

National Park Service Challenge Cost Share Project Interim Report

Return form to: Lewis and Clark National Historic Trail, Challenge Cost Share Program,
601 Riverfront Drive, Omaha, Nebraska 68102.

- Include a spreadsheet detailing expenses for the budget categories with this report.

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Project Name or Title: Lewis, Clark and Beyond (formerly Lewis and Clark gNET)

Project Number: FY06-49

Field Area: Midwest Region

Park or Trail: Lewis and Clark National Historic Trail

Name/ Address/ Telephone/ Email of Person Completing this Report:

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Interim Status Report:

Briefly describe the status of the Trail project products and results in measurable terms achieved to date. Attach reports &/or documents, pictures, invoices and/ or interim product example as applicable:

LCBeyond Project Status Report – July 2007 - Sep 2008

This report summarizes the activities performed during the 2007-08 grant year and the no-cost extension through Sep 30, 2008. It is provided for completeness in year-to-year tracking. Some details are omitted due to overlap of the Jul 07-Sep 07 quarter in reporting periods from the previous year-end report. Those details can be found in the 2006-2007 year-end report. Be sure to see the final accomplishment report for a full description of the project.

All activities during this time period are considered "maintenance," and do not reflect any website development work. However, during maintenance procedures, reliability of website was increased by several levels due to rearrangement systems and file organization.

Challenge Cost Share Administration

- Completed and submitted interim report for Q1

Compression Server

- Moved from the media lab to PKI 367

Database

- Moved the web-interface for the database to an SSL encrypted site for enhanced security

Equipment and Materials Purchase

- Delivered 3 of 4 external 1TB external hard drives to NPS – Last will be delivered with final copy of code
- Completed tape delivery of all PKI (copies and masters) LC tapes to NPS
- Hard drives used for video editing moved to developer machines as attached storage for backups.

NetApp Storage Device

- NetApp file storage system deemed unusable for production websites due to age and reliability concerns. Stopped using NetApp system for file storage of videos and website content.

New Servers for Long-Term Site Hosting

- Installed new Dell servers to replace legacy hardware in LC rack.
 1. Database server
 2. Flash Media Server (with updated software)
 3. 2x Web servers
 4. Firewall
- Installed pfSense-based firewall / port-forwarder to help secure servers from outside attack
- Added strict firewall rules for systems to discourage brute force password attacks
- Filesystem of website hosted on mirrored hard drives in new server equipment

General Website

- Updated administration and front-side pages to reflect new video folder organization.
- Reset Streaming FLV media for new server with updated service.

Multimedia Lab and Post-Production Class

- Removed video editing set up that uses external hard drives
- Compression server relocated to PKI 367
- Storage server (controller computer) removed from media lab

