Submitted: June 2011

#### **FINAL REPORT**

Project Title: GIS Map of West Virginia Civil War Conflicts

Contributors: Jessica L. Brewer, WVGISTC; Kurt Donaldson, WVGISTC

Administration/Contact: Kurt Donaldson, Manager, WV GIS Technical Center, Department of Geology and Geography, West Virginia University, 330 Brooks Hall, P.O. Box 6300, Morgantown, WV 26506-6300, Phone: (304) 293-9467, Fax: (304) 293-6522, E-Mail: Kurt.Donaldson@mail.wvu.edu, Web: <u>http://wvgis.wvu.edu</u>

**Collaborating Organization:** WV State Historic Preservation Office (SHPO)

#### **PROJECT SUMMARY**

The GIS Map of West Virginia Civil War Conflicts compiles all known skirmishes, battles and conflict areas occurring throughout the state during the American Civil War. The West Virginia GIS Technical Center, under the purview of the West Virginia State Historic Preservation Office, researched and digitized point and polygon features that represent each of these conflict sites. There were 300 known skirmishes and battles between June 3, 1861 and April 1865. While the purpose of this project was to inventory and locate each site in order to more efficiently facilitate inquiries from the public, it is most importantly, a collection of comprehensive historical data that serves as the foundation for more extensive future projects. Ultimately, the map is the basis for preservation, education and awareness of a state that was a critical battleground, both figuratively and literally, during the Civil War.

Each digitized feature was given attributes relative to the available historical data found during the course of research at West Virginia Regional History Collection, the West Virginia Division of Culture and History State Archives, the Official Records of the War of the Rebellion, various primary and secondary battle maps and atlases, and other primary and secondary source material. Each source used as references for the project has been documented in Appendix A.

#### **PROJECT HIGHLIGHTS**

The issues surrounding the Civil War were critical in the formation of the state on June 20, 1863, as was the course of the war transversely impacted by its creation. The first land battle of the Civil War was at Philippi, West Virginia and the Baltimore and Ohio Railroad, the most contested and sought-after artery of transportation during the war, not only was the cause and site of numerous conflicts between the north and south, but was the reason behind much of the state's unique shape.

There were several major operational campaigns of which significant portions were fought in West Virginia. Some battles lasted for days, while others a few short hours, yet all had a lasting impact on the outcome of the war. Some cities like Martinsburg and Romney changed hands dozens of times and

were the sites of numerous conflicts. Yet other parts of the state, as in the northern panhandle, escaped the destruction caused by battles during the war. As a result, it was at times difficult to pinpoint exact locations of the battles. In truth, much of the state was traversed in one way or another by Confederate and Union armies, and creating stringent boundaries proved to be problematic. Ultimately, the boundaries created for each site and area represent the interpretation of the researcher after collecting in-depth data from multiple sources.

Most accounts of the battles were taken from *The Official Records of the War of the Rebellion*, a compilation of primary source data in the form of letters, telegrams, orders and maps written by the officers leading both the Union and Confederate armies. These accounts described the action occurring during the war, some very detailed, as in the case of much of the Gauley River area and Eastern Panhandle. They were used in conjunction with Civil War era atlases and map sketches. Once a location was obtained for each conflict site, it was compared with USGS topographical maps and 2009 NAIP orthophotographic imagery in order to position each point as accurately as possible. If a definitive location could not be established, a polygonal area was digitized that most closely represented all known landmarks and features detailed in the battle accounts.

There were two files created for the project: a point shapefile and a polygon shapefile. While the point shapefile contains an individual point for every known battle/skirmish site, the polygon file identifies the area and extent of action given the information available via the *Official Records of the War of the Rebellion*, other correspondence, atlases, and any additional primary source material. The following table summarizes the features created during the project:

Battle/Skirmish Features	
Points	300
Polygons	51
Total Features Digitized	351

## PROCESS

#### Identification

The first step in the process was to identify the conflict events that occurred in West Virginia. Each conflict was labeled skirmish, battle, engagement, expedition or affair. According to <u>www.civilwarhome.com</u> a skirmish was a "limited combat, involving troops other than those of the main body" and an engagement, affair or battle was a conflict where the main body was involved as well. While this definition is limited and somewhat subjective, it generally identifies skirmishes as those small conflicts occurring throughout the war between small groups of soldiers, whereas a battle, affair or engagement was a major action taking place between a large group or several troops of soldiers.

