American Civil War Battle Data Documentation

Release 5.0.1

Jeffrey B. Arnold

Oct 31, 2017
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Version 5.0.1
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Author Jeffrey B. Arnold <jeffrey.arnold@gmail.com> (http://jrnold.me)
Homepage https://github.com/jrnold/acw_battle_data

A compilation of data on the American Civil War. This is mostly a repackaging of data from other secondary and primary sources, although some original data are included.

keywords: American Civil War, battle, war, casualties, commanders

Downloads
• acw_battle_data-5.0.1.tar.gz
• acw_battle_data-5.0.1.zip
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Other Data Sources

There are other data sources on the American Civil War that are not included in this data collection. These include:

- The Nafzier Orders of Battle collection. A collection of 7895 orders of battles from 1600-1945, that includes 812 orders of battle from the American Civil War. These are available from the US Army Combined Arms Research Library.

- American Civil War Research Database. This contains soldier’s records, regimental rosters and chronicles, and officer profiles. http://www.civilwardata.com/


CDB90 to CWSAC battle links

- **name**: cdb90_to_cwsac
- **path**: cdb90_to_cwsac.json
- **format**: json

Each of the CDB90 battles maps onto only one CWSAC battle.

Sources: [jrnold], [cdb90], [CWSAC1997]
CHAPTER 4

Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

name  aad_battles
path  aad_battles.csv
format  csv

gBattle-level data of the battles in the original reports of the Civil War Sites Advisory Commission compiled during 1990-1993.

These reports were deposited with the National Archives Access to Archival Databases.

Each observation in the data is a battle. The battles are those identified by the CWSAC as the principal battles of the American Civil War, and later used in the official CWSAC Report and its updates, and the CWSS database.

The original documentation reads:

The Civil War Sites Advisory Commission created this database to support its congressional mandate to identify Civil War battlefields, determine their historic significance, assess short- and long-term threats to their integrity, and propose new ideas about their preservation and interpretation. The Commission intended the recommendations to be used as the basis for legislative proposals in the area of battlefield preservation.

The Civil War Sites Advisory Commission data files contain information relating to battlefields of the American Civil War, 1861-1865. Four data files compose this series: Events, Counties, Campaign, and Theater files. The Events file is the primary data file. Of 10,500 armed conflicts in the military history of the Civil War, the file contains information on 384 conflicts that the Commission identified as the principal battles. Each record identifies the following information: state and county or counties of the historic site, the type of battle or event that occurred there, the theater of operations and the campaign to which the engagement relates, the dates of the battle or event, the current ownership of the site, and the assessment of three subject area experts of the military significance, physical integrity, historic preservation status, and interpretive potential of the site or event, and whether it should be a priority for protection of cultural property. The records of the Counties file identify the county location(s) of each battlefield and are linked to the Events file by a common battlefield reference number. The records of the Campaign file include a code for each of 116 campaigns and provide its name, dates, and a ranking of the military importance of the campaign’s battle events. The records of the Campaign file are linked by the campaign code to the
records in the Events file. The Theater file records identify five designated Civil War theaters of operation and are linked to the Events file by a theater code.

The records in this file potentially identify the following information: state and county or counties of the historic site, the type of battle or event that occurred there, the theater of operations and the campaign to which the engagement relates, the dates of the battle or event, the current ownership of the site, and the assessment of three subject area experts of the military significance, physical integrity, historic preservation status, and interpretive potential of the site or event, and whether it should be a priority for protection of cultural property.

Sources: [CWSAC_AAD]

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<tr>
<td>interpretive_group_behavior</td>
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<td>Interpretive Potential: Exceptional Group Behavior</td>
</tr>
<tr>
<td>interpretive_joint_ops</td>
<td>boolean</td>
<td>Interpretive Potential: Illustrates Joint Operations (Army, Navy)</td>
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<tr>
<td>interpretive_coop_armies</td>
<td>boolean</td>
<td>Interpretive Potential: Illustrates Cooperation of Separate Military Departments or Armies</td>
</tr>
<tr>
<td>interpretive_naval</td>
<td>boolean</td>
<td>Interpretive Potential: Naval Operations</td>
</tr>
<tr>
<td>military_jim</td>
<td>string</td>
<td>Military Importance (James McPherson)</td>
</tr>
<tr>
<td>military_ed</td>
<td>string</td>
<td>Military Importance (Edwin Bearss)</td>
</tr>
<tr>
<td>military_bill</td>
<td>string</td>
<td>Military Importance (william_cooper)</td>
</tr>
<tr>
<td>protected_acres</td>
<td>number</td>
<td>Protected land area (acres)</td>
</tr>
</tbody>
</table>

Continued on next page
Table 4.1 – continued from previous page

<table>
<thead>
<tr>
<th>protected_percent</th>
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<th>Protected (percent of land area)</th>
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</thead>
<tbody>
<tr>
<td>county</td>
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</tr>
<tr>
<td>land_value</td>
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<td>Land value</td>
</tr>
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<td>priority1</td>
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<td>priority1</td>
</tr>
<tr>
<td>url</td>
<td>string</td>
<td>url</td>
</tr>
</tbody>
</table>

**reference_number**

- **title** Reference Number
- **type** string
- **format** default

The reference number assigned to the battle site/event. The first two letters are the abbreviation of the state in which the battle site/event is located. The number reflects the order in which the battle site/events in the state were assigned a reference number.

**event**

- **title** event
- **type** string
- **format** default

**type**

- **title** Type
- **type** string
- **format** default


**start_date**

- **title** Start date
- **type** date
- **format** default

Beginning day of the event.

**end_date**

- **title** End date
- **type** date
- **format** default

End day of the event.
**theater**

- **title**  Theater
- **type**  string
- **format**  default

The name of the theater. 1 Main Eastern Theater of operation. 2 Lower Seaboard Theater of Operation. 3 Main Western Theater of Operations & the Gulf Approach (1861-1863). 4 Trans-Mississippi Theater of Operations 5 Pacific Coast Theater


**campaign**

- **title**  campaign
- **type**  string
- **format**  default

**threats**

- **title**  threats
- **type**  number
- **format**  default

The degree of anticipated threats to the battle sites’ integrity over the next 10 years. The Commission assigned the degree of threat based on short- and long-term threats identified by the field investigator on the battle site survey form.

**ownership_federal**

- **title**  Ownership (Federal)
- **type**  boolean
- **format**  default

The kind(s) of known ownership of the battle site. The Commission relied on the ownership information provided on the survey forms and additional data collected by staff members. The field surveyors and the Commission staff did not consult official ownership records, such as County tax records or maps. Many of the battle sites probably have more kinds of ownership than indicated in the Commission’s database.

**ownership_local**

- **title**  Ownership (local government)
ownership_private
  title Ownership (private)
  type boolean
  format default

ownership_state
  title Ownership (state government)
  type boolean
  format default

ownership_unknown
  title Ownership (unknown)
  type boolean
  format default

park
  title park
  type boolean
  format default

Park means any size or kind (historical, recreations, natural, etc.) of federal, state, local, or private park. A park presence does not mean that the battle is interpreted or even that the battle site is protected.

integrity
  title integrity
  type string
  format default

Integrity is the measure of the battle site’s condition. A battle site with fair integrity is largely intact with some changes in primary geographical and topographical configuration and mass and scale of the buildings. A battle site with good integrity is essentially unchanged from the historic period with respect to terrain, land use, road network, and mass and scale of buildings. A battle site with poor integrity is significantly altered in terms of its primary geographical and topographical configuration and mass and scale of the buildings. Road construction and changes in land use are usually evident at sites with poor integrity. Sites with poor integrity sometimes retain core parcels (50-200 acres) intact within the generally fragmented landscape. A local site has changed beyond recognition, meaning that a local resident of the time returning to the site today presumably would not recognize his surroundings. Lost battlefields may retain
small (1-50 acres) parcels suitable for commemoration, however, the ability to interpret the battle on the landscape has been lost.

**military**

- **title**: military
- **type**: string
- **format**: default
- **constraints**
  - `enum` ['A', 'B', 'C', 'D']

The Military Importance or Military Class; Military Importance = Military Class. The Commission ranked each battle (and its associated battle site) within the framework of its campaign and the war. Decisive: A general engagement involving field armies in which a commander achieved a vital strategic objective. Such a result might include an indisputable victory on the field or be limited to the success or termination of a campaign offensive. Decisive battles had a direct, observable impact on the direction, duration, conduct, or outcome of the war. Formative: An engagement involving divisions or detachments of the field armies in which a commander accomplished a limited campaign objective of reconnaissance, disruption, defense, or occupation. Formative battles had an observable influence on the direction, duration, or conduct of the campaign. Limited: An engagement, typically involving detachments of the field armies, in which a commander achieved a limited tactical objective of reconnaissance, defense, or occupation. Limited battles maintained contact between the combatants without observable influence on the direction of the campaign. Major: An engagement of magnitude involving field armies or divisions of the armies in which a commander achieved an important strategic objective within the context of an ongoing campaign offensive. Major battles had a direct, observable impact on the direction, duration, conduct, or outcome of the campaign.

**interpretive_political**

- **title**: Interpretive Potential: effect upon international diplomacy
- **type**: boolean
- **format**: default

**interpretive_commander_loss**

- **title**: Interpretive Potential: Loss of significant commander (Wounding, Death, Relieved of Command)
- **type**: boolean
- **format**: default

**interpretive_casualties**

- **title**: Interpretive Potential: Unusually High Casualties
- **type**: boolean
- **format**: default
interpretive_tactics_strategy

  title  Interpretive Potential: Illustrates Important Lessons in Military Tactics and Strategy
  type   boolean
  format default

interpretive_public_mind

  title  Interpretive Potential: Unusual Importance in the Public Mind and Imagination
  type   boolean
  format default

interpretive_combat_arm

  title  Interpretive Potential: Significant Participation of Cavalry, Artillery, or Other Single Combat Arm
  type   boolean
  format default

interpretive_military_firsts

  title  Interpretive Potential: Military Firsts
  type   boolean
  format default

interpretive_minority_troops

  title  Interpretive Potential: Participation of Significant Numbers of Minority Troops
  type   boolean
  format default

interpretive_economic

  title  Interpretive Potential: Significant Economic Consequences
  type   boolean
  format default

interpretive_archaeological

  title  Interpretive Potential: High Archaeological Potential
  type   boolean
  format default
interprete_logistics

    title  Interpretive Potential: Unusually Significant Logistics or Supply Feat
    type   boolean
    format default

interprete_individual_bravery

    title  Interpretive Potential: Exception Individual Initiative in Bravery or Command
    type   boolean
    format default

interprete_group_behavior

    title  Interpretive Potential: Exceptional Group Behavior
    type   boolean
    format default

interprete_joint_ops

    title  Interpretive Potential: Illustrates Joint Operations (Army, Navy)
    type   boolean
    format default

interprete_coop_armies

    title  Interpretive Potential: Illustrates Cooperation of Separate Military Departments or Armies
    type   boolean
    format default

interprete_naval

    title  Interpretive Potential: Naval Operations
    type   boolean
    format default

military_jim

    title  Military Importance (James McPherson)
    type   string
    format default
constraints

   enum ['A', 'B', 'C', 'D']

Dr. James M. McPherson. The letter in this field is Dr. McPherson’s initial opinion regarding the military importance of the event. (Refer to MILITARY above.) An entry was made in this field only when Dr. McPherson disagreed with the first military importance value assigned to the event. Differences of opinion about the military importance of specific battle events were resolved at an October 23, 1992 meeting.

