

2008 ESRI GIS Grant Program for 4-H (U.S.)

Description and Application Procedure—Intermediate-Level Grant

Application period: January 1–February 28, 2008
Early applications will not be reviewed.

The goal of this program is to foster and support the integration of geographic information system (GIS) applications in U.S. 4-H clubs. ESRI has created the 2008 ESRI GIS Grant Program for U.S. 4-H in cooperation with National 4-H Headquarters within the Cooperative State Research, Education, and Extension Service (CSREES)/U.S. Department of Agriculture (USDA) to support its geospatial outreach, education, and community involvement efforts.

Grants for software, introductory training, and other materials will be awarded to U.S. 4-H clubs completing successful application and acceptance by the February 28, 2008, submission deadline.

The 2008 ESRI GIS Grant Program for U.S. 4-H is one aspect of a multifaceted ESRI 4-H initiative being developed by ESRI in cooperation with National 4-H Headquarters within CSREES/USDA that will help its members expand their current programs including the National 4-H GIS/GPS Technology Team and the National 4-H Science, Engineering and Technology (4-H SET) mission mandate. Visit <http://www.fourhcouncil.edu/scienceengineeringtechnology.aspx>.

The 2008 ESRI GIS Grant Program for U.S. 4-H consists of two grant options for 4-H clubs. Clubs should apply for the option most appropriate for their individual club situation.

- **Introductory grant level:** 2008 ESRI GIS Grant Program for U.S. 4-H is for 4-H clubs new to GIS and GPS technology.
- **Intermediate grant level:** 2008 ESRI GIS Grant Program for U.S. 4-H is for 4-H clubs that have successfully applied for and received software under a previous ESRI GIS Grant for U.S. 4-H and have successfully completed the grant requirements of submitting a Community Atlas project, participating in a GIS Day event, and completing a community service project.

Definition of Terms

Eligible participants—4-H uses a variety of delivery modes to reach youth. Although the term *club* is used throughout this document, for this program it means a 4-H community or in-school club, 4-H after-school program, 4-H special interest group, 4-H school enrichment group,

4-H camp, or similar 4-H unit that meets together regularly for 4-H youth development program delivery and has been recognized as an authorized 4-H group within a state's 4-H program, with a list of enrolled youth members and approved adult volunteer 4-H leaders or 4-H agents on file. This includes 4-H programs in the 50 U.S. states, the District of Columbia, Puerto Rico and the island areas (American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, the Virgin Islands, and Palau), and domestic and overseas U.S. military installations. This opens the program to more than 400,000 4-H clubs and their members.

Permitted software uses—Software provided to 4-H clubs under this program will be licensed to a single club and can be used for noncommercial club business including activities such as educational training and community research and activism. The software cannot be used in the normal business of a county office, research center, school, or other organization that supports a 4-H club and cannot be used by clubs, members, or volunteers to provide paid services to commercial or noncommercial entities. The software can be installed on club and club member (youth and adult) personal computers commensurate with club needs up to a total of 25 individual computers and in keeping with the above-prescribed uses. The club software will be licensed by ESRI to the club's approved adult volunteer 4-H leader or 4-H agent as the license administrator and primary end user. Questions regarding appropriate use or club license needs above the 25-seat maximum should be sent to ESRI staff at 4-HGIS_external@esri.com.

Nonendorsement—No endorsement of ESRI and its products or services by the National 4-H Headquarters, CSREES/USDA, or the land-grant institutions is implied or intended.

Grant Program Description

Intermediate GIS Grant for 4-H Clubs with Experience in GIS and GPS Technology

The 2008 ESRI GIS Grant Program for U.S. 4-H has been established to support national 4-H efforts aimed at bringing GIS and other geospatial technologies to young people and qualified adults involved with U.S. 4-H clubs.

The grant covers a period of essentially one 4-H project year from the date of grant approval and software receipt through September 30, 2009. (See [Use of Software beyond September 2009](#) for license use beyond the grant period.) The grant includes a youth club license of selected software for Windows® computers and Windows CE devices, books, and Web-based resources.