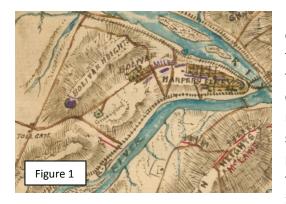
Approximately a third of the conflicts during the Civil War in West Virginia were "Affairs", "Actions" or "Engagements", while the "Skirmishes" numbered several hundred. Some of these skirmishes were decidedly more significant than others, often becoming turning points for the North and the South. For example, the April 26, 1863 skirmishes at Rowlesburg, lasting but a few hours, and by all accounts should have probably been a southern victory, were by, cunning, strategy and a little bit of luck significant victories for the Union in that they prevented a costly and devastating destruction of the Baltimore and Ohio Railroad, an important line that supplied troops and supplies to western areas.

### Verification and Validation

The initial data for the project was supplied by the State Historic Preservation Office and then verified by the West Virginia GIS Technical Center through extensive historical research. Initially each battle/skirmish was researched in secondary sources, such as National Geographic's *Atlas of the Civil War* and various internet sources, including local and county historical societies, the National Park Service, and the National Battlefield Protection Program. For a complete list of sources, please see Appendix A.

The SHPO master list of battle/skirmishes contained the city, date of the event and identified each event as a skirmish, affair, engagement or expedition. With this information, a general search of information was implemented, of which the most significant and well-known battles, such as Harpers Ferry, Charles Town, Martinsburg, Fayetteville, Romney, and Princeton returned multiple sources that detailed most components of event. The greatest difficulty in sorting the information for each battle/skirmish was in isolating the minor skirmishes for each site. For instance, Harpers Ferry experienced some type of conflict, officially, at least 12 times during the Civil War, and for the most part, the destruction of the armory, bridges, and the battles near Boliver and Maryland Heights are detailed in most accounts. There is little mention of the other 8 minor conflicts, and ultimately the only reference to them was often in *The Official Records of the War of the Rebellion*, and even then, there was perhaps a single line that stated that it occurred on a particular date and who the commanding officers were in the skirmish. For a list of features in which limited information existed and how they were identified, see Appendix C. If a skirmish could not be identified after all sources were consulted, then it was not digitized. For a list of non-digitized, but SHPO supplied sites, see Appendix C.

The SHPO master list of events was populated from multiple sources (according to the SHPO representative), and as a result contains a number of duplicate sites under various or alternate names, making it difficult at times to identify the event during the research process. For example, Harpers Ferry and Bolivar Heights were listed as separate events occurring in Harpers Ferry and Bolivar Heights, when in one case, this was the same event, although the "event" took place over a wide area (downtown Harpers Ferry area and Bolivar Heights area, see figure 1).

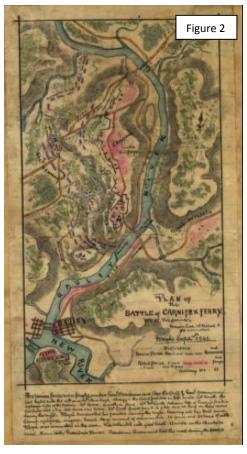


It was through careful research and an extensive comparison process, that any possible duplicate features were identified correctly. Great care was taken in ensuring that both events were not double or even triple listed and that events were not left out merely because they were in close proximity and shared the same date with another event. The primary methodology for ascertaining the validity of the features was its presence in *The Official Records of the War of the Rebellion*. If the skirmish/battle was

specifically listed in *The Official Records of the War of the Rebellion*, then it was included. A field was created in the final shapefile that includes any alternate names for each battle/skirmish. The primary name used for the battle was selected based on its reference in The *Official Records of the War of the Rebellion*. For a complete list of duplicate events, see Appendix C.

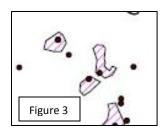
After removing duplicate entries in the SHPO master list, a search was completed for additional skirmishes occurring in the state that may have not been included. Again, not only are there over 300 known battle/skirmish sites in the state, but there were in all likelihood a number of undocumented ones, making it difficult to compile a fully comprehensive list. Whenever events were not included, but verifiably occurred, they were added to the dataset. It is quite possible that as the map is reviewed, sites still may need to be added based on additional research, local knowledge and suggestions from the users. For a list of added features see Appendix C.

A final master list was created which served as the primary inventory utilized in the project. After completing a general search for data in secondary sources, which essentially provided supplementary and foundational information that aided in primary source research, each battle/skirmish was researched individually in *The Official Records of the War of the Rebellion*, military correspondence, and maps /atlases



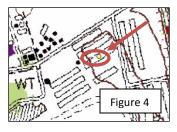
housed at various institutions, including the Library of Congress American Memory Digital Map Collection and The David Rumsey Collection (see example figure 2). For a complete list of sources and websites consulted, please see Appendix A.