**military_ed**

   title Military Importance (Edwin Bearss)
   type string
   format default
   constraints

   enum ['A', 'B', 'C', 'D']

Dr. Edwin C. Bearss. The letter in this field is Mr. Bearss’ initial opinion regarding the military importance of the event. (Refer to MILITARY above.) An entry was made in this field only when Mr. Bearss disagreed with the first military importance value assigned to the event. Differences of opinion about the military importance of specific battle events were resolved at an October 23, 1992 meeting.

**military_bill**

   title Military Importance (william_cooper)
   type string
   format default
   constraints

   enum ['A', 'B', 'C', 'D']

Dr. William J. Cooper, Jr. The letter in this field is Dr. Cooper’s initial opinion regarding the military importance of the event. (Refer to MILITARY above.) An entry was made in this field only when Dr. Cooper disagreed with the first military importance value assigned to the event. Differences of opinion about the military importance of specific battle events were resolved at an October 23, 1992 meeting.

**protected_acres**

   title Protected land area (acres)
   type number
   format default

The number of acres of the battle site that are protected; for example, by easement or park status. This field is ill-defined and incomplete. The data may be inaccurate. The Commission did not use the data in this field.
**protected_percent**

- **title**: Protected (percent of land area)
- **type**: number
- **format**: default

Percentage of the land area of the battlefield that is protected. This field is ill-defined and incomplete. The data may be inaccurate. The Commission did not use the data in this field.

**county**

- **title**: County
- **type**: string
- **format**: default

The county, or counties, in which the battle site is located. In Virginia, incorporated cities are not part of their surrounding jurisdiction. Note: The Commission used its Counties database (counties.dbf) for county information rather than this entry in the events database.

**land_value**

- **title**: Land value
- **type**: string
- **format**: default

The assessed land value of the battle site. This field is incomplete and the data may be inaccurate. The Commission did not use the data in this field.

**priority1**

- **title**: priority1
- **type**: boolean
- **format**: default

“1” = The battle site/event is one of the Commission’s Priority One battlefields. “0” = The battle site/event is not one of the Commission’s Priority One battlefields. This field was never completed.

**url**

- **title**: url
- **type**: string
- **format**: url

URL to the record on aad.archives.gov.
CHAPTER 5

Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

name  aad_events
path  aad_events.json
format  json

Sources:
Miscellaneous battle data

name battlemisc
path battlemisc.csv
format csv

Miscellaneous battle data.

Miscellaneous battle-level data coded for this dataset. The battles are the CWSAC battles (see CWSAC Report battle data: battles). The extra data includes:

- surrenders
- attackers

Sources: [jrnold]

Schema

<table>
<thead>
<tr>
<th>cwsac_id</th>
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<th>CWSAC Id.</th>
</tr>
</thead>
<tbody>
<tr>
<td>battle_name</td>
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<td>Battle name</td>
</tr>
<tr>
<td>attacker</td>
<td>string</td>
<td>Attacker</td>
</tr>
<tr>
<td>surrender</td>
<td>string</td>
<td>Surrender</td>
</tr>
<tr>
<td>siege</td>
<td>boolean</td>
<td>siege</td>
</tr>
<tr>
<td>naval</td>
<td>string</td>
<td>naval</td>
</tr>
</tbody>
</table>

cwsac_id

  title CWSAC Id.
  type string
  format default


constraints

    pattern  [A-Z][0-9][A-Z]?

battle_name

title  Battle name

type  string

format  default

attacker

title  Attacker

type  string

format  default

constraints

    enum  ['US', 'Confederate']

Which side was the attacker in the battle? This was coded as the side which first initiated combat in that battle. It is not a measure of which side was attacking in the campaign. This was coded from the descriptions in the CWSAC and Wikipedia.

surrender

title  Surrender

type  string

format  default

constraints

    enum  ['Union complete', 'Union partial', 'None', 'Confederate partial', 'Confederate complete']

Did one of the sides surrender?

siege

title  siege

type  boolean

format  default

naval

title  naval

type  string

format  default
constraints

enum ['Yes', 'No', 'Partial']

Was this a naval battles? “Yes” if at least one of the side’s forces consisted of only ships, e.g. ship vs. ship battles or ship vs. land fortifications. If “Partial”, then land forces were involved on both sides, but ships were part of at least one side’s forces. If “No”, then no naval forces were involved.
Bodart (1908) battles of the American Civil War

name  bodart1908_battles
path  bodart1908_battles.csv
format  csv

Bodart (1908) *Militär-historisches kreigs-lexikon* data on battles of the American Civil War

These data are from Bodart (1908) *Militär-Historisches Kreigs-Lexicon (1618-1905)*. The *Kreigs-Lexicon* includes over 600 battles from European wars 1618–1905.

The most important Engagements, meetings, battles, sieges, assaults, capitulations all wars, with the exception of the colonial wars in periods of 1618-1905.

This data only includes the 50 battles that are part of the American Civil War (pp. 522-542, ). In Bodart, the war is called Nordamerikanischer Bürgerkrieg, the Confederacy is referred to as Konföderierten (Südstaaten), and the US as Unierten (Nordstaaten).

His criteria for including battles in his list is that they were either

- of great consequences, e.g. termination of a campaign, lifting a siege, taking a capital city or surrender
- or involved great number of losses
  - land battle: Losses of greater than 2,000 men on both sides
  - sea battle: Because sea battles had fewer men, some with losses of less than 1,000 were included.

Bodart determines the victor of the battle as follows

1. the side that claimed the battlefield or achieved purpose of fighting
2. else, the side which had a lower percentage of casualties

His description of the data (p. 45-47, Google Books translation from German to English):

On admission, the statistically treated battles meeting, sieges, etc., the author has been guided by the principle that only those battles were included, who have played in the history of individual states a greater role.
There were so taken up such fights, which attracted great consequences for themselves (such as termination of the campaign, lifting a siege, taking a capital city, surrender, and so forth), or without regard to such consequences such battles, which, either by the Assembly of a large number of combatants on the battlefield or as result of their great losses appeared worthy of inclusion.

As a basis for the great loss by the host position to be taken to the author, the total loss figure of 2,000 men served together on both sides.

An exception was held regarding the naval battles and Seetreffen, even those which were taken up by what were only 1,000 men or less of total loss and for the reason, because the author wanted the neglected, fighting to give the lake one of its important place.

In the naval battles of modern wars has been the tonnage of the ships, the number of indicated horse-power of the machines, the size, type and number of guns, and the Bemannungsstand account. With the loss of information in addition to human losses appear the ship’s gun and loss account.

The place of the victor in the comparisons is always on the left side, the search for the right of the vanquished. In so-called indecisive battles that party was considered a winner, which claimed the battlefield or the purpose sought by the fighting reached, even if their material loss was greater. If the above factors were not available, the party was given the victory, which scored a minority of the same success as her opponent with a larger Struiterzahl. Since the loss data provide absolute figures for the size of the sustained loss of any scale for the comparative assessment was performed in all loss of Perzentsatz determined the same by the G esam t-Streiterzahl 1, which allows an immediate comparison of the enemy’s losses to their relative amount is.

Where it was feasible, the loss of trophies and war material were attached.

The strength information those forces were always given, which were disposable for battle, and therefore in an emergency could still be used, and not merely those which really came into the fight. The author went here based on the consideration that even the presence of a number of troops at one of the battle-field not too distant places affect the enemy in his dispositions, and could act affecting the course of events, therefore, those troops when they where also fight and the decision took no part, were included.

The next to each conflict in the parentheses point to emphasize its meaning at first glance in the manner that the paragraph in question “Lio category called, in which ranks of battle.

For the rank classification or categories of fighting, the total amount of losses (bloody and bloodless) both opponents were decisive for the author, taken together, u. ZW. Range from the

Fight on land in the

• 1st category, those in which the total casualties reached at least 30,000
• 2nd category ... 20,000
• 3rd category ... 10,000
• 4th category ... 5,000
• 5th category ... 3,000
• 6th category ... 1,000

In the battles at sea in the

• 1st category, those in which the total casualties reached at least 10,000
• 2nd category ... 5,000
• 3rd category ... 3,000
• 4th category ... 2,000
• 5th category ... 1,000
• 6th category ... 500

Left the battles which the first three categories innate (about 250 in number), and which represent the greatest fights of modern times and the most recent time, was already at the point where they reach the treatise, a bouncing into your eyes preferably sooner so that readers will point out at once that he has to do here with a meaningful fight.

The strength and casualty figures have been rounded up by the author after u. Btw. In such a way that a number of less than 50 men on 50, such a of less than 100 men were rounded down to 100.

And on page 601:

With regard to the rank classification of fighting in six categories, is with regard to the land battles, and -meeting -Gefechte, and referenced with respect to the sea-battles, and -meeting -Gefechte to the “Explanatory Preface” in the on page 47 apparent explanation.

With regard to the rank classification of fights included in the column “attack, siege, storming, surrender fortified places” is expressly noted that not as the sum total of the mutual losses as a basis of classification used in the battles, meetings and engagements in these battles, but the strength of the occupation of the fortified place in question, so that a besieged fortress with a garrison of more than 30,000 men under the struggles 1st order, one with 20,000 to 30,000 men in the 2nd order, etc., as set out on page 47 included, has been. With regard to the “capitulations in the open field,” so the overall strength of the resultant army served as the basis for the ranking classification, again after the numeral regular gradation of the six categories, as discussed on page 47 concerning the fighting on land.