Materials Included in Grant

GIS Software and Data

1. Maintenance subscription to bring existing 25-seat youth club licenses of ArcView, ArcView Spatial Analyst, and ArcPad to the most current technology level, ArcView 9.x and ArcPad 7. This maintenance subscription will provide ArcView technical support and software upgrades for one year.
2. A 25-seat youth club license of ArcGIS Publisher (Windows).
3. A 25-seat youth club license of Maplex for ArcGIS (Windows).
4. Updated ESRI Data & Maps CD series.

GIS Books and Training Materials

1. One copy of *Designing Better Maps*
2. One copy of *Mapping Our World: GIS Lessons for Educators*—ArcGIS Desktop Edition
3. One copy of *Fun with GPS*
4. One copy of *Getting to Know ArcGIS* self-study book
5. One copy of *Zeroing In*
6. One copy of *Mapping Census 2000*
7. One copy of *Mapping the Future of America's National Parks*
8. An ESRI Virtual Campus youth club subscription with access to
 - Learning ArcGIS
 - Learning ArcGIS Spatial Analyst
 - Working with ArcPad
 - Learning ArcGIS 3D Analyst
 - Introduction to ArcGIS Geostatistical Analyst
 - Introduction to ArcGIS Network Analyst
9. Unlimited access to lesson packages at ArcLessons (www.esri.com/arclessons)

10. Links to the Geography Network, with special focus on community-level physical and human geographic data
11. Facilitation with access to local GIS data via various ESRI users and related groups
12. Ongoing 24/7 technical assistance via the ESRI Web support area

The following are optional ArcView 9.x extensions that may be included in your grant application request if needed to support your Community Atlas or community service project. Include a description of the use of the requested extensions as it relates to your projects.

- A 25-seat youth club license of ArcGIS 3D Analyst (Windows)
- A 25-seat youth club license of ArcGIS Geostatistical Analyst (Windows)
- A 25-seat youth club license of ArcGIS Network Analyst (Windows)
- CITYgreen software by American Forests (www.americanforests.org)

Note: Clubs should understand software system requirements and descriptions (found at www.esri.com/products.html) to determine which version is the most appropriate for the club to request. Any software exchanges must be conducted within 30 days of delivery.

The grant does not include on-site installation, training, and implementation/support services beyond those noted above. The grant also does not permit any nonclub use of the granted software applications as discussed above in the Permitted software uses section.

The grant assumes and recommends that each club will seek added or ongoing mentoring assistance from GIS users in its area.

Use of Software beyond 2009

2008 grant recipients are expected to participate in a GIS Day event; submit a project to the ESRI Community Atlas Program (ESRI CAP) by May 22, 2009; and complete a community GIS Service Learning Project by September 30, 2009. Successful ESRI CAP participants will receive an award of one year of annual maintenance (technical support and upgrades). For 4-H club grant recipients, the ESRI CAP award will be a permanent license of the ESRI software products in their possession, in keeping with the license guidelines set forth in ESRI CAP.

Participation in ESRI CAP within the school calendar year 2008/2009 is a mandatory provision of the grant. Please read the essential guidelines (note size limitations) for the ESRI CAP **prior** to beginning your project at www.esri.com/communityatlas.

Clubs not participating in the ESRI CAP or completing the other grant requirements can continue to use the software in their possession by paying a licensing fee for the various software applications.

Information about the licensing and annual maintenance fees is available by contacting ESRI (4-HGIS_external@esri.com). Clubs wishing to earn maintenance in lieu of payment may submit an additional Community Atlas project on an annual basis. Likewise, 4-H clubs wishing to pursue software for ArcView 3 (upgrades and ongoing technical support) should contact ESRI at the above e-mail address.

Grant recipients that have not completed the grant requirements by September 30, 2009, must remove installed software from all club computers. A letter describing this also must be sent to ESRI and the National 4-H GIS/GPS Technology Leadership Team leads at that time (4-HGIS_external@esri.com).