## Digitization



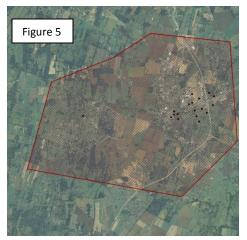
Every event digitized was done so only when primary research material supported its existence. Each of these references is contained within an attribute field in the point shapefile. Given that the bibliographic information for each source was extensive, a key was developed to identify them. A key to the sources is provided in both this report in Appendix A and the metadata associated with the shapefile.

After the research process was complete, each event was digitized in a point shapefile [see figure 3]. Given that the battles/skirmishes did not only occur at a specific point, each digitized point is a representation of the location of the battle, set at approximately the center of the area in which the event took place. To supplement the point shapefile, a polygon shapefile was created that incorporated each point and the approximate area, according to the completed research, that the conflict took place [see figure 3]. It should be noted that these areas are somewhat subjective in



that they are based on the descriptions provided by the primary source materials and are interpretations thereof.

Each digitized point was located spatially with the aid of USGS topographic maps and 2009 NAIP orthophotographic imagery [see figures 4 & 5]. These resources were most helpful when locating points relative to descriptive information in the primary sources that indicated



battle/skirmish sites at a specific creek, road, mountain or other recognizable landmark. The primary purpose for utilizing these resources was to ensure accuracy in the placement of points.

Once each point was digitized, the attribute fields were populated. For a complete list of fields, see Appendix B. In that extensive research was completed during the project which yielded a wealth of information, additional fields were created beyond those required. The goal was to provide a foundation for later use by utilizing all collected data, rather than only that which was required by SHPO. See Appendix B for these additional fields.

#### DELIVERABLES

- Point shapefile with each battle/skirmish digitized
- Polygon shapefile with battle/skirmish areas digitized
- Project final report
- Bibliography and links to sources

## CHALLENGES

During the project, several issues surfaced that should be noted when reviewing the final product.

#### **Duplicates and Alternate Names**

There were 20 battle/skirmishes provided by the SHPO master list that were listed twice and in a couple of cases, three times under different names. Often, battles/skirmishes were fought in areas in which military officials may have been unfamiliar with the local colloquialisms. This, tethered with the reality that they were fought over several miles, skirmishing along routes for extended stretches, made it difficult to definitively label each conflict with one single name. Where possible, duplicates were removed, and features were given the most common or well-known name as it is referred to in official correspondence. Alternate names were included in a separate field in order to facilitate the search process. One example of this is the Battle of Laurel Hill in Barbour County on July 7-12, 1861, which was also listed as "Belington", the town to which Laurel Hill is adjacent. The battle, in most records is referred to as Laurel Hill, but "Belington" is listed as an alternate name.

In addition to duplicates, some events contain alternate names or spellings across a number of sources. For example, Corrick's Ford in Tucker County was a significant skirmish in 1861, but even *The Official Records of the War of the Rebellion* refer to it as "Carrick's Ford" in some instances. As a result any alternate spellings or names found in the course of the research have been included in the shapefile.

#### Incorrect, Unverifiable or Inconsistent Dates

While each of the events in the SHPO master list contained a date field, in some instances the dates did not match up with the research. For example, the first battle of Harpers Ferry [destruction of the bridge] was in June 1861, but the SHPO master list identified it as being July 4, 1861. All consulted sources identified the correct date as June 1861. In some of these cases, it was difficult to ascertain whether the information from SHPO was incorrect or if it was based on information missed by the researcher. Ultimately, *The Official Records of the War of the Rebellion* were used as the deciding force, and if the battle was listed or mentioned in the records, then it was digitized, but if it could not be found after extensive research, it was flagged and was not included. For a complete list of these events, see Appendix C.

Each digitized point and polygon was created based on locations and descriptions yielded from research in primary and secondary sources. It should be noted that some events were described in great detail in the *The Official Records of the War of the Rebellion* and/or were documented on period atlases and maps, while others were not. In the case that the event was well-documented, the precision with which the points and polygons were located was higher. However, several battle/skirmish sites lacked details and limited maps exist beyond major conflicts which introduces a certain factor of error. In addition, without intimate local knowledge, it is difficult to ascertain the exact location of landmarks detailed in the sources.

## **FUTURE DIRECTIONS**

The GIS map of West Virginia Civil War Conflicts has the potential to be a catalyst for further education, preservation and awareness about a the most significant period in West Virginia history. It is the foundation upon which greater, more in depth projects can be based on. In itself, it is an invaluable resource to both public and private sectors and the data collected for the project can be used in a number of ways, but in particular it is an instrument that can be used for education and preservation.