Locations of data on the American Civil War

• The costliest battles of the war leading states since 1618: p. 843
• The largest victories and commanders. p. 774
• Generals killed in battle. p. 911-

Translations of the German terms used in Bodart

• Streitkräfte = “armed forces” - “hiervon im Kampfe” = Forces engaged in combat (“thereof in conflict”) - “infanterie” = infantry - “kavallerie” = cavalry - “artillerie” = artillery - “Gesamt - Stärke” = “Total - Strength” - “geschütze”, “gesch.” = guns
• “verluste” = casualties - “tot” = killed - “verwundet”, “verw.” = wounded - “blutige einbusse” = killed or wounded (“bloody casualties”) - “tot und verwundet”, “tot u. verw.” = killed or wounded - “vermixbt, gefangen” = missing, captured - “gefangen”, “gefg.” = captured - “gesamt - verslust” = total casualties (killed, wounded, and missing or captured) - “offz.” = “Officers” - “Gen.” = “Generals”
• “Gefallene Generale” = generals killed in action
• “Verl. an Trophäen” = “losses of materials”
  – “Kan.”, “Kanonen” = “cannon”
  – “Fahnen” = “flag”
  – “Wagen” = “wagon”
  – “Geschütze”, “Gesch.” = “artillery”
  – “Munitionswagen” = “gun wagons”
  – “Gewehre” = “guns”
• “kanonen”, “kan.” = cannon
• “fahnen” = flags
• “geschütze”, “gesch.” = guns
Bodart classifies battles into the following categories:

- Belagerung: siege
- Einnahme: taking
- Gefecht: battle
- Treffen: meeting, encounter
- Schlacht: battle
- Kapitulation: surrender
- Erstürmung: storming
- Einschliessung: confinement
- Überfall: raid
- Vergebliche belagerung: unsuccessful siege
- Seeschlacht: naval battle

These battle types are placed into 4 larger categories (see pp 602-607) with subcategories.

- “Land-schlachten, -Treffen, -Gefechte” (“land battles”)
- “See-Schlachten, -Treffen, -Gefechte” (“sea battles”)
- “Angriff, Erstürmung, Belagerung, Kapitulation befestigter Plätze” (“Attack, assault, siege, capitulation fortified places”)
- “Kapitulation auf freiem Felde” (“surrenders (not after a siege)”)  

There is also a category entitled “Summe der” (total of the ...)

- Kämpfe zu Lande (“battles on land”)
- Kämpfe zur See (“battles at sea”)
- Belagerungen (“siege”)
- Kapitulation (“surrender”)

Final total category “Gesamtsumme der Kämpfe” (“total fights”)

- “die bedeutendsten niederlagen der Foo gegen die Bar” : “the most significant defeats of Foo against Bar”
- “die größten Siege der Foo gegen die Bar” : “the biggest victories of Foo against Bar”

Corrections

- Bodart listed the date of the Battle of Ringgold as 1863-11-13 to 1863-11-25; I changed this to 1863-11-23 to 1863-11-25, the correct dates for this battle.

Several “battles” in Bodart are campaigns. For example, Petersburg spans June 9, 1864 (First Battle of Petersburg) to April 3, 1865 (capture of Petersburg after the Third Battle of Petersburg). This includes parts of the Richmond-Petersburg Campaign and Appomattox Campaign.

While most entries are presented in an almost tabular form, some entries only have a paragraph of text. An example of this is from p. 528, Schlacht bei Perryville,

Sieg der Konföderierten (68,000 M.) unter Gen. Bragg über die Unierten (54,000 M.) unter GM. Buell.

The Google Books translation of this passage is

Victory for the Confederates (68,000 meters) under General. Bragg on the Uniate (54,000 meters) in GM. Buell.”
The relevant data that I extract from this text is,

- Confederates are the victor
- Confederate force - gesamt-starke = 68000 - commander = “Gen. Bragg”
- Union force - gesamt-starke = 54000 - commander “GM. Buell”

The sources cited by Bodart are (p. 29):

- Badeau “Military History of Ulysses S. Grant”
- Century Company “Battles and leaders of the civil war”
- Lee-Childe “Le general Lee, sa vie er ses campagnes”
- Official Records of the Union and Confederate armies
- Paris, comte de “Histoire de la guerre civile en Amerique”

Notable quirks of this dataset:

- Seven Days Battles are combined into a single battle: Chickahominy (June 25-July 1, 1862)
- There is a single battle for the Siege of Petersburg (June 9, 1864 to April 3, 1865)
- There is a single battle for the Siege of Charleston (April 1, 1863 to February 18, 1865)
- It includes a battle for the surrender Joseph E. Johnston at Durham’s Station in North Carolina.

Sources: [Bodart1908]

### Schema

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<thead>
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<th>battle_id</th>
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<th>Battle number</th>
</tr>
</thead>
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<td>Battle name</td>
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</tr>
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<td>Size</td>
</tr>
<tr>
<td>page</td>
<td>integer</td>
<td>page</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** Battle number
- **type** integer
- **format** default
- **constraints**
  - **minimum** 1
**battle_name**

*title*  Battle name  
*type*  string  
*format*  default  

Name of the battle

**other_names**

*title*  Other name(s)  
*type*  string  
*format*  default  

Alternate names for the battle

**start_date**

*title*  Start Date  
*type*  date  
*format*  default  

**end_date**

*title*  End Date  
*type*  date  
*format*  default  

**location**

*title*  Location  
*type*  string  
*format*  default  

Location of the battle (in German)

**state**

*title*  State  
*type*  string  
*format*  default  
*constraints*  

*pattern*  [A-Z][2]  

State in which the battle occurred. Two-letter abbreviation.
category_schlacht

title Battle
type boolean
format default
Was the battle a major battle ("Schlacht")?

category_treffen

title Meeting
type boolean
format default
Was the battle a meeting or encounter ("Treffen")?

category_belagerung

title Siege
type boolean
format default
Was the battle a siege ("Belagerung")?

category_kapitulation

title Surrender
type boolean
format default
Was the battle a surrender ("Kapitulation")?

category_einnahme

title Capture
type integer
format default
Was the battle a capture ("Einnahme")?

category_size

title Size
type integer
format default

7.1. Schema
minimum 1
maximum 6

Category of the battle based on total casualties. For land battles the categories area 1. > 30,000 2. > 20,000 3. > 10,000 4. > 5,000 5. > 3,000 6. > 1,000

page

title page
type integer
format default

Page number in Bodart (1908)
Bodart (1908) data on the commanders of battles of the American Civil War

These data are from Bodart (1908), “Militär-Historisches Kreigs-Lexicon (1618-1905)”. See Bodart (1908) battles of the American Civil War for more information on this source.

This table contains the commanders of each force in each battle in Bodart.

Sources: [Bodart1908]

**Schema**

<table>
<thead>
<tr>
<th>field</th>
<th>type</th>
<th>description</th>
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</thead>
<tbody>
<tr>
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<td>Battle Id.</td>
</tr>
<tr>
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<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>full_name</td>
<td>string</td>
<td>Name</td>
</tr>
<tr>
<td>last_name</td>
<td>string</td>
<td>Last Name</td>
</tr>
<tr>
<td>first_name</td>
<td>string</td>
<td>First Name</td>
</tr>
<tr>
<td>middle_name</td>
<td>string</td>
<td>Middle Name</td>
</tr>
<tr>
<td>suffix</td>
<td>number</td>
<td>Suffix</td>
</tr>
<tr>
<td>rank</td>
<td>string</td>
<td>Rank</td>
</tr>
<tr>
<td>dbpedia</td>
<td>string</td>
<td>Dbpedia</td>
</tr>
</tbody>
</table>

**battle_id**

- **title**: Battle Id.
- **type**: string
format default

**belligerent**

title belligerent
type string
format default

**full_name**

title Name
type string
format default

Name of the commander

**last_name**

title Last Name
type string
format default

**first_name**

title First Name
type string
format default

**middle_name**

title Middle Name
type string
format default

**suffix**

title Suffix
type number
format default
rank

title Rank
type string
format default

rank of the commander

dbpedia

title Dbpedia
type string
format url
dbpedia.org URI of the commander

Sources: [Bodart1908]
Bodart (1908) battle data: force strengths and casualties

---

**name**  bodart1908_forces

**path**  bodart1908_forces.csv

**format**  csv

Bodart (1908) data on force sizes and casualties in battles of the American Civil War

These data are from Bodart (1908), “Militär-Historisches Kreigs-Lexicon (1618-1905)”. See Bodart (1908) battles of the American Civil War for more information on this source.

This table contains force sizes and casualties for each combatant in each battle.

I have found that the strength values in Bodart tend to be higher in other sources. He seems to use the total size of the unit involved in that theater or operations, without considering which parts of that unit participated in a given battle.

Sources: [Bodart1908]

**Schema**

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Battle id</td>
</tr>
<tr>
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<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>strength</td>
<td>integer</td>
<td>Strength</td>
</tr>
<tr>
<td>strength_engaged</td>
<td>integer</td>
<td>Strength Engaged</td>
</tr>
<tr>
<td>infantry</td>
<td>integer</td>
<td>Infantry</td>
</tr>
<tr>
<td>cavalry</td>
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<td>cavalry</td>
</tr>
<tr>
<td>artillery</td>
<td>integer</td>
<td>Artillery</td>
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<td>guns</td>
<td>integer</td>
<td>guns</td>
</tr>
<tr>
<td>killed</td>
<td>integer</td>
<td>Killed</td>
</tr>
<tr>
<td>killed_percent</td>
<td>number</td>
<td>Killed (percent)</td>
</tr>
<tr>
<td>killed_generals</td>
<td>integer</td>
<td>killed_generals</td>
</tr>
<tr>
<td>killed_officers</td>
<td>integer</td>
<td>killed_officers</td>
</tr>
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</table>

