Landing Pages. The first section of the landing page is a quick review of the categories and keywords related to this activity. A description of the activity is listed next along with contact information and attachments of related material if applicable, or if the material is too lengthy, a web address to the location where the material can be found online is provided.

Although a diverse assortment of activities is provided for consideration, it is expected that each organization will need to adapt the activities to best fit the enthusiasts' or educators' needs and those of their students/participants.

In some cases, the source website provided an excellent description of the activity or activities offered. In these instances, the text provided in the corresponding landing page has been directly pulled from the source.

How to Use the PDFs

The PDFs can be used as standalone pieces of information or as a complement to each other.

The presorted tables are intended to provide the reader with an easy to navigate listing of the activities found in the landing pages, sorted by the three key categories.

Once a reader reviews the table and identifies an activity of interest they can reference the Landing Page PDF to review the specific pages related to the activity they wish to learn more about. This can be done by finding the activity and clicking the hyperlink located in the table at the beginning of the Landing Page PDF. Specific pages can also be located by using the Bookmark function to reach the desired landing page or by using the search feature (CTRL + F) and typing in the landing page's title.

The Landing Page PDF allows a reader more flexibility in their search since they can review the bookmarks for specific activity names that may be of interest. They may also use the Ctrl + F function to search by key words that will reference all of the landing pages containing the searched word or text.

The PDFs include multiple tools to find information:

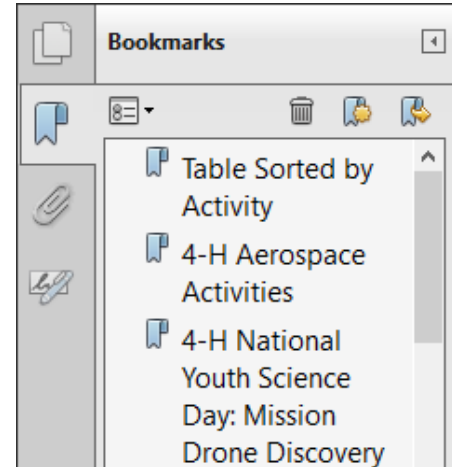
In the Presorted Table PDFs, activities are listed in tables sorted in three different ways:

- a. By Activity Type
- b. By Target Age Group
- c. By Cost Per Person

In the Individual Activity Landing Pages PDF the reader can click on an activity title in the table located at the beginning of the document to go to that activity's page in the PDF.

Activity	Target Group	Title	Duration	Emphasis	Staff	Venue	Provider
Class/ Workshop	PS	Middle Tennessee K-12 Teacher Renewal	>3 days	STEM	FT/PT/ V	Classroom, Airport	University
Camp	H	Midland Aviation Camp	>3 days	O	V	Airport	Organization
Tours	E/M/ H/PS	Midland Community Aviation Discovery Area	<3 hours	STEM	V	Airport	Airport
Flight Instruction	E/M/ H	Midland EAA Young Eagles	<3 hours	O	V	Airport	Organization
Camp	H	Minnesota ACE Camp	>3 days	STEM	V	Classroom, Airport, Hangar	State
Class/ Workshop	H	Minot High School Aviation I and II Courses	>3 days	STEM	FT	Classroom	School

This PDF also includes Bookmarks, which are like a table of contents. This includes links to each table and each activity. A reader can click on the bookmark to go to that specific page in the PDF file.



Explanation of Categories and Keywords

More than a dozen different categories and keywords have been used to catalog the information collected from the aviation program providers. These cover a range of topics that describe their individual programs and provide the reader with a way to sort the data to find activities that may be of interest to them. Each of these has several sub-sections that provide more detail within that category and are explained below.

Activity

This category focuses on defining the type of activity that is offered by the provider. Because of the wide range of different activities and the diversity of each program, a general framework was created that all activities could fit within, resulting in eight (8) keywords that best describe them in a broad context.

- Camp – typically an event that lasts more than one day in length
- Class/Workshop – an event that occurs once or more, with each meeting lasting 8 hours or less
- Tours – includes site visits and tours of facilities such as airports, museums, etc.
- Internship – opportunities for longer-term interaction with the provider
- Flight – opportunities to obtain flight training or free aircraft rides
- Club – a group that meets on a regularly scheduled basis
- Grant/Scholarship – funding provided for Aviation Education
- Contest – an aviation related competition

Target Age Group

There are many ways to segment the activities by target age group, and they ranged by ages (5-10 years old or 16 – 18 years old, etc.) as well as grades in school (5th and 6th graders or high schoolers). The chosen method to segment the activities was to use general school classifications noted below.