Increasingly, historical data and maps have been made available via the internet. Using the technological, in this case GIS, to further experience the qualitative (the human side) of cultural resources is becoming increasingly possible and valuable. For example, *The Valley of the Shadow: Two Communities in the Civil War* (www.valley.lib.virginia.edu), a site that relates the story of two Civil War towns, one Union and the other Confederate, in Virginia, engages the user by providing links to primary source materials and creates another dimension to a historical event, taking it beyond the written word.

The GIS map of West Virginia Civil War Conflicts has the potential as a multimedia application. Creating layers on the GIS map application by geo-referencing historical maps and linking other images, archival records, diaries and websites help to integrate primary source data with technology. Through both turning on and off layers and adjusting the opacity, battles and campaigns occurring within the state are given spatial context and become comparable to modern maps and aerial imagery.

In addition, there is an extensive amount of data associated with each shapefile. As a result, additional attribute fields to further enhance the application are suggested. Battles/skirmishes could be designated as Union or Confederate victories. Significant persons could be identified that were associated with the battles/skirmishes. Last, the campaigns with which the battles/skirmishes were a part could be identified on the map, leading to the digitization of troop movement over the course of the war and giving context as to the sequence of events.

West Virginia played a critical role during the Civil War and while the major conflicts like Harpers Ferry, Fayetteville, Princeton, Romney, Charles Town and Martinsburg are remembered and documented, there are many small skirmish sites that were crucial links between the greater battles. The GIS map of West Virginia Civil War Conflicts inventories these sites and has the potential to create resources that will highlight the importance of all conflicts in the state. Most people do not realize that there were over 300 skirmishes and battles in the state. Much of the state was a battlefield, and while every site cannot be preserved or even publicly identified, they are still a critical part of the history of West Virginia. Ultimately, building on the foundation of the data produced in this project increases awareness that educates as well as preserve the state's vast cultural heritage.

## APPENDIX A: Sources and Bibliography

Within the scope of this project, an emphasis was placed on the use of primary source materials whenever possible. In most cases, secondary sources, such as various Civil War History books and websites were first consulted in order to solicit details, which were then used in primary source searches. All digitized sites and areas have an *Official War of the Rebellion Records* reference in that it is considered the definitive source for first hand Civil War data. In addition, each site, when possible has also one or more additional primary and secondary source references whenever possible. To simplify the references in the shapefile, abbreviations were used, followed by reference details (volume, chapter, series, page, etc.).

Bibliographic Source	Source Abbreviation	Example	
Digital Map	DM	DM[ImageNumber] DMlva0098	See Table A-3
Official Records of the War of the Rebellion	RR	RR[Series][Volume][Part][Chapter][Page] RR <b><u>\$</u>1<u>V</u>5<u>P</u>1<u>CH</u>2<u>P</u>345</b>	See Shapefile Report
Book	В	B [Author Last Name][Page] BLEWIS56	See Table A-4
Official Records of the War of the Rebellion Atlas	RRATLAS	RRATLAS[Plate No.] RRATLAS69	See Table A-3

## TABLE A-1: Types of Sources

## TABLE A-2:Web Sources

Bibliographic Sources	Location or Link
West Virginia Online Encyclopedia	www.wvencyclopedia.org
www.americancivilwar.com	www.americancivilwar.com
http://www.americanwars101.com/civilwar. html	http://www.americanwars101.com/civilwar.html
West Virginia Department of Commerce	www.wvcommerce.org
Department of Culture and History Civil War	http://www.wvculture.org/history/civilwar.html
Online Archives	
The National Park Service: The American	http://www.nps.gov/hps/abpp/battles/bystate.htm#wv
Battlefield Protection Program	
Shepherdstown Battlefield Protection	www.battleofshepherdstown.org
Association Inc.	
The Civil War Trust	www.civilwar.org
The Jefferson County Historical Society	http://jeffersonhistoricalwv.org/CWmarkers.html#12
The National Park Service: Harpers Ferry	http://www.nps.gov/hafe/index.htm
National Historical Park	
Historical Marker Database	www.hmdb.org

2010-11 SHPO Project Final Report West Virginia Civil War Conflict Sites and Areas GIS Map

Bibliographic Sources	Location or Link
Civilwartraveler.com	www.civilwartraveler.com
The Battle of Dry Creek	www.battleofdrycreek.com
Battle of Lewisburg	www.battleoflewisburg.org
The Civil War Archive	http://www.civilwararchive.com/
Guyandotte Civil War Days	http://www.guyandottecivilwardays.com/
Civil War Landscapes	www.civilwarlandscapes.org
West Virginia in the Civil War	http://www.civilwar150.wv.gov/Pages/default.aspx
Sesquicentennial	
The Battle of Rich Mountain	www.battleofrichmountain.org

#### TABLE A-3: Map Sources

The Civil War era maps used as primary sources for this project can be found at the Library of Congress Geography and Map Reading Room [http://www.loc.gov/rr/geogmap/guides.html] and as plates appended to *The Official Records of the War of the Rebellion*. The location or link of those maps from the Library of Congress is preceded by the accession number. Given that many of the maps in the Library of Congress collection have unknown authors and/or questionable dates, the reference abbreviation used is "DM" followed by the image number provided by the Library of Congress as a part of their collection.