Continued on next page
### Table 9.1 – continued from previous page

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<tr>
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</thead>
<tbody>
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<td>integer</td>
<td>Killed wounded</td>
</tr>
<tr>
<td>killed_wounded_percent</td>
<td>number</td>
<td>Killed Wounded (percent)</td>
</tr>
<tr>
<td>killed_wounded_generals</td>
<td>integer</td>
<td>Generals killed or wounded</td>
</tr>
<tr>
<td>killed_wounded_officers</td>
<td>integer</td>
<td>Officers killed or wounded</td>
</tr>
<tr>
<td>wounded</td>
<td>integer</td>
<td>Wounded</td>
</tr>
<tr>
<td>wounded_percent</td>
<td>number</td>
<td>Wounded (percent)</td>
</tr>
<tr>
<td>wounded_generals</td>
<td>integer</td>
<td>Generals wounded</td>
</tr>
<tr>
<td>wounded_officers</td>
<td>integer</td>
<td>Officers wounded</td>
</tr>
<tr>
<td>captured</td>
<td>integer</td>
<td>Captured</td>
</tr>
<tr>
<td>captured_generals</td>
<td>integer</td>
<td>Generals captured</td>
</tr>
<tr>
<td>captured_officers</td>
<td>integer</td>
<td>Officers captured</td>
</tr>
<tr>
<td>missing</td>
<td>integer</td>
<td>Missing</td>
</tr>
<tr>
<td>missing_percent</td>
<td>number</td>
<td>Missing (percent)</td>
</tr>
<tr>
<td>missing_generals</td>
<td>integer</td>
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<td>number</td>
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<tr>
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<td>Casualties (officers)</td>
</tr>
<tr>
<td>casualties_generals</td>
<td>integer</td>
<td>Casualties (generals)</td>
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<tr>
<td>losses_guns</td>
<td>integer</td>
<td>Losses of guns</td>
</tr>
<tr>
<td>losses_caissons</td>
<td>integer</td>
<td>Losses of caissons</td>
</tr>
<tr>
<td>losses_cannon</td>
<td>integer</td>
<td>Losses of cannons</td>
</tr>
<tr>
<td>losses_canons</td>
<td>number</td>
<td>losses_canons</td>
</tr>
<tr>
<td>losses_flags</td>
<td>integer</td>
<td>Losses of flags</td>
</tr>
<tr>
<td>losses_munition_wagons</td>
<td>integer</td>
<td>Losses of munition wagons</td>
</tr>
<tr>
<td>losses_wagons</td>
<td>integer</td>
<td>Losses of wagons</td>
</tr>
<tr>
<td>note</td>
<td>string</td>
<td>Note</td>
</tr>
</tbody>
</table>

#### battle_id

- **title**: Battle id
- **type**: string
- **format**: default

#### belligerent

- **title**: belligerent
- **type**: string
- **format**: default

#### strength

- **title**: Strength
- **type**: integer
- **format**: default

Total personnel
**strength_engaged**

- **title**: Strength Engaged
- **type**: integer
- **format**: default

Personnel engaged in combat

**infantry**

- **title**: Infantry
- **type**: integer
- **format**: default

Number of infantry

**cavalry**

- **title**: cavalry
- **type**: integer
- **format**: default

Number of cavalry

**artillery**

- **title**: Artillery
- **type**: integer
- **format**: default

Number of artillery personnel

**guns**

- **title**: guns
- **type**: integer
- **format**: default

Number of guns (artillery pieces)

**killed**

- **title**: Killed
- **type**: integer
- **format**: default
**killed_percent**

- **title**: Killed (percent)
- **type**: number
- **format**: default
- **constraints**
  - minimum: 0
  - maximum: 1

**killed_generals**

- **title**: killed_generals
- **type**: integer
- **format**: default

**killed_officers**

- **title**: killed_officers
- **type**: integer
- **format**: default

**killed_wounded**

- **title**: killed_wounded
- **type**: integer
- **format**: default

**killed_wounded_percent**

- **title**: Killed Wounded (percent)
- **type**: number
- **format**: default
- **constraints**
  - minimum: 0
  - maximum: 1

**killed_wounded_generals**

- **title**: Generals killed or wounded
- **type**: integer
- **format**: default
killed_wounded_officers

title  Officers killed or wounded
type   integer
format default

wounded

title  wounded
type   integer
format default

wounded_percent

title  Wounded (percent)
type   number
format default
constraints
  minimum 0
  maximum 1

wounded_generals

title  Generals wounded
type   integer
format default

wounded_officers

title  Officers wounded
type   integer
format default

captured

title  captured
type   integer
format default
captured_generals

title Generals captured
type integer
format default

captured_officers

title Officers captured
type integer
format default

missing

title missing
type integer
format default

missing_percent

title Missing (percent)
type number
format default
constraints
  minimum 0
  maximum 1

missing_generals

title Generals missing
type integer
format default

missing_officers

title Officers missing
type integer
format default
casualties

title Casualties
type integer
format default

Total casualties (killed, wounded, and missing or captured)

casualties_percent

title Casualties (percent)
type number
format default
constraints
    minimum 0
    maximum 1

casualties_officers

title Casualties (officers)
type integer
format default

casualties_generals

title Casualties (generals)
type integer
format default

losses_guns

title Losses of guns
type integer
format default

losses_caissons

title Losses of caissons
type integer
format default
losses_cannon

    title  Losses of cannons
    type   integer
    format default

losses_canons

    title  losses_canons
    type   number
    format default

losses_flags

    title  Losses of flags
    type   integer
    format default

losses_munition_wagons

    title  Losses of munition wagons
    type   integer
    format default

losses_wagons

    title  Losses of wagons
    type   integer
    format default

note

    title  note
    type   string
    format default
Bodart (1908) battle data: generals killed

name bodart1908_generals_killed
path bodart1908_generals_killed.csv
format csv

Bodart (1908) data on the generals killed in battles of the American Civil War
These data are from Bodart (1908), “Militär-Historisches Kreigs-Lexicon (1618-1905)”. See Bodart (1908) battles of the American Civil War for more information on this source.
This table contains the generals killed in battle for each battle in Bodart.
Bodart also lists the generals killed in battle on p. 910-911.

Bodart’s correspondence of ranks
- Gen. = general = kommandierender General
- Lieut.-Gen. = lieutenant-general = Generalleutenant
- Maj.-Gen. = major-general = Generalmajor
- Brig.-Gen. = brigadier-general = Brigade-general

Sources: [Bodart1908]
Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>Battle Id.</th>
</tr>
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<tbody>
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<td>belligerent</td>
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<td>full_name</td>
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<td>last_name</td>
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<td>Last name</td>
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<td>first_name</td>
<td>string</td>
<td>First name</td>
</tr>
<tr>
<td>middle_name</td>
<td>string</td>
<td>Middle name</td>
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<td>date</td>
<td>date</td>
<td>date</td>
</tr>
<tr>
<td>dbpedia</td>
<td>string</td>
<td>Dbpedia URI</td>
</tr>
</tbody>
</table>

**battle_id**

- title: Battle Id.
- type: string
- format: default

**belligerent**

- title: belligerent
- type: string
- format: default

**full_name**

- title: full_name
- type: string
- format: default

**last_name**

- title: Last name
- type: string
- format: default

**first_name**

- title: First name
- type: string
- format: default
middle_name

title Middle name
type string
format default

suffix

title Suffix
type number
format default

rank

title Rank
type string
format default
Rank of the general

date

title date
type date
format default
Date the general was killed (if given).

dbpedia

title Dbpedia URI
type string
format url
URI of the dbpedia.org resource for the person.
Correspondence between Bodart (1908) battles and CWSAC battle IDs

- **name**: bodart1908_to_cwsac
- **path**: bodart1908_to_cwsac.json
- **format**: json

Correspondence between battles in Bodart (1908) and CWSAC battle identifiers. This is the correspondence between battles in Bodart (1908), e.g. *Bodart (1908) battles of the American Civil War*, and the battle identifiers used by the National Park Service for CWSAC battles, e.g. *CWSAC Report battle data: battles*. Sources: [Bodart1908]
Correspondence between Bodart (1908) battles and dbpedia.org resources

- **name**: bodart1908_to_dbpedia
- **path**: bodart1908_to_dbpedia.json
- **format**: json

Correspondence between battles in Bodart (1908) and dbpedia.org URIs.

This is the correspondence between battles in Bodart (1908), e.g. *Bodart (1908) battles of the American Civil War*, and URIs of dbpedia.org resources.

Sources: [Bodart1908]
War Trend from Burdekin and Langdana (1993)

**name** burdekin_langdana_war_trend

**path** burdekin_langdana_war_trend.csv

**format** csv

War Trend variable used in Burdekin and Langdana (1993) “War Finance in the Southern Confederacy, 1861-1865”, *Explorations in Economic History*

They classify each quarter of the war as either neutral (0), bad for the Confederacy (-1), or good for the Confederacy (+1). All quarter are classified as 0 except

- +1 for 1863Q3: victory of Chancelorsville and advance of Lee’s army into Maryland and Pennsylvania
- -1 for 1862Q2: Richmond threatened by McClellan during the Peninsular campaign
- -1 for 1863Q4 and 1864Q1: Aftermath of Gettysburg and Vicksburg

Their classification was based on the qualitative accounts of crises of confidence in Schwab (1901), *The Confederate States of America, 1861-1865*. The variable is set to 0 in 1864Q2 and 1864Q3 because the Northern offensive stalls at the start of the year, and the Northern Democratic party’s nominees of McClellan.

Sources: [BurdekinLangdana1993]

**Schema**

<table>
<thead>
<tr>
<th>date</th>
<th>date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>trend</td>
<td>integer</td>
<td>War Trend</td>
</tr>
</tbody>
</table>

**date**

- **title** Date
- **type** date
First day of the quarter

trend

title War Trend
type integer
format default

-1 (+1) if war news is unfavorable (favorable) to Confederacy; 0 otherwise.
Batte data from civilwar.org

**name** civilwarorg_battles  
**path** civilwarorg_battles.csv  
**format** csv

Data on battles from the Civil War Trust. These are a subset of the National Park Service CWSAC battles, but can have slightly different, and sometimes more detailed, values for forces and casualties.

Sources:

### Schema

<table>
<thead>
<tr>
<th>battle_id</th>
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<th>Battle</th>
</tr>
</thead>
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<td>battle_name</td>
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<td>date</td>
<td>Start date</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>End date</td>
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<tr>
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<td>string</td>
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<td>Total strength</td>
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<td>dbpedia.org link</td>
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</table>

**battle_id**

**title** Battle
type string
format default

**battle_name**

title battle_name
type string
format default

**url**

title url
type string
format url
URL of the battle on civilwar.org.

**start_date**

title Start date
type date
format default

**end_date**

title End date
type date
format default

**alternate_names**

title Alternate Names
type string
format default

**location**

title Locations
type string
format default
state

title state

type string

format default

campaign

title Campaign

type string

format default

Campaign of the battle.

result

title Result

type string

format default

Battle result: Union victory, Confederate victory, or Inconclusive

total_casualties

title Total casualties

type string

format default

Total of Confederate and Union casualties

total_strength

title Total strength

type string

format default

Total of Confederate and Union strength (forces engaged).

cwsac_id

title CWSAC Id.

type string

format default

constraints
CWSAC battle identifier. See *CWSAC Report battle data: battles*.