Personnel

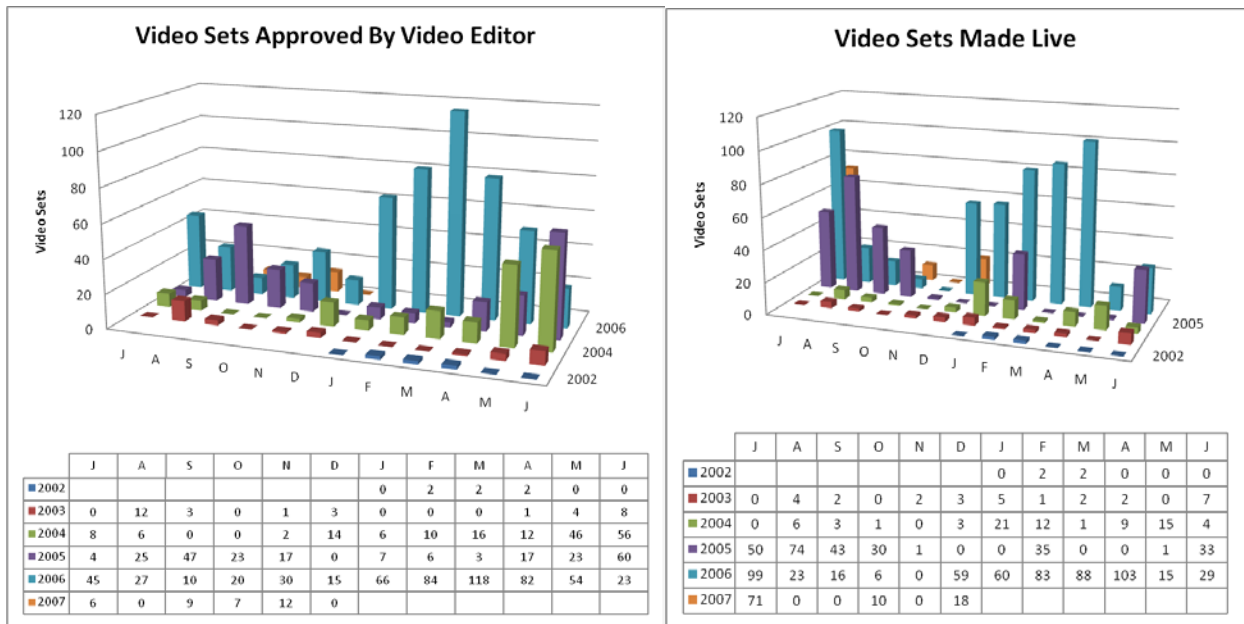
- IS&T supported temporary student worker to install new firewall system for the servers.
- M. Semisch hired for temporary video editing and capturing
- All video editors were either moved to another project or were not extended past January.

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Videos

- Captured as many of remaining tapes as possible using Premier AVI format
- Stored on large high capacity system hosted by PKI for potential future editing
- Moved all live videos off of NetApp
- Removed archived copy of videos folder from storage
- Under the hood: restructured video folder so that all files are indexed by first letter. Speeds up web server video file-lookup and eases management of files on site.
- Performed detailed clean up of video files so each file has at least one FLV format.

The following charts compare video set progress and production over the year compared to previous years. As the project funding for personnel was completed after Dec 2007, video editors and content managers no longer produced videos. The lack of 2008 data in both graphs reflect the situation.



Since the previous year-end report, and additional 19 videos were completed by the video editors. During the final quarter of video editing, 28 more video sets went live.

Website Statistics

The graphs below show the change in website statistics over the year. After the school year in 2007, there is a dramatic drop-off in website activity which continues into September. January 2008 had a surge in traffic for unknown reasons. There was no planned no marketing campaign or classroom activity. A table with the raw data and legend follows.