Title	Abbreviation	Author; Year	Location or Link
Berkeley County, VA: 1861	DMIva00082	Col. J.N. Macomb	http://hdl.loc.gov/loc.ndlpcoop/gl va01.lva00082
Map shewing [sic] vicinity of Harper's Ferry, Virginia, and the upper Potomac River.	DMvhs00045	Sneden, Robert Knox; 1861-65	gvhs01 vhs00045 http://hdl.loc.gov/loc.ndlpcoop/g vhs01.vhs00045
Map shewing [sic] movements of Union and Rebel armies from 30th June to 13th July 1863.	DMvhs00047	Sneden, Robert Knox; 1861-65	gvhs01 vhs00047 http://hdl.loc.gov/loc.ndlpcoop/g vhs01.vhs00047
Map of part of Pocahontas, Randolph, and Webster counties, West Virginia	DMcws00179	1865	g3893p cws00179 http://hdl.loc.gov/loc.gmd/g3893p .cws00179
Sketch of the region west of Charlestown, West Virginia, showing fortifications	DMcwh00184	1864	g3894c cwh00184 http://hdl.loc.gov/loc.gmd/g3894c .cwh00184
Map of Raleigh, Mercer and Summers Counties, West Virginia / prepared by residents of western Virginia for General Loring	DMIva00131	1862	glva01 lva00131 http://hdl.loc.gov/loc.ndlpcoop/gl va01.lva00131
Sketch of western Virginia and eastern West Virginia, between Staunton and Clarksburg	DMcwh00066	1861	g3884s cwh00066 http://hdl.loc.gov/loc.gmd/g3884s .cwh00066
Military reconnaissance in the vicinity of Gauley Bridge, Department of western Virginia, Brig. Genl. W. S. Rosecrans, comd'g., Sept. 11th to Nov. 15, 1861 By W. F. Raynolds, Capt. Top. Engr's., W. Margedant, O. V. [and] W. Angelo Powell, C. Engr. Published by authority of the	DMcw0695000	Raynolds, W. F. (William Franklin), Office of the Chief of Engineers, U.S. Army; 1879	g3894g cw0695000 http://hdl.loc.gov/loc.gmd/g3894g .cw0695000

Title	Abbreviation	Author; Year	Location or Link
Hon. the Secretary of War in			
the office of the Chief of			
Engineers, U.S. Army			
Map of portions of Hampshire	DMcwh00068	1861	g3893h cwh00068
and Mineral Counties, W. Va.,			http://hdl.loc.gov/loc.gmd/g3893h
and Garrett County, Md			.cwh00068
Pencil sketch of the road from	DMcwh00081	Unknown	g3892r cwh00081
Slaven's Cabin to the top of	DIVICWII00081	UTKHOWH	http://hdl.loc.gov/loc.gmd/g3892r
Cheat Mountain in the area of			.cwh00081
the battle of Rich Mountain,			.cw100081
July 11-12, 1861			
Vicinity of Harpers Ferry	DMcwh00192	1864	g3894h cwh00192
vicinity of harpers reny	Divicwilloo152	1004	http://hdl.loc.gov/loc.gmd/g3894h
			.cwh00192
Two sketches on one sheet of	DMcwh00079	1861	g3894h cwh00079
the road from Huntersville, W.			http://hdl.loc.gov/loc.gmd/g3894h
Va. along Knap Creek to the			.cwh00079
Greenbrier River, and from the			
Greenbrier River across Brushy			
Ridge			
Map of Wyoming, Fayette and	DMlva00135	Unknown	glva01 lva00135
Raleigh Counties, West Va. /			http://hdl.loc.gov/loc.ndlpcoop/gl
prepared by residents of			va01.lva00135
1862western Virginia for Gen.			
Loring			
Map of part of	DMcwh00067	1861	g3892r cwh00067
eastern West Virginia,			http://hdl.loc.gov/loc.gmd/g3892r
extending from Romney			.cwh00067
westward to Clarksburg,			
centering on the Rich Mountain			
Battle area			
Map of the battle field of	DMcw694000	1876	g3894m cw0694000
Carnifex Ferry, Gauley			http://hdl.loc.gov/loc.gmd/g3894
River, West Va., Sept. 10th			m.cw0694000
1861. United States forces			
commanded by Brig. Gen. W. S.			
Rosecrans Published by			
authority of the Hon. the			
Secretary of War.			
Map of Greenbrier, Summers,	DMlva00134	1862	glva01 lva00134
Raleigh, Mercer and Monroe			http://hdl.loc.gov/loc.ndlpcoop/gl
Counties, West Va. and Bland,			va01.lva00134
Giles and Craig Counties, Va. /			
prepared by residents for			
General Loring			
Averill's map of western Va	DMcwh00069	1861	g3892r cwh00069
			http://hdl.loc.gov/loc.gmd/g3892r
			.cwh00069