Sources:

**dbpedia_url**

- **title** dbpedia.org link
- **type** string
- **format** url

Link to dbpedia.org resource.

Sources:
CHAPTER 15

Commanders in civilwar.org battle data

name civilwarorg_commanders
path civilwarorg_commanders.csv
format csv

Commanders of battles from the Civil War Trust. See Battle data from civilwar.org.
Sources:

Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>Battle</th>
</tr>
</thead>
<tbody>
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<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>Commander Name</td>
</tr>
<tr>
<td>url</td>
<td>string</td>
<td>Commander’s Bio URL</td>
</tr>
</tbody>
</table>

battle_id

title Battle
type string
format default

belligerent

title belligerent
type string
format default
constraints

    enum ['US', 'Confederate']

ame

title Commander Name

type string

format default

url

title Commander's Bio URL


type string

format url

URL to the biography of the commander at http://www.civilwar.org/education/history/biographies/.
CHAPTER 16

Strengths and casualties for forces in the civilwar.org battle data.

name civilwarorg_forces
path civilwarorg_forces.csv
format csv

Casualties and strengths of forces in battles from the Civil War Trust. See Battle data from civilwar.org.

Sources:

### Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
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<td>Battle</td>
</tr>
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<td>string</td>
<td>Belligerent</td>
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<tr>
<td>strength</td>
<td>integer</td>
<td>Strength</td>
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<tr>
<td>casualties</td>
<td>integer</td>
<td>Total casualties</td>
</tr>
<tr>
<td>killed</td>
<td>integer</td>
<td>Killed</td>
</tr>
<tr>
<td>wounded</td>
<td>integer</td>
<td>Wounded</td>
</tr>
<tr>
<td>killed_wounded</td>
<td>number</td>
<td>killed_wounded</td>
</tr>
<tr>
<td>missing_captured</td>
<td>integer</td>
<td>Missing and Captured</td>
</tr>
</tbody>
</table>

### battle_id

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Battle</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>format</td>
<td>default</td>
<td></td>
</tr>
</tbody>
</table>
belligerent

title Belligerent
type string
format default
constraints
  enum ['US', 'Confederate']

strength

title Strength
type integer
format default
constraints
  Troops engaged in the battle.

casualties

title Total casualties
type integer
format default
constraints

killed

title Killed
type integer
format default
constraints

wounded

title Wounded
type integer
format default
constraints
**killed_wounded**

- **title** killed_wounded
- **type** number
- **format** default

**missing_captured**

- **title** Missing and Captured
- **type** integer
- **format** default
- **constraints**
Chapter 16. Strengths and casualties for forces in the civilwar.org battle data.
Clodfelter (2008) battle data: battles

name clodfelter_battles
path clodfelter_battles.csv
format csv


Clodfelter has no strict rule for the inclusion of battles; his criteria is to include “all important and significant actions and the results of each conflict” (p. 1). No casualty threshold is used to select battles because that would have to vary across wars to produce sensical results.

Clodfelter divides the American Civil War into three theaters
- Eastern
- Western
- Blockade War

and divides the battles into thirteen groups: East (1861, 1862, 1863, 1864, 1865), West (1861, 1862, 1863, 1864, 1865), and Blockade War (1861–1862, 1863, 1864–1865).

Note on battle casualty percent. 15 percent for the American Civil War (p. 5).

The following battles had a significant naval component.
- Roanoke Island (Feb 7-8, 1862): large land component (13000, 3000)
- New Orleans (April 24, 1862): ship vs. fort.
- Galveston (Jan 1, 1863) Both sides had some land forces.
- Fort Hindman (Jan 11, 1863). Both sides had significant land forces.
- Fort Fisher (Jan 13-15). Both sides had significant land forces. Bombardment + assault on fort.
Quirks of the battles in this data:

- **Vicksburg**: divided into the overall siege and two Assaults
  - Vicksburg (siege) on 1863-5-18 to 1863-7-4
  - Vicksburg (1st assault) on 1863-5-19
  - Vicksburg (2nd assault) on 1863-5-22

- **Port Hudson**: divided into the overall siege and two Assaults
  - Port Hudson (Siege) on 1863-5-26 to 1863-7-9
  - Port Hudson (1st assault) on 1863-5-27
  - Port Hudson (2nd assault) on 1863-6-14

- **Chattanooga**: includes a battle for the overall battle and four separate Battles
  - Chattanooga on 1863-11-23 to 1863-11-25
  - Chattanooga (Orchard Knob/Indian Hill) on 11-23
  - Chattanooga (Lookout Mountain) on 11-24
  - Chattanooga (Tunnel Hill) on 11-25
  - Chattanooga (Missionary Ridge) on 11-25

- **Cold Harbor**: includes a battle for the overall siege and one for the assault
  - Cold Harbor (assault) on 1864-6-3
  - Cold Harbor on 1864-5-31 to 1864-6-12

- **The Battle of Hampton Roads** on March 8-9, 1862 is split into battles for each day
  - Hampton Roads (first day) on 1862-03-08
  - Hampton Roads (second day) on 1862-03-09

- **Seven Days Battles** includes an entry for the entire Seven Days Battles (June 25-July 1), as well as one for each separate battle.
  - The Orchard (Seven Days)
  - Mechanicsville (Seven Days)
  - Gaines’s Mill (Seven Days)
  - Savage’s Station (Seven Days)
  - White Oak Swamp (Seven Days)
  - Malvern Hill (Seven Days)

- **2nd Bull Run (Manassas) [VA026]** (1862-8-28 to 1862-8-30) and **Chantilly [VA027]** (1862-9-1) are divided into two battles:
  - Groveton (1862-8-28)
  - Second Bull Run/Chantilly (Second Manassas) (1862-8-29 to 1862-9-1)

- **3rd Petersburg on 1865-04-02** is split into two battles
  - Fort Gregg on 1865-04-02
  - Petersburg (2nd Assault) on 1865-04-02

- **Mobile Bay** only includes the assault on August 5, 1864 and not the entire siege.
Sources: [Clodfelter2008]

Schema

<table>
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<tr>
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- **title** battle_id
- **type** string
- **format** default

**theater**

- **title** Theater
- **type** string
- **format** default
- **constraints**
  - **enum** ['East', 'West', 'Blockade War']

**theater_years**

- **title** theater_years
- **type** string
- **format** default
- **constraints**

**start_date**

- **title** Start date
- **type** date
- **format** default
end_date

title  End Date

type  date

result

title  Result

type  string

constraints

enum  ['Union’, ‘Confederate’, ‘Indecisive’]

Result of the battle: Union victory, Confederate victory or tie. Clodfelter does not classify battles by result. This variable was added. The classifications follow CWSAC (CWSAC Report battle data: battles) where available.

Sources: [Clodfelter2008]

page

title  Page

type  integer

format  default

Page number in Clodfelter (2008)
CHAPTER 18

Clodfelter (2008) battle data: commanders

name clodfelter_commanders
path clodfelter_commanders.csv
format csv

Principal commanders of the battles listed in Clodfelter (2008) *Warfare and Armed Conflicts.*

Clodfelter does not directly list the principal commander of the battles. These were added for this data. They primarily follow the principal commanders for each battle given by the CWSAC ([CWSAC Report (1993) battle data: commanders](#)).

Sources: [Clodfelter2008]

**Schema**

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<th>Description</th>
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**battle_id**

- **title** battle_id
- **type** string
format default

belligerent

title belligerent
type string
format default

commander_number

title commander_number
type integer
format default

PersonID

title PersonID
type string
format default

last_name

title last_name
type string
format default

first_name

title first_name
type string
format default

middle_name

title middle_name
type string
format default
middle_initial

  title  middle_initial
  type  string
  format  default

rank

  title  rank
  type  string
  format  default

navy

  title  navy
  type  number
  format  default
Clodfelter (2008) battle data: forces

name clodfelter_forces
path clodfelter_forces.csv
format csv

Sources: [Clodfelter2008]

Schema

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<th>battle_id</th>
<th>string</th>
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<td>Brigades</td>
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<td>Companies</td>
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</tr>
<tr>
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<td>Gunboats</td>
<td>integer</td>
</tr>
<tr>
<td>ironclads</td>
<td>integer</td>
<td>Ironclads</td>
<td>integer</td>
</tr>
<tr>
<td>sloops</td>
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<td>integer</td>
</tr>
<tr>
<td>steamers</td>
<td>integer</td>
<td>Steamers</td>
<td>integer</td>
</tr>
<tr>
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<td>Warships and Transports</td>
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Continued on next page
Table 19.1 – continued from previous page

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<td>Captured</td>
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<td>Missing</td>
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<tr>
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<td>Killed or Wounded</td>
</tr>
<tr>
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<td>Warships Sunk</td>
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<td>Gunboats Sunk</td>
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<tr>
<td>gunboats_captured</td>
<td>integer</td>
<td>Gunboats Captured</td>
</tr>
<tr>
<td>ironclads_sunk</td>
<td>integer</td>
<td>Ironclads Sunk</td>
</tr>
<tr>
<td>ironclads_captured</td>
<td>integer</td>
<td>Ironclads Captured</td>
</tr>
<tr>
<td>forts_captured</td>
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<td>Forts Captured</td>
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<td>Note</td>
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<td>Strength (mean)</td>
</tr>
<tr>
<td>str_var</td>
<td>number</td>
<td>Strength (variance)</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** battle_id
- **type** string
- **format** default

**belligerent**

- **title** Belligerent
- **type** string
- **format** default
- **constraints**
  - **enum** ['US', 'Confederate']

**strength**

- **title** Strength
- **type** integer
- **format** default
Total number of personnel in the battle

**infantry**

- **title**: Infantry personnel
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Total number of infantry in the battle

**cavalry**

- **title**: Cavalry personnel
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Total number of cavalry in the battle

**crewmen**

- **title**: Crewmen
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Total number of naval crew in the battle