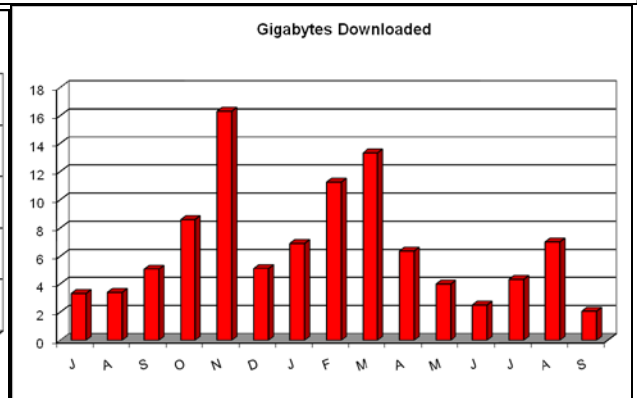
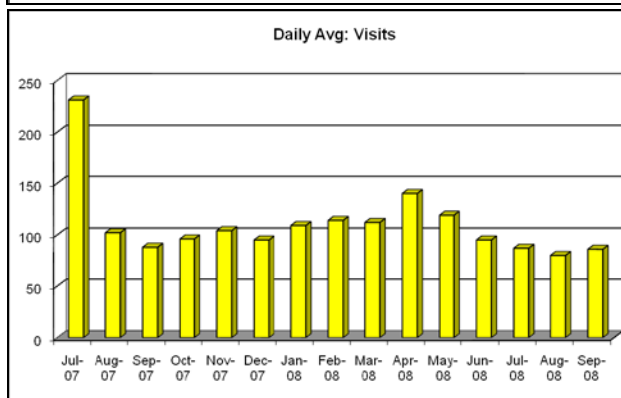
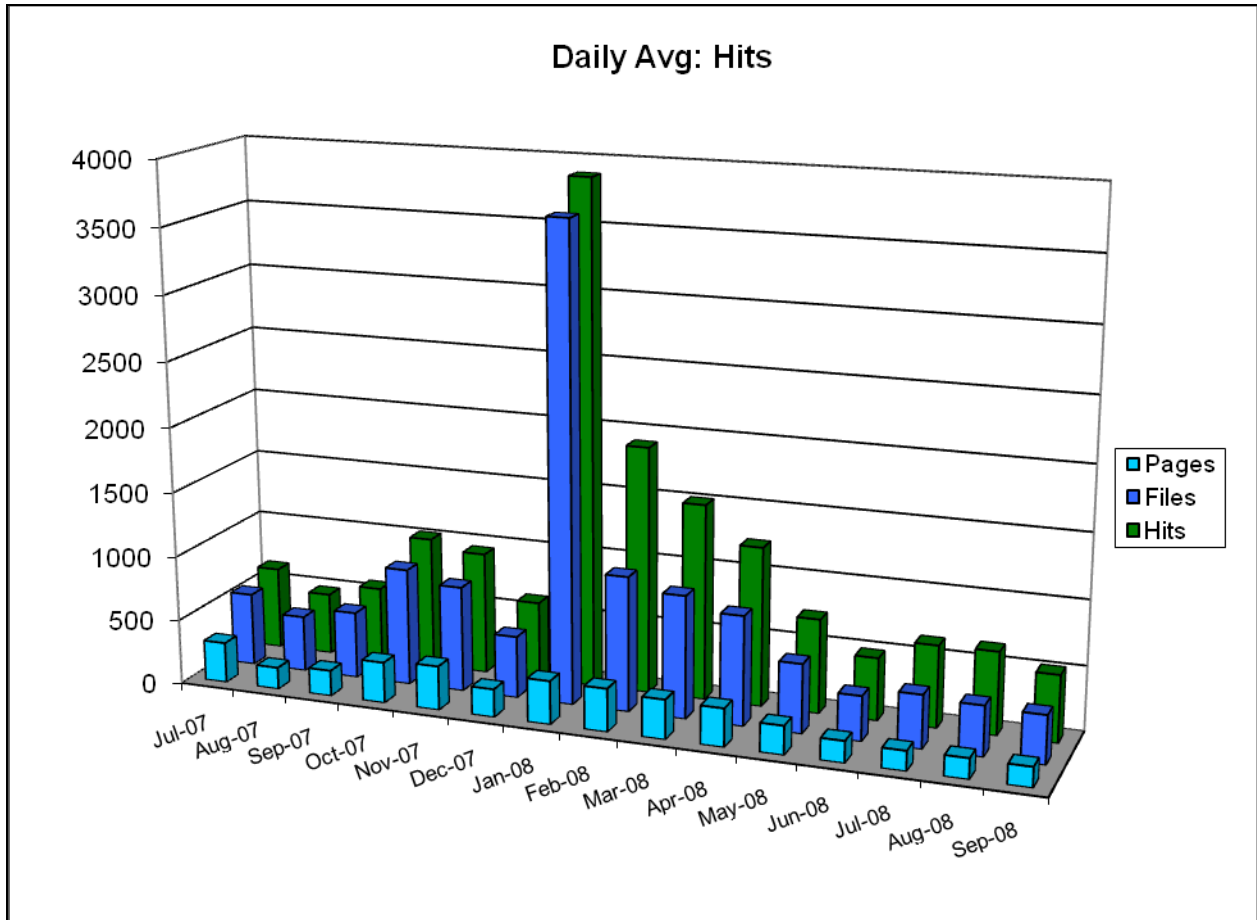