Provisions

To meet the goals of the 2008 ESRI GIS Grant Program for U.S. 4-H, clubs must agree to complete the following:

1. Take part in GIS Day by participating in or hosting an informational event for local youth, community leaders, and the public. The GIS Day event may be conducted anytime prior to September 30, 2009. For more information about GIS and to register your GIS Day event, visit www.gisday.com.
2. Participate in the ESRI Community Atlas Program, completing and submitting a project by May 22, 2009. Visit www.esri.com/communityatlas.
3. Institute or expand the use of GIS in their 4-H club activities.
4. Undertake at least one club community GIS service learning project (an expansion of, or in addition to, the Community Atlas project) aimed at any of the following: community evacuation and shelter mapping, a local social or environmental issue, historical change, or general community research or a project of other community importance. For more ideas on what this research might be, explore the ESRI 4-H project Web site (www.esri.com/4-H); ESRI Community Atlas Program Web site (www.esri.com/communityatlas); as well as that for the My Community, Our Earth Program (<http://www.aag.org/sustainable/resources/index.cfm>) under the Mentoring/Resources/Project Resources tab.

5. Make at least one presentation to the community service project organization, community organization, other 4-H clubs, youth, and/or leaders in their state during the grant period.
6. Submit two performance reports as scheduled.
7. Optional: Contribute to 4-H Youth Favorite Places project (www.youthfavoriteplaces.org).
8. To the club's advantage: Participate once in a monthly 4-H GIS/GPS conference call hosted by USDA. Two nationwide conference calls are usually offered each month. Notification of conference calls and other pertinent communication will be distributed via the 4HGISGPS LISTSERV. To be added to this LISTSERV, e-mail dunha003@umn.edu.

Performance Reporting

Grant recipients agree to provide the National 4-H GIS/GPS Technology Leadership Team and ESRI with performance reports on the progress of the club after the award. 2008 grant performance reports are due December 31, 2008, and the final report is due September 30, 2009. The reports should address and provide a status of the club's progress toward meeting the provisions of the grant, along with other club geospatial and community activities of note. Photos (high-resolution JPEG) and maps may be sent as separate reference documents with the report. Please provide the report in Microsoft® Word format. The digital reports are to be submitted to 4-HGIS_external@esri.com.

Application Due Date

The National 4-H GIS/GPS Technology Leadership Team must receive grant applications no later than **February 28, 2008**, for the applications to be considered. The 2008 grant application review and approval process will begin March 17, 2008. Only the club applications successfully meeting all requirements will be approved and awarded grants.

Grant Application Review Process

Members of the National 4-H GIS/GPS Technology Leadership Team will review all the applications and submit grant recipient recommendations to ESRI for assignment of awards. ESRI will provide the National 4-H GIS/GPS Technology Leadership Team with a list of clubs receiving awards.

Date of Award Notification

All grants will be awarded by April 30, 2008.

Procedure for Application

Please complete the grant application and submit your application by e-mail to: 4-HGIS_external@esri.com no later than close of business February 28, 2008.

Each club application must include a response for each of the following:

A. 4-H club profile with the following details:

1. 4-H club name
2. ESRI customer number (required)
3. Grant level that the application is for (Introductory or Intermediate)
4. Organization agency responsible for club
5. Club mailing address (P.O. Box or street, city, state, and ZIP)
6. Organization physical site address for UPS delivery including street name and number, city, state, and ZIP
7. Club Web site, if one exists
8. Primary club contact information:
 - A primary contact is an approved adult volunteer 4-H leader or 4-H agent. (Note: This individual will become the club's software license administrator and the registered primary end user with ESRI.)
 - Primary contact mailing address, phone, fax, and e-mail (e-mail required for Virtual Campus and initial notification).
9. Secondary club contact information:
 - The secondary contact is an approved adult volunteer 4-H leader or 4-H agent.
 - Secondary contact mailing address, phone, fax, and e-mail (e-mail required for Virtual Campus and initial notification).