**corps**

- **title**: corps
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Number of corps in the battle
cavalry_corps

title  Cavalry Corps
type   integer
format default
constraints
  minimum 0
Number of cavalry corps in the battle

divisions

title  Divisions
type   integer
format default
constraints
  minimum 0
Number of divisions in the battle

cavalry_divisions

title  Cavalry Divisions
type   integer
format default
constraints
  minimum 0
Number of cavalry divisions in the battle

brigades

title  Brigades
type   integer
format default
constraints
  minimum 0
Number of brigades in the battle
companies

title Companies
type integer
format default
constraints
    minimum 0
Number of companies in the battle

frigates

title frigates
type integer
format default
constraints
    minimum 0

gunboats

title Gunboats
type integer
format default
constraints
    minimum 0

ironclads

title Ironclads
type integer
format default
constraints
    minimum 0

sloops

title Sloops
type integer
format default
constraints
    minimum 0
steamers

title  Steamers
type  integer
format  default
constraints
    minimum  0

warships_and_transports

title  Warships and Transports
type  integer
format  default
constraints
    minimum  0

warships

title  Warships
type  integer
format  default
constraints
    minimum  0

wooden_warships

title  Wooden Warships
type  integer
format  default
constraints
    minimum  0

guns

title  Guns
type  integer
format  default
constraints
    minimum  0

Number of artillery pieces
casualties

  title Casualties
  type integer
  format default
  constraints
    minimum 0

Casualties (killed, wounded, and missing or captured)

captured

  title Captured
  type integer
  format default
  constraints
    minimum 0

killed

  title Killed
  type integer
  format default
  constraints
    minimum 0

wounded

  title Wounded
  type integer
  format default
  constraints
    minimum 0

missing

  title Missing
  type integer
  format default
  constraints
    minimum 0
killed_wounded

    title  Killed or Wounded
    type   integer
    format default
    constraints
           minimum 0

killed_missing

    title  Killed or Missing
    type   integer
    format default
    constraints
           minimum 0

missing_captured

    title  Missing or Captured
    type   integer
    format default
    constraints
           minimum 0

wounded_missing

    title  Wounded or Missing
    type   integer
    format default
    constraints
           minimum 0

guns_lost

    title  Guns Lost
    type   integer
    format default
    constraints
           minimum 0

Number of guns (artillery pieces) captured by the opponent.
guns_captured

title  guns_captured
type   number
format default

small_arms_lost

title   Small Arms Lost
type    integer
format  default
constraints
    minimum 0

Number of small arms captured by the opponent.

small_arms_captured

title  small_arms_captured
type   number
format default

warships_sunk

title   Warships Sunk
type    integer
format  default
constraints
    minimum 0

Number of warships sunk by the opponent.

warships_damaged

title   Warships Damaged
type    integer
format  default
constraints
    minimum 0

Number of warships damaged by the opponent.
gunboats_sunk

  title  Gunboats Sunk
  type   integer
  format default
  constraints
      minimum 0
Number of gunboats sunk by the opponent.

gunboats_captured

  title  Gunboats Captured
  type   integer
  format default
  constraints
      minimum 0
Number of gunboats captured by the opponent.

ironclads_sunk

  title  Ironclads Sunk
  type   integer
  format default
  constraints
      minimum 0
Number of ironclads sunk by the opponent.

ironclads_captured

  title  Ironclads Captured
  type   integer
  format default
  constraints
      minimum 0
Number of ironclads captured by the opponent.
**forts_captured**

- **title**: Forts Captured
- **type**: integer
- **format**: default
- **constraints**: minimum 0

Number of forts captured by the opponent.

**note**

- **title**: Note
- **type**: string
- **format**: default

**str_mean**

- **title**: Strength (mean)
- **type**: number
- **format**: default
- **constraints**: minimum 0

Mean of the estimated strength in personnel of the force. See code for how it is calculated.

Sources: [Clodfelter2008]

**str_var**

- **title**: Strength (variance)
- **type**: number
- **format**: default
- **constraints**: minimum 0

Variance of the estimated strength in personnel of the force. See code for how it is calculated.

Sources: [Clodfelter2008]
Correspondence between Clodfelter and CWSAC battles.

- name: clodfelter_to_cwsac
- path: clodfelter_to_cwsac.json
- format: json

Sources: [Clodfelter2008]
name  clodfelter_to_dbpedia
path  clodfelter_to_dbpedia.json
format  json

Sources: [Clodfelter2008]
CWSAC Report Updates battle data

- **name**: cws2
- **path**: cws2.json
- **format**: json

Data from the CWSAC Report Updates

This is a json file with an entry for each battle and the data arranged hierarchically. The various other cwsac2_* datasets present this same data in tabular form.

Sources:
CWSAC Report Updates battle data: battles

name cws2_battles
path cws2_battles.csv
format csv

Sources: [CWSII], [CWSIIAL], [CWSIIAR], [CWSIIICO], [CWSIIIDC], [CWSIIIGA], [CWSIIIKS], [CWSIIKY], [CWSIIIMN], [CWSIIILA], [CWSIIIMD], [CWSIIIMO], [CWSIIINC], [CWSIIIND], [CWSIIIOH], [CWSIIIOK], [CWSIIIPA], [CWSIIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]

Schema

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<td>Strength (mean)</td>
</tr>
<tr>
<td>strength_var</td>
<td>number</td>
<td>Strength (variance)</td>
</tr>
</tbody>
</table>

battle

title Battle
type string
format default
constraints
  minLength 5
  maxLength 6
  pattern [A-Z][2][0-9][3][A-Z]?
CWSAC battle identifier

battle_name

title Battle Name
type string
format default

state

title State
type string
format default
constraints
  minLength 2
  maxLength 2
  pattern [A-Z][A-Z]
State in which the battle occurred. Two-letter abbreviation of the state.

campaign

title Campaign
type string
format default
Campaign of the battle

url

title url
type string
format url
URL of the CWSAC Updated report
forces_text

    title  Forces
    type   string
    format default

Text description of the forces involved in the battle

strength

    title  Strength
    type   integer
    format default
    constraints
        minimum 0

Total personnel (on both sides) in the battle. For some battles, CWSAC gives an aggregate total, but not totals for the individual sides.

results_text

    title  Results (text)
    type   string
    format default

Description of the result of the battle

result

    title  result
    type   number
    format default

Battle result

study_area

    title  Study Area
    type   number
    format default

Study area in acres The Study Area represents the historic extent of the battle as it unfolded across the landscape. The Study Area contains resources known to relate to or contribute to the battle event: where troops maneuvered and deployed, immediately before and after combat, and where they fought during combat. Historic accounts, terrain analysis, and feature identification inform the delineation of the Study Area boundary. Historic setting, approaches, and natural features that figure importantly in the battle are defining elements. The Study Area indicates the extent to which historic and archeological resources associated with the battle (areas of combat, command, communications,
logistics, medical services, etc.) may be found and protected. Surveyors delineated Study Area boundaries for every battle site that was positively identified through research and field survey, regardless of its present integrity.

**core_area**

- **title**: core_area
- **type**: number
- **format**: default

Core area in acres

The Core Area represents the areas of direct engagement on the battlefield. Positions that delivered or received fire, and the space connecting them, fall within the Core Area. Frequently described as “hallowed ground,” land within the Core Area is often the first to be targeted for protection. There may be more than one Core Area on a battlefield, but all lie within the Study Area.

**potnr_boundary**

- **title**: potnr_boundary
- **type**: number
- **format**: default

Potential National Register Boundary area in acres

Unlike the Study and Core Area, which are based only upon the interpretation of historic events, the Potential National Register (PotNR) boundary represents ABPPs assessment of a Study Areas current integrity (the surviving landscape and features that convey the sites historic sense of place). The PotNR boundary may include all or some of the Study Area, and all or some of the Core Area. Although preparing a National Register nomination may require further assessment of historic integrity and more documentation than that provided by the ABPP survey, PotNR boundaries identify land that merits this additional effort.

**strength_mean**

- **title**: Strength (mean)
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0

Mean of the estimated strength in personnel of the force. See code for how it is calculated.

Sources: [CWSII], [CWSIIA], [CWSIAR], [CWSIICO], [CWSIIDC], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIIIA], [CWSIIMD], [CWSIIMO], [CWSIINC], [CWSIIIND], [CWSIIHO], [CWSIIOK], [CWSIIPA], [CWSIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]

**strength_var**

- **title**: Strength (variance)
- **type**: number
- **format**: default
- **constraints**
minimum 0

Variance of the estimated strength in personnel of the force. See code for how it is calculated.

Sources: [CWSII], [CWSIIA], [CWSIIAR], [CWSIICO], [CWSIIFL], [CWSIIAG], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIIIA], [CWSIIMD], [CWSIIOM], [CWSIINC], [CWSIIND], [CWSIHOB], [CWSIHOK], [CWSIIPA], [CWSIHSC], [CWSITHN], [CWSIIVA], [CWSIIVW]
CWSAC Report Updates: commanders

**name** cws2_commanders  
**path** cws2_commanders.csv  
**format** csv

Sources: [CWSII], [CWSIIA], [CWSIIC], [CWSIID], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIIM], [CWSIIIA], [CWSIIMD], [CWSIIMO], [CWSIIINC], [CWSIIND], [CWSIIHO], [CWSIIOK], [CWSIIPA], [CWSIIISC], [CWSIIIT], [CWSIIVA], [CWSIIWV]

### Schema

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<td>belligerent</td>
</tr>
<tr>
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<td>Full name</td>
</tr>
<tr>
<td>rank</td>
<td>string</td>
<td>Rank</td>
</tr>
<tr>
<td>last_name</td>
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<td>Last Name</td>
</tr>
<tr>
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<td>string</td>
<td>First Name</td>
</tr>
<tr>
<td>middle_name</td>
<td>string</td>
<td>Middle Name</td>
</tr>
<tr>
<td>suffix</td>
<td>string</td>
<td>Suffix</td>
</tr>
</tbody>
</table>

**battle**

- **title** Battle  
- **type** string  
- **format** default  
- **constraints**  
  - **minLength** 5
**belligerent**

- **MaxLength**: 6
- **Pattern**: `[A-Z][2-9][A-Z]?

  CWSAC battle identifier

**fullname**

- **Title**: Full name
- **Type**: String
- **Format**: Default

**rank**

- **Title**: Rank
- **Type**: String
- **Format**: Default

Rank of the commander at the time of the battle

**last_name**

- **Title**: Last Name
- **Type**: String
- **Format**: Default

**first_name**

- **Title**: First Name
- **Type**: String
- **Format**: Default
middle_name

  title  Middle Name
  type   string
  format default

suffix

  title  Suffix
  type   string
  format default
CWSAC Report Updates battle data: battle dates

- **name**: cws2_dates
- **path**: cws2_dates.csv
- **format**: csv

Sources:  [CWSII], [CWSIIAL], [CWSIIAR], [CWSIICO], [CWSIIDC], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIIM], [CWSIILA], [CWSIIIMD], [CWSIIMO], [CWSIIINC], [CWSIIND], [CWSIIHO], [CWSIIOK], [CWSIIPA], [CWSIIASC], [CWSIIHTN], [CWSIIIVA], [CWSIIWV]

**Schema**

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</tr>
<tr>
<td>start_date</td>
<td>date</td>
<td>Start Date</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>End Date</td>
</tr>
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</table>

**battle**

- **title**: Battle
- **type**: string
- **format**: default
- **constraints**
  - minLength 5
  - maxLength 6
  - pattern [A-Z]{2}[0-9]{3}[A-Z]?

CWSAC battle identifier
spell

title Spell

type integer

format default

constraints

minimum 1

maximum 2

Spell number of the battle. Only one battle had non-contiguous dates, and two spells.

start_date

title Start Date

type date

format default

da

end_date

title End Date

type date

format default
CWSAC Report Updates battle data: force strengths

name cws2_forces
path cws2_forces.csv
format csv

Sources: [CWSI], [CWSIAR], [CWSIICO], [CWSIIDC], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIILA], [CWSIIIMD], [CWSIIMO], [CWSIINC], [CWSIIND], [CWSIIOH], [CWSIIOK], [CWSIIPA], [CWSIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]
### Schema

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<td>belligerent</td>
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<td>Description</td>
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<td>Cavalry Companies</td>
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<tr>
<td>infantry_regiments</td>
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<td>Infantry Regiments</td>
</tr>
<tr>
<td>strength_other</td>
<td>integer</td>
<td>Strength (other)</td>
</tr>
<tr>
<td>ships</td>
<td>integer</td>
<td>Ships</td>
</tr>
<tr>
<td>guns</td>
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<td>Guns</td>
</tr>
<tr>
<td>strength_mean</td>
<td>number</td>
<td>Strength (mean)</td>
</tr>
<tr>
<td>strength_var</td>
<td>number</td>
<td>Strength (variance)</td>
</tr>
</tbody>
</table>

### battle

- **title**: Battle
- **type**: string
- **format**: default
- **constraints**
  - **minLength**: 5
  - **maxLength**: 6
  - **pattern**: [A-Z]{2}[0-9]{3}[A-Z]?  

CWSAC battle identifier

### belligerent

- **title**: belligerent
- **type**: string
- **format**: default
- **constraints**
enum ['US', 'Confederate', 'Native American']

description

  title  Description
  type  string
  format  default

Description of the units involved

strength

  title  strength
  type  integer
  format  default
  constraints
    minimum  0

Total personnel in the force. In some cases CWSAC gives a numeric value of the forces involved. In other cases, it describes the units involved. The columns strength_mean and strength_var estimate the strength combining all information given by CWSAC.

regiments

  title  Regiments
  type  integer
  format  default
  constraints
    minimum  0

Number of regiments

companies

  title  companies
  type  integer
  format  default
  constraints
    minimum  0

Number of companies
brigades

title  brigades
type  integer
format  default
constraints
minimum  0
Number of brigades

divisions

title  divisions
type  integer
format  default
constraints
minimum  0
Number of divisions

corps

title  corps
type  integer
format  default
constraints
minimum  0
Number of corps

armies

title  armies
type  integer
format  default
constraints
minimum  0
Number of armies
**cavalry_regiments**

- **title**: Cavalry Regiments
- **type**: integer
- **format**: default
- **constraints**: minimum 0

Number of cavalry regiments

**cavalry_brigades**

- **title**: Cavalry Brigades
- **type**: integer
- **format**: default
- **constraints**: minimum 0

Number of cavalry brigades

**cavalry_divisions**

- **title**: Cavalry Divisions
- **type**: integer
- **format**: default
- **constraints**: minimum 0

Number of cavalry divisions

**cavalry_corps**

- **title**: Cavalry Corps
- **type**: integer
- **format**: default
- **constraints**: minimum 0

Number of cavalry corps
cavalry_companies

title  Cavalry Companies
type  integer
format  default
constraints
    minimum  0
Number of cavalry companies

artillery_batteries

title  Artillery Batteries
type  integer
format  default
constraints
    minimum  0
Number of artillery batteries

artillery_companies

title  Artillery Companies
type  integer
format  default
constraints
    minimum  0
Number of artillery companies

artillery_regiments

title  Artillery Regiments
type  integer
format  default
constraints
    minimum  0
Number of artillery regiments
artillery_sections

  title  Artillery Sections
  type   integer
  format default
  constraints
    minimum 0

Number of artillery sections

infantry_regiments

  title  Infantry Regiments
  type   integer
  format default
  constraints
    minimum 0

Number of infantry regiments

strength_other

  title  Strength (other)
  type   integer
  format default
  constraints
    minimum 0

Number of personnel involved other than the units listed in the description.

ships

  title  Ships
  type   integer
  format default
  constraints
    minimum 0

Number of ships involved in the battle
guns

title  Guns

type  integer

format  default

constraints

minimum  0

Number of artillery pieces involved in the battle

strength_mean

title  Strength (mean)

type  number

format  default

constraints

minimum  0

Mean of the estimated strength in personnel of the force. See code for how it is calculated.

Sources:  [CWSII], [CWSIIAL], [CWSIIAR], [CWSIIICO], [CWSIIIDC], [CWSIIIFL], [CWSIIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIIHA], [CWSIIMD], [CWSIIIMO], [CWSIIINC], [CWSIIND], [CWSIIHOH], [CWSIIOK], [CWSIIPA], [CWSIIISC], [CWSIITN], [CWSIIIVA], [CWSIIWV]

strength_var

title  Strength (variance)

type  number

format  default

constraints

minimum  0

Variance of the estimated strength in personnel of the force. See code for how it is calculated.

Sources:  [CWSII], [CWSIIAL], [CWSIIAR], [CWSIIICO], [CWSIIIDC], [CWSIIIFL], [CWSIIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIIHA], [CWSIIMD], [CWSIIIMO], [CWSIIINC], [CWSIIND], [CWSIIHOH], [CWSIIOK], [CWSIIPA], [CWSIIISC], [CWSIITN], [CWSIIIVA], [CWSIIWV]
CWSAC Report Updates battle data: locations

**name** cws2_locations

**path** cws2_locations.csv

**format** csv

Sources: [CWSII], [CWSIAL], [CWSIAR], [CWSIICO], [CWSIIDC], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIIIA], [CWSIIMD], [CWSIIMO], [CWSIINC], [CWSIIND], [CWSIIHO], [CWSIIOK], [CWSIIPA], [CWSIIISC], [CWSIITN], [CWSIIIVA], [CWSIIWV]

**Schema**

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<td>state</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>location</td>
<td>string</td>
<td>County or City</td>
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**battle**

- **title** Battle
- **type** string
- **format** default
- **constraints**
  - **minLength** 5
  - **maxLength** 6
  - **pattern** [A-Z][2][0-9][3][A-Z]?  

CWSAC battle identifier
state

title State

type string

format default

constraints

  minLength 2

  maxLength 2

  pattern [A-Z][A-Z]

2-letter State abbreviation

location


title County or City


type string

format default

County or city in which the battle occurred.
Data from the CWSAC Report (1993)

This is a json file with an entry for each battle and the data arranged hierarchically. The various other cwsac_* datasets present this same data in tabular form.

Sources:
Civil War Sites Advisory Commission 1993 Report battle data

These data are from the CWSAC Battle Summaries. The unstructured webpages were cleaned and converted into the structured data in these tables.

For more information on the CWSAC data see

- http://www.nps.gov/hps/abpp/cwsac/cws0-1.html

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]
### Schema

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<td>Battle Name</td>
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<td>other_names</td>
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<td>Other Battle Names</td>
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<td>Start Date</td>
</tr>
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<td>significance</td>
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<td>Military significance</td>
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<tr>
<td>strength_mean</td>
<td>number</td>
<td>Strength (mean)</td>
</tr>
<tr>
<td>strength_var</td>
<td>number</td>
<td>Strength (variance)</td>
</tr>
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</table>

**battle**

- **title** Battle
- **type** string
- **format** default
- **constraints**
  - **minLength** 5
  - **maxLength** 6
  - **pattern** [A-Z][2][0-9][3][A-Z]?

CWSAC battle identifier

**url**

- **title** url
- **type** string
- **format** url

URL of the battle summary
**battle_name**

- **title**: Battle Name
- **type**: string
- **format**: default

**other_names**

- **title**: Other Battle Names
- **type**: string
- **format**: default

Secondary or commonly used names, such as Elkhorn Tavern (Pea Ridge), Bull Run (Manassas), and Sharpsburg (Antietam).

**state**

- **title**: State
- **type**: string
- **format**: default
  - **constraints**
    - **minLength**: 2
    - **maxLength**: 2
    - **pattern**: [A-Z][A-Z]

2-letter State abbreviation

**locations**

- **title**: Locations
- **type**: string
- **format**: default

The present day county or city in which the battlefield is located.

**campaign**

- **title**: Campaign
- **type**: string
- **format**: default

The larger military operation with which the battle is associated.
**start_date**

- **title**: Start Date
- **type**: date
- **format**: default

**end_date**

- **title**: End Date
- **type**: date
- **format**: default

**operation**

- **title**: operation
- **type**: boolean
- **format**: default

Was the battle an operation, a series of several related battles? E.g. Marietta Operations.

**assoc_battles**

- **title**: Associated battles
- **type**: string
- **format**: default

If the battle was an operation, this contains the names of the battles in that operation.

**results_text**

- **title**: Results
- **type**: string
- **format**: default

Text description of the battle result

The victor in the battle, if the outcome was definitive. If the outcome was other than definitive, that information is provided.