2010-11 SHPO Project Final Report
West Virginia Civil War Conflict Sites and Areas GIS Map

Title	Abbreviation	Author; Year	Location or Link
The attack on Harper's Ferry Va., by Jackson, September 14th and 15th, 1862.	DMvhs00296	Sneden, Robert Knox; 1862-65	gvhs01 vhs00296 http://hdl.loc.gov/loc.ndlpcoop/gv hs01.vhs00296
Plan of the Battle of Carnifex Ferry, West Virginia.	DMvhs00280	Sneden, Robert Knox; 1861-65	gvhs01 vhs00280 http://hdl.loc.gov/loc.ndlpcoop/gv hs01.vhs00280
Map of Jefferson County, Va. photographed for the Bureau of Topographical Engineers Oct., 1862	DMIva00085	1862	glva01 lva00085 http://hdl.loc.gov/loc.ndlpcoop/gl va01.lva00085
Map of a part of Greenbrier County, West Va. / prepared by residents for General Loring	DMlva00137	1862	glva01 lva00137 http://hdl.loc.gov/loc.ndlpcoop/gl va01.lva00137
Hunter's victory at Mount Crawford [October 2, 1864]. Scene of the operations in Shenadoah Valley-capture of Staunton	DMcw0654800	1864	g3882s cw0654800 http://hdl.loc.gov/loc.gmd/g3882s .cw0654800
Map of parts of Highland County, Va., and Pendleton County, W. Va	DMcwh00082	1861	g3883h cwh00082 http://hdl.loc.gov/loc.gmd/g3883h .cwh00082
Map of the battle ground of Greenbrier River	DMcw0697000	McRae, A. T.; 1861	g3892g cw0697000 http://hdl.loc.gov/loc.gmd/g3892g .cw0697000
The attack on and surrender of Harper's Ferry	DMvhs00112	Sneden, Robert Knox; 1862-65	gvhs01 vhs00112 http://hdl.loc.gov/loc.ndlpcoop/gv hs01.vhs00112
Military map showing the topographical features of the country adjacent to Harper's Ferry, Va.; including Maryland, Loudoun, and Bolivar Heights, and portions of South and Short Mountains, with the positions of the defensive works, also the junction of the Potomac & Shenandoah Rivers, and their passage through the Blue Ridge / Surveyed from August 3d to Sept. 20th 1863, under the direction of Capt. N. Michler, Corps of Engrs., U.S. Army	DMcw0699000	Major John E. Weyss ;1863	g3894h cw0699000 http://hdl.loc.gov/loc.gmd/g3894h .cw0699000

2010-11 SHPO Project Final Report
West Virginia Civil War Conflict Sites and Areas GIS Map

Title	Abbreviation	Author; Year	Location or Link
Vicinity of Winchester and Harper's Ferry, Va	DMvhs00271	Sneden, Robert Knox; 1861-65	gvhs01 vhs00271 http://hdl.loc.gov/loc.ndlpcoop/gv hs01.vhs00271
Berkeley County, Virginia / compiled under the direction of Lieut. Col. J.N. Macomb A.D.C. Chf. Topl. Engrs. for the use of Maj. Gen. Geo. B. McClellan, commanding U.S. Army ; improved & extended by D.H. Strother, Lt. Col. 3d. Va. Cavalry, A.A.D.C., 1861	DMIva00083	Macomb, J. N. (John N.); 1861	glva01 lva00083 http://hdl.loc.gov/loc.ndlpcoop/gl va01.lva00083
Atlas To Accompany the Official Records of the Union and Confederate Armies Published Under the Direction of the Hons. Redfield Proctor, Stephen B. Elkins, and Daniel S. Lamont, Secretaries of War by Maj. George B. Davis, US Army, Mr. Leslie J. Perry, Civilian Expert, Mr. Joseph W. Kirkley, Civilian Expert, Compiled by Capt. Calvin D. Cowles, 23d US Infantry Washington: Government Printing Office, 1891-1895. Plates 11, 69, 25, 82, 74	RRATLAS69 RRATLAS11 RRATLAS25 RRATLAS82 RRATLAS74 RRATLAS2		http://ehistory.osu.edu/osu/sources/r ecords/atlas_plates.cfm?set=49