B. Club members and community information:

1. Description of estimated population demographics and geographic area encompassed by club activities/members. County name and the type of community served: rural, small town, urban, inner city, military base, or other
2. Estimated number of adults and ages and number of youth club members who will be involved including anticipated ages and number of youth and adult members

C. Description of hardware and software to be used:

1. Specify whether you will need any of the optional extensions available under the Intermediate grant. Please support your request with the ArcGIS extension name and a short description of how it will be used.

2. Information about computer(s) on which the software will be installed.
 - Number of computers
 - Operating system configurations, RAM
 - Types and locations (e.g., home computers, club laptops)
3. Information on any computer networks involved
4. Information on Internet access
5. Brief description of any club GPS receivers, PDAs, or other field data collection tools

D. General response questions:

1. Brief description of the planned Community Atlas project. Please review Community Atlas guidelines and see example projects before submitting your description (www.esri.com/communityatlas).
2. Brief description of planned community service learning project involving GIS technology.
3. Why is the inclusion of GIS in your club activities important?
4. How does your club plan to contribute to the creation or further development of the 4-H Technology Action Plan in your state?
5. Why should your 4-H club be considered for the 2008 ESRI GIS Grant Program for U.S. 4-H?

E. GIS activities:

1. Description of ongoing GIS and other geospatial activities (e.g., specific programs created, presentations made, conferences attended, training events undertaken). Please submit photos and map examples separately to 4-HGIS_external@esri.com.
2. Brief description of previously completed Community Atlas project and your community service projects using GIS technology
3. Brief description of past GIS Day participation
4. Description of plans for 2009 and beyond toward building, maintaining, and expanding GIS and other geospatial activities by the club. In other words, what is the club's long-term vision surrounding the incorporation of geotechnologies into its activities? Likewise, how will this vision involve the club with the local community?

Each application must include a digital letter of support from the state 4-H coordinator (one page maximum).

If you have questions regarding the application, e-mail 4-HGIS_external@esri.com or explore www.esri.com/4-H.

Submitting Your Application

The application period is January 1 through February 28, 2008. Applications received prior to January 1 will not be considered.

The 2008 4-H grant application may be submitted January 1, 2008, to February 28, 2008, to 4-HGIS_external@esri.com. Please check the ESRI Grant Programs Web page after December 20, 2007, for full grant and submittal information (<http://www.esri.com/grants> > education).

Each applicant must submit an application, including the submittal of a state 4-H coordinator's letter of support, in accordance with the limitations and specifications noted earlier.

The e-mail subject heading of the application should read: County, State: 2008 4-H GIS Intermediate Grant Application (for example, Washington, UT: 2008 4-H GIS Intermediate Grant Application).

ESRI is hosting the e-mail link for 4-HGIS_external@esri.com, which will deliver all inquiries to the National 4-H GIS/GPS Technology Leadership Team leads as well as key ESRI education staff. The 2008 GIS grant review and award recommendations will be the role of the National 4-H GIS/GPS Technology Leadership Team.

If a club wishes to discuss the activities of the National 4-H GIS/GPS Technology Leadership Team, please contact

Jim Kahler
Program Specialist
USDA/CSREES
Surface Mail:
U.S. Department of Agriculture
Stop 2225, 1400 Independence Avenue, SW
Washington, DC 20250-2225

Office Location and Address for Delivered Items:
Waterfront Centre
800 9th Street, SW, Room 4317
Washington, DC 20024

202-690-1568 (direct line)
E-mail: JKAHLER@csrees.usda.gov

Learn More About

4-H Geospatial Curriculum, Exploring Spaces,
Going Places: <http://www.n4hccs.org/>

National 4-H Science, Engineering and Technology (4-H SET) mission mandate:
<http://www.fourhcouncil.edu/scienceengineeringtechnology.aspx>

ESRI GIS for 4-H:
www.esri.com/4-H

ESRI Community Atlas Program:
www.esri.com/communityatlas

CITYgreen Environmental Education Program:
www.americanforests.org

4-H is a community program of young people across America learning leadership, citizenship, and life skills.
www.4-H.org
www.crn4h.org (4-H AES site)