- Elementary School – Kindergarten to 5th grade students
- Middle School – 6th grade to 8th grade students
- High School – 9th grade to 12th grade students
- Post-Secondary – beyond high school

Title

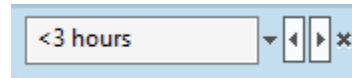
The title is the name of the event/activity used by the local provider to describe the event. There are no sub-sections for this category.

Duration

The duration of an activity ranges from just a few hours to multiple days, often depending upon the type of activity and the age group of the participants. Many programs geared toward younger children were under 3 hours long while older participants often experienced multi-day events.

- Less than 3 hours
- 3-8 hours
- 1-3 days
- More than 3 days

Looking for an activity that will only take up a few hours? Use the Ctrl + F function to search for activities that are "<3 hours."



Emphasis

Many providers focus their programs on more technical subjects that allow providers to include STEM topics while others have also included art and even operational topics in their programs. This can often allow them to market their programs to a wider audience since they can offer a STEM-focused curriculum.

- Science
- Technology
- Engineering
- Art
- Math
- Operational

Staff

The method used to staff a program is very important to what can be offered. In many instances, having several full-time paid employees charged with managing the programs on a day-to-day basis is necessary for some of the larger providers while others are successful with largely volunteer or part-time staff support.

- Full-time staff
- Part-time staff
- Volunteers
- Parents







Venue

The facility used to house or host the activity ranges greatly and is often tied to the type of event and emphasis.

- Classroom
- Hangar – often used as a classroom or if aircraft are involved in the learning event
- Airport
- Laboratory
- Online
- Auditorium – often used when the groups are larger
- Museum

Provider

The providers range from state level agencies to local community organizations. Icons identify each Landing Page by the provider of the activity. These icons represent the following:

- State 
- Museum 
- University/College 
- School 
- Organization 
- Airport 

Specialized Equipment

In some instances, equipment, beyond what would typically be available in a classroom environment (such as pencils, paper, books, etc.) may be required to facilitate the activity provided in the program.

- Aircraft
- Simulators
- UAS
- Computers

Cost per Person

The cost per person is focused on the amount charged to participate in the activity, not the cost to host the event. In many cases the event is offered to the participants at no cost yet the expenses for putting on the event are paid through various sources as noted in the next category.

- Free – Free of charge
- \$ - Under \$25
- \$\$ - \$26 - \$100
- \$\$\$ - More than \$100

Funding Source

Funding comes from a wide array of sources. Often providers are drawing from more than a single source to fund their specific activities.

- Self-funded
- Grants
- Donations
- Admission fees
- Tuition fees
- Membership fees

Number of Participants

The number of participants often varies greatly depending upon the type of activity, the available funding of the venue and even the number of staff.

- Small – 0-20 participants
- Medium – 21-50 participants
- Large – 51-100 participants
- X - Large – 101 or more participants

Year Established

In some instances, providers shared the year in which the activity was established; however, many of the programs have evolved over time and no specific date was provided. Due to the number of activities that were unable to provide this information, it appears on the individual landing pages but not in the tables. This category can still be used as a search item in the landing pages document.

Region

To provide a geographic context for each activity, the FAA region in which the activity takes place is noted.

- AK – Alaskan Region – Alaska
- CE – Central Region – IA, KS, MO, NE
- EA – Eastern Region – DC, DE, MD, NH, NY, PA, VA, WV
- GL – Great Lakes Region – IL, IN, MI, MN, ND, OH, SD, WI
- NE – New England Region – CT, MA, ME, NH, RI, VT
- NW – Northwest Mountain Region – CO, ID, MT, OR, UT, WA, WY
- WP – Western Pacific Region – AZ, CA, HI, NV
- SO – Southern Region – AL, GA, FL, KY, MS, NC, PR, SC, TN
- SW – Southwest Region – AR, LA, NM, OK, TX



Source: FAA

7.2.1 Website

To allow the reader to find more information about the activity, the website address for their organization, at the time of writing, has been provided when available.

7.2.2 Attachments

In many instances, the organizations provided some resource materials for this project. These resources have been attached at the end of their corresponding Landing Page. If there are two pages or less, they have been labeled as “simple,” and if more than two pages were provided, they are labeled as “complex.”

Presorted Tables

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- Table Sorted by Activity Type (Pages 96 – 102)
- Table Sorted by Target Age Group (Pages 103 – 109)
- Table Sorted by Cost per Person (Pages 110 – 116)

In addition to being located in a standalone PDF, these tables are located at the end of the core document.