**result**

- **title**: result
- **type**: string
- **format**: default
- **constraints**
enum ['Union', 'Confederate', 'Inconclusive']
Categorical result of the battle: Union victory, Confederate victory, or a tie.

forces_text

title forces_text

type string

format default

Description of the forces involved in the battle. CWSAC summary

In most summaries, the particular company, regiment, brigade, division, corps, army, garrison, detachment, or ship. Some summaries, however, indicate the number of troops involved. In both cases, the purpose is to provide an idea of the size of the engagement. Most of the forces engaged were found in the U.S. War Department’s Official Records.

strength

title strength

type integer

format default

constraints

minimum 0

Total personnel involved in the battle. In some cases, CWSAC gives a number for the total personnel in the battle, but does not disaggregate by side.

casualties_text

title casualties_text

type string

format default

Description of the casualties of the battle.

casualties

title Casualties

type integer

format default

constraints

minimum 0

Total casualties (both sides) of the battle. In some cases, CWSAC gives a number for the total personnel in the battle, but does not disaggregate by side. CWSAC description of casualties

29.1. Schema
American Civil War Battle Data Documentation, Release 5.0.1

No source exists, either in print or in manuscript, that provides casualty figures for all Civil War battles or even for the 384 principal battles that the CWSAC studied. Some of the casualty figures for the 384 principal battles are unknown; in some instances reliable figures are available for one of the combatants but not for the other. Few casualty figures are definitive; sources often differ in their figures. A variety of sources, both official and commercial, printed and in manuscript, were consulted. All casualty figures were subjected to historical analysis before inclusion in the summaries.

A partial list of sources follows.


description

title  Battle summary
type  string
format  default

Short text summary of the battle. CWSAC documentation

A historical account or summary of the battle. A variety of sources, both general and specific, published and in manuscript, were consulted in the preparation of these accounts. The general sources consulted include those listed below. More specific published and manuscript sources were also consulted and analyzed.


preservation

title Preservation Priority
type string
format default

A designation made by the Commission based on the level of historical significance, the integrity of the remaining battlefield features, and the level of threat to the battlefield’s existence. For example, IV.1 (Class D) means that the Commission determined that a particular battlefield site was Priority IV: Fragmented Battlefields, All Military Classes, Poor Integrity. (See Table 7, pages 49-53 in the Report on the Nation’s Civil War Battlefield, for the preservation priority of all the battlefields studied.) Class A, B, C, or D indicates a battle’s (and associated battlefield’s) level of military importance within its campaign and the war. (See page v of this volume for an explanation of each of the four designations.) N/D indicates that no data is currently available to determine the level of threat to the site.

significance

title Military significance
type string
format default

constraints
  enum ['A', 'B', 'C', 'D']

Four-category classification of the military significance of the battle.

strength_mean

title Strength (mean)
type number
format default
constraints
  minimum 0

Mean of the estimated strength in personnel of the force. See code for how it is calculated.

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]
**strength_var**

- **title**: Strength (variance)
- **type**: number
- **format**: default
- **constraints**

  - **minimum**: 0

Variance of the estimated strength in personnel of the force. See code for how it is calculated.

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]
CHAPTER 30

CWSAC Report battle data: campaigns

name cwsac_campaigns
path cwsac_campaigns.csv
format csv

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]

**Schema**

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<td>End Month</td>
</tr>
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<td>string</td>
<td>dbpedia</td>
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</tbody>
</table>

**campaign**

- **title** Campaign
- **type** string
- **format** default

Campaign name

**theater**

- **title** Theater
type  string
format  default
Theater of the campaign

**start_year**

title  Start year
type  integer
format  default
constraints
  minimum  1861
  maximum  1865

**start_month**

title  Start month
type  integer
format  default
constraints
  minimum  1
  maximum  12

**end_year**

title  End year
type  integer
format  default
constraints
  minimum  1861
  maximum  1865

**end_month**

title  End Month
type  integer
format  default
constraints
  minimum  1
  maximum  12
**dbpedia**

- **title**: dbpedia
- **type**: string
- **format**: default

URI of the dbpedia.org resource for the campaign

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]
CWSAC Report (1993) battle data: commanders

name cwsac_commanders
path cwsac_commanders.csv
format csv
Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]

Schema

<table>
<thead>
<tr>
<th>battle</th>
<th>string</th>
<th>battle</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>fullname</td>
<td>string</td>
<td>fullname</td>
</tr>
<tr>
<td>rank</td>
<td>string</td>
<td>rank</td>
</tr>
<tr>
<td>navy</td>
<td>integer</td>
<td>navy</td>
</tr>
<tr>
<td>first_name</td>
<td>string</td>
<td>first_name</td>
</tr>
<tr>
<td>last_name</td>
<td>string</td>
<td>last_name</td>
</tr>
<tr>
<td>middle_name</td>
<td>string</td>
<td>middle_name</td>
</tr>
<tr>
<td>suffix</td>
<td>string</td>
<td>suffix</td>
</tr>
</tbody>
</table>

battle

title battle
type string
format default

belligerent

title belligerent
type  string
format  default

fullname

title  fullname
type  string
format  default

rank

title  rank
type  string
format  default

navy

title  navy
type  integer
format  default

first_name

title  first_name
type  string
format  default

last_name

title  last_name
type  string
format  default

middle_name

title  middle_name
type  string
format  default
suffix

title suffix

type string

format default
CWSAC Report (1993) battle data: forces

- **name**: cwsac_forces
- **path**: cwsac_forces.csv
- **format**: csv

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]
## Schema

```
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>battle</td>
<td>string</td>
<td>Battle</td>
</tr>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>description</td>
<td>string</td>
<td>description</td>
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<tr>
<td>strength_min</td>
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<tr>
<td>strength_max</td>
<td>number</td>
<td>strength_max</td>
</tr>
<tr>
<td>armies</td>
<td>number</td>
<td>armies</td>
</tr>
<tr>
<td>corps</td>
<td>number</td>
<td>corps</td>
</tr>
<tr>
<td>divisions</td>
<td>number</td>
<td>divisions</td>
</tr>
<tr>
<td>brigades</td>
<td>number</td>
<td>brigades</td>
</tr>
<tr>
<td>regiments</td>
<td>number</td>
<td>regiments</td>
</tr>
<tr>
<td>companies</td>
<td>number</td>
<td>companies</td>
</tr>
<tr>
<td>cavalry_regiments</td>
<td>number</td>
<td>cavalry_regiments</td>
</tr>
<tr>
<td>cavalry_brigades</td>
<td>number</td>
<td>cavalry_brigades</td>
</tr>
<tr>
<td>cavalry_corps</td>
<td>number</td>
<td>cavalry_corps</td>
</tr>
<tr>
<td>cavalry_divisions</td>
<td>number</td>
<td>cavalry_divisions</td>
</tr>
<tr>
<td>artillery_batteries</td>
<td>number</td>
<td>artillery_batteries</td>
</tr>
<tr>
<td>ships</td>
<td>number</td>
<td>ships</td>
</tr>
<tr>
<td>ironclads</td>
<td>number</td>
<td>ironclads</td>
</tr>
<tr>
<td>gunboats</td>
<td>number</td>
<td>gunboats</td>
</tr>
<tr>
<td>wooden_ships</td>
<td>number</td>
<td>wooden_ships</td>
</tr>
<tr>
<td>rams</td>
<td>number</td>
<td>rams</td>
</tr>
<tr>
<td>casualties</td>
<td>number</td>
<td>casualties</td>
</tr>
<tr>
<td>killed</td>
<td>number</td>
<td>killed</td>
</tr>
<tr>
<td>wounded</td>
<td>number</td>
<td>wounded</td>
</tr>
<tr>
<td>missing</td>
<td>number</td>
<td>missing</td>
</tr>
<tr>
<td>captured</td>
<td>number</td>
<td>captured</td>
</tr>
<tr>
<td>strength_mean</td>
<td>number</td>
<td>strength_mean</td>
</tr>
<tr>
<td>strength_var</td>
<td>number</td>
<td>strength_var</td>
</tr>
</tbody>
</table>
```

**battle**

- **title** Battle
- **type** string
- **format** default
- **constraints**
  - minLength 5
  - maxLength 6
  - pattern `[A-Z][0-9][A-Z]?`

CWSAC battle identifier

**belligerent**

- **title** belligerent
- **type** string
Side of the force: Confederate or Union or Native American.

description

title description

type string

format default

Description of the force, often including the units involved.

strength_min

title strength_min

type number

format default

Minimum forces engaged.

strength_max

title strength_max

type number

format default

Maximum sources engaged.

armies

title armies

type number

format default

corps

title corps

type number

format default
divisions

title  divisions

type  number

format  default

brigades

title  brigades

type  number

format  default

regiments

title  regiments

type  number

format  default

companies

title  companies

type  number

format  default

cavalry_regiments

title  cavalry_regiments

type  number

format  default

cavalry_brigades

title  cavalry_brigades

type  number

format  default

cavalry_corps

title  cavalry_corps

type  number

format  default
cavalry_divisions

title cavalry_divisions

type number

format default

artillery_batteries

title artillery_batteries

type number

format default

ships

title ships

type number

format default

ironclads

title ironclads

type number

format default

gunboats

title gunboats

type number

format default

wooden_ships

title wooden_ships

type number

format default

rams

title rams

type number

format default
casualties
  title casualties
  type number
  format default

killed
  title killed
  type number
  format default

wounded
  title wounded
  type number
  format default

missing
  title missing
  type number
  format default

captured
  title captured
  type number
  format default

strength_mean
  title strength_mean
  type number
  format default

strength_var
  title strength_var
  type number
  format default
CWSAC Report (1993) preservation priority categories

- **name**: cwsac_preservation
- **path**: cwsac_preservation.csv
- **format**: csv

Sources: [CWSAC1993], [CWSAC1997]

### Schema

<table>
<thead>
<tr>
<th>value</th>
<th>string</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>string</td>
<td>Description</td>
</tr>
</tbody>
</table>

#### value

- **title**: Value
- **type**: string
- **format**: default

#### description

- **title**: Description
- **type**: string
- **format**: default
CWSAC Report Updates battle data: military significance categories

- **name**: cwsac_significance
- **path**: cwsac_significance.csv
- **format**: csv

Military significance categories of CWSAC battles (CWSAC Report battle data: battles).
Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]

### Schema

<table>
<thead>
<tr>
<th>value</th>
<th>string</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>string</td>
<td>Description</td>
</tr>
</tbody>
</table>

**value**

- **title**: Value
- **type**: string
- **format**: default

**description**

- **title**: Description
- **type**: string
- **format**: default
CWSAC Report (1993) theaters

name  cwsac_theaters
path  cwsac_theaters.csv
format csv

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]

**Schema**

<table>
<thead>
<tr>
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<th>Theater</th>
</tr>
</thead>
<tbody>
<tr>
<td>dbp_resource</td>
<td>string</td>
<td>DBPedia URI</td>
</tr>
<tr>
<td>dbp_category</td>
<td>string</td>
<td>DBPedia URI (category)</td>
</tr>
</tbody>
</table>

**theater**

- **title**  Theater
- **type**  string
- **format**  default

**dbp_resource**

- **title**  DBPedia