ESRI and its K–12 Education Program:
<http://edcommunity.esri.com>
www.esri.com

GIS and Careers:
www.gis.com

GIS Day:
www.gisday.com

My Community, Our Earth:
<http://www.aag.org/sustainable>

United States Geological Survey Geospatial Education Outreach and online lessons:
<http://rockyweb.cr.usgs.gov/public/outreach>

National Geographic's My Wonderful World:
www.mywonderfulworld.org

GPS Adventures

EarthCaching: <http://www.earthcache.org> (promotes environmental stewardship and educational activities)

Geocaching: <http://www.geocaching.com>

Confluences: <http://www.confluence.org>

Iowa State GPS Kit:
<http://www.extension.iastate.edu/e-set/gpskits.html>

Free Minnesota Department of Natural Resources Garmin ArcGIS extension to transfer Garmin GPS points to an ESRI shapefile:
<http://www.dnr.state.mn.us/mis/gis/tools/arcview/extensions/DNRGarmin/DNRGarmin.html>

Easy GPS—Freeware to transfer and manage GPS waypoints and routes (and transfer to ArcGIS):
www.easygps.com

GPSy—GPS resource library:
www.gpsy.com/gpsinfo/

Geospatial Industry Workforce Information System:
www.giwis.org

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Intermediate-Level Grant Frequently Asked Questions (FAQs)

Use this checklist to be sure you've addressed all the required information for your application.

- Application document to include
 - Club name
 - ESRI customer number (required)
 - Grant level that application is for (Introductory or Intermediate)

Club Adult Contact Information

- Primary club contact (adult) name
- Organization
- Title
- Street address
- Postal address (if different)
- City
- State
- ZIP
- Telephone
- Fax
- E-mail
- Secondary club contact (adult) name
- Organization
- Title
- Street address
- Postal address (if different)
- City
- State
- ZIP
- Telephone
- Fax
- E-mail

Club Membership

- Demographics and geographic area served by club (county list)
- Club Web site (if available)
- Club membership description including number of youths and adults

Hardware and Software

- Computer availability (quantity)
- Operating system(s) and RAM
- Types and locations of computers (e.g., home computers, club laptops)
- Description of peripheral equipment (PDAs, GPS, printers, plotters)
- Internet availability
- ArcView version specified

General Response Questions

- Brief description of planned Community Atlas project
- Brief description of planned community service project
- Why is the inclusion of GIS in your club activities important?
- How does your club plan to contribute to the creation or further development of the 4-H Technology Action Plan in your state?
- Why should your 4-H club be considered for the 2008 ESRI GIS Grant Program for U.S. 4-H?
- Current GIS activities
- Brief description of previously completed Community Atlas and community service projects using GIS technology
- Brief description of past GIS Day participation
- Letter of support from state 4-H technology director or coordinator

2008 4-H Intermediate Grant Requirement Checklist

- Participate in or host GIS Day event (www.gisday.com).
- Submit short performance report by December 31, 2008.
- Make at least one presentation to other 4-H clubs, youth, and leaders in your state during the initial grant period.
- Complete community service learning project involving geospatial technologies.
- Complete and submit Community Atlas project by May 22, 2009.
- Submit final performance report by September 31, 2009.
- Optional: Contribute to www.youthfavoriteplaces.org.
- To the club's advantage: Participate in monthly 4-H GIS/GPS conference calls hosted by USDA. Two nationwide conference calls are usually offered each month. Notification of conference calls and other pertinent communication will be distributed via the 4HGISGPS LISTSERV. To be added to this LISTSERV, please e-mail dunha003@umn.edu.

Submit grant applications between January 1 and February 28, 2008, by e-mailing your application to 4-HGIS_external@esri.com (Note: There is an underscore after GIS.). Please cc yourself in the e-mail. Submit subsequent reports to 4-HGIS_external@esri.com. Microsoft Word format is preferred.