### TABLE A-4: Book Sources

Title	Abbreviation	Author	Publication
The Civil War	BKennedy	Kennedy, Frances H.	Houghton Mifflin, 1998
Battlefield Guide			
Atlas of the Civil	BHyslop	Hyslop, Stephen	National Geographic,
War: A Complete			2009
Guide to the Tactics			
and Terrain of Battle			
(National			
Geographic)			
A History of	BMorton	Morton, Oren F.	Ruebush-Elkins, 1910
Pendleton County			
West Virginia			
History of Hampshire	BMaxwellHamp	Maxwell, Hu	A. Brown Boughner,
County West Virginia			1897
From its Earliest			
Settlement to the			
Present			
History of Harrison	BHaymond	Haymond, Henry	Acme Publishing, 1910
County from the			
Early Days of the			
Northwestern			
Railroad to the			
Present			
History of Tucker	BMaxwellTuck	Maxwell, Hu	Preston Publishing, 1884
County, West			
Virginia From the			
Earliest Explorations and Settlements to			
its Present Time			

## **APPENDIX B: Attribute Fields**

While certain fields were required by the State Historic Preservation Office, other relative attribute fields were included that created a more comprehensive shapefile. Included within the attribute fields is the primary reference in which one can consult for further information about the battle or skirmish.

Attribute Field	Description	Required
FID	Internal field for shapefile	N/A
Shape	Internal field for shapefile. Indicates whether the digitized feature	N/A
	is a point or polygon	
Id	Internal feature Id assigned to each point	N/A
Conflict Site	Name of battle, skirmish, affair, engagement, or expedition for	Y
	which the point has been digitized	
Alt_Name	Any alternate names or spelling for the battle/skirmish. Multiple	Ν
	names are separated by a semicolon.	
City	The primary city to which the point is closest in proximity. This field	Ν
	is somewhat subjective, but will provide for a better search and	
	analysis process.	
County	The primary county in which the digitized point is located	Y
State	In all cases this field is WV	
Month	The primary month in which the battle took place. Date is	Ν
	separated into Month/Day/Year fields to simplify analysis at a later	
	date if desired. It is able to be sorted and searched by month, day	
	or year.	
Day	The primary date or dates for which the battle/skirmish was fought.	N
	Multiple dates are separated by a hyphen.	
Year	The primary year in which the battle took place	Ν
Date	Date of the conflict in MM/DD/YYYY format	Y
Primary Source	The primary source document [see table A-1 for types and	Y
	abbreviations] for the battle/skirmish.	
Conflict Type	Indicates battle, skirmish, affair, engagement or expedition	Ν
Lat_Dec	The decimal latitude for the digitized point.	Y
Long_Dec	The decimal longitude for the digitized point	Y
Private	Indicates whether site is on public or private lands	Ν
Restricted	Indicates whether the information associated with the point is restricted from the general public	N

#### TABLE B-1: Point and Polygon Shapefile Fields

#### **APPENDIX C: Issues for Individual Events**

#### **TABLE C-1: Duplicate Events**

Duplicate Events	Official Name	Alternate Names	Source
Belington (7/7-12/1861) Laurel Hill	Laurel Hill	Belington	RRS1V2P1CHIXP216-218
Blue's Gap (10/4/1862) Hanging Rock	Blue's Gap	Hanging Rock	RRS1V19P2CHXXXIP16- 25
Burlington (4/6/1863) Purgitsville	Burlington	Purgitsville	RRS1V25P1CHXXXVIIP81
Hedgesville (7/18-19/1863) Martinsburg	Martinsburg	Hedgesville	
Moorefield (9/4/1863) Petersburg Gap	Petersburg Gap	Moorefield	RRS1V29P1CHXLIP102
Blue Sulphur Road (12/14/1863) Meadow Bluff	Meadow Bluff	Blue Sulphur Road	RRS1V29P1CHXLIP940
Springfield (6/26/1864) Wire Bridge	Wire Bridge	Springfield	RRS1V37P1CHXLIXP356
Moorefield (8/7/1864) Oldfields	Oldfields	Moorefield	RRS1V43P1CHLVP724- 26
Welch's Springs (8/21/1864) Middleway Flowing Springs	Welch's Springs	Middleway Flowing Springs	RRS1V43P1CHLVP19-22
Springfield; Hanging Rock Pass (10/26//1861)	Springfield	Hanging Rock Pass	RRS1V5P1CHXIVP378- 79
Fayetteville (11/12/1861) Laurel Creek Layral Creek	Laurel Creek	Layrel Creek Fayetteville	RRS1V5P1CHXIVP283
Cross-Lanes	Kesslers Cross Lanes	Cross-lanes	RRS1V5P1CHXIVP118