Table of Web Stats for Lewis, Clark and Beyond <http://www.lewisclarkandbeyond.com/> July 07 - Sep 08

Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	GBytes	Visits	Pages	Files	Hits
Jul-07	637	562	312	231	2096	3.314580917	7178	9674	17445	19750
Aug-07	477	431	168	102	1406	3.389771461	3191	5236	13368	14795
Sep-07	572	513	198	88	1369	5.067995071	2656	5960	15394	17162
Oct-07	1,018	902	315	96	1594	8.592451096	2,980	9,787	27,970	31,577
Nov-07	945	813	339	104	1585	16.30601883	3,142	10,194	24,402	28,352
Dec-07	605	477	216	95	1296	5.113928795	2,960	6,710	14,812	18,765
Jan-08	3,878	3,651	334	109	1753	6.900873184	3,404	10,363	113,211	120,220
Feb-08	1,903	1,040	331	114	1605	11.2445507	3,328	9,599	30,175	55,190
Mar-08	1,508	945	304	112	2026	13.30832863	3,485	9,446	29,310	46,769
Apr-08	1,228	843	294	140	2088	6.358837128	4,206	8,843	25,304	36,866
May-08	727	532	221	119	1873	3.983143806	3,706	6,871	16,507	22,560
Jun-08	483	345	166	95	1097	2.490140915	2,862	4,980	10,364	14,509
Jul-08	632	410	152	87	985	4.310147285	2,716	4,737	12,727	19,597
Aug-08	638	386	157	80	894	7.006917953	2,495	4,878	11,995	19,808
Sep-08	517	372	154	86	1122	2.056342125	2,593	4,648	11,161	15,512

Hits	-- Server responses
Files	-- All files served (images, web, text)
Pages	-- PHP and HTML files served
Visits	-- Unique IP addresses, sampled every 30 minutes
Sites	-- IP addresses requesting content
GBytes	-- Gigabytes transferred from server to client

Information gathered from Webalizer 2.0 report

Interim Project Costs:

Provide details of your project thus far, such as position titles, goods and/or services purchased, etc. in an attached spreadsheet. This should reflect your budget description as detailed in your original Challenge Cost Share application, unless your grant was amended and approved through the NPS office.

Final Report ending 09/30/08

This data is a copy of the data provided by in the final accomplishment report.

Interim Project Costs:

Provide details of your project thus far, such as position titles, goods and/or services purchased, etc. in an attached spreadsheet. This should reflect your budget description as detailed in your original Challenge Cost Share application, unless your grant was amended and approved through the NPS office.

Budget Categories	NPS Share	Partners Share
a. Personnel	\$ <u>709,496.76</u>	\$ <u>353,914.81</u>
b. Fringe Benefits	\$ <u>90,857.99</u>	\$ <u>67,657.80</u>
c. Consultant Fees	\$ _____	\$ _____
d. Travel	\$ <u>7,190.39</u>	\$ _____
e. Equipment	\$ <u>8,286.83</u>	\$ <u>387,680.00</u>
f. Supplies	\$ <u>117,389.21</u>	\$ _____
g. Indirect	\$ _____	\$ _____
h. Volunteer	\$ _____	\$ _____
i. Construction	\$ _____	\$ _____
j. Other	\$ <u>32,778.82</u>	\$ <u>900,000.00</u>
Interim Project Total:	\$ <u>2,675,252.61</u>	
Total NPS Share	\$ <u>966,000.00</u>	% of Project Costs <u>36.1</u>
Total Partner(s) Share	\$ <u>1,709,252.61</u>	% of Project Costs <u>63.9</u>
Other Federal Dollars used	\$ _____	% of Project Costs _____

Certification of interim project report from Site Manager and Partner: We certify that the aforementioned interim project report was prepared in a manner consistent with the stipulations of our CCSP application and agreement.

Partner Project Manager

Date