## TABLE C-2: Events with Multiple Spellings and/or Alternate Names

Events	Official Name	Alternate Names	Source
Corrick's Ford	Corrick's Ford	Carrick's Ford	RRS1V5P1CHXIVP378-
			79
Cross-Lanes	Kesslers Cross Lanes	Cross-lanes	RRS1V5P1CHXIVP118
Fayetteville (11/12/1861)	Laurel Creek	Layrel Creek	RRS1V5P1CHXIVP283
		Fayetteville	
Gauley Bridge (11/1-3/1861	Cotton Hill	Cotton Hill	RRS1V5P1CHXIVP250

## TABLE C-3: Unverified Events

Unverified Events	Date	Reason	
Shanghai	7/16/1863	Insufficient sources to verify exact location of this skirmish	
Flat Top Mountain	7/27/1862	The SHPO list indicated that this skirmish is in Berkeley County, but references and maps identify Flat Top Mountain in Mercer County. Are there two?	
South Fork (Potomac River)	11/9/1862	Insufficient sources to verify exact location of this skirmish	
Clark's Hollow	5/1/1862	Insufficient sources to verify exact location of this skirmish	
West Fork	6/10/1862	Insufficient sources to verify exact location of this skirmish	
Black Creek Bridge	7/27/1864	Unable to find this skirmish in references. Possibly "Back Creek Bridge"?	
Loup Creek	6/26/1863	SHPO list indicates that it is in Braxton County, but Loup Creek or Loop Creek on the same day and referenced in the Official Records and on maps is in Fayette County	
Cheat Mountain	9/11-17-1861	Cheat Mountain consisted of skirmishes at Cheat Mountain Pass, Cheat Summit, Elk Water and Point Mountain** Turnpike, there for each individual event was digitized and a polygon was created that encompassed all features, but a point feature was not solely made for Cheat Mountain.	

Additional Events	Date	Bibliographic Source	
Droop Mountain	11/6/1863	http://www.droopmountainbattlefield.com/;	
		http://www.nps.gov/hps/abpp/battles/wv012.htm	
Damn No. 5 C&O	12/8/1861	RRS1V5P1CHXIVP3	
Canal, Falling Water			
Carnifex Ferry	9/10/1861	http://www.carnifexferrybattlefieldstatepark.com/;	
		http://www.wvculture.org/history/civilwar/carnifex01.html	
		S1V5P1CHXIVP122-65	
Hoke's Run (Falling	12/20	http://www.nps.gov/hps/abpp/battles/wv004.htm	
Water Hainesville)			
Bowman's Place	7/15/1861	S1V2P1CHIXP2	
Righter	6/23/1861	S1V2P1CHIXP2	
Romney	6/13/1861	S1V2P1CHIXP123-124	
Hedgesville; Spring	6/30/1861	S1V2P1CHIXP160-181	
Mills Road; Hoke's			
Run			
Red House;	7/13/1861	S1V2P1CHIXP193	
Barboursville			
Piggot's Mill; Big	8/25/1861	S1V5P1CHXIV	
Run			
Blue's House	8/26/1861	S1V5P1CHXIV	
Wayne County	8/26-27-1861	S1V5P1CHXIV	
Court House			
Blue Creek	9/1/1861	S1V5P1CHXIV	
Boone County Court	9/1/1861	S1V5P1CHXIV	
House			
Hawk's Nest; Turkey	9/2/1861	S1V5P1CHXIVP122-123	
Creek			
Beller's Mill;	9/2/1861	S1V5P1CHXIV	
Harpers Ferry			
Beckley Courthouse	12/28/1861	S1V5P1CHXIV	
Cherry Run	12/25/1861	S1V5P1CHXIV	
Bath	1/3-4/1862	S1V5P1CHXIV	
Dry Fork of Great	1/8/1862	S1V5P1CHXIV	
River			
Mouth of Blue	2/8/1861	S1V5P1CHXIV	
Stone			
Affair at Roane	12/15/1861	S1V5P1CHXIV	
County			
Elkwater	9/12/1861	S1V5P1CHXIVP184	
Grafton	5/25-30/1861	S1V2P1CHIXP51-52	

# TABLE C-5: Incorrect, Unverifiable or Inconsistent Dates

Events	SHPO Date	Corrected Date
Harpers Ferry	7/4/1861	6/1861
Hawk's Nest	8/20/1861	9/4/1861
Gatewood's	12/12/1863	12/14/1863
Laurel Creek	11/14/1861	11/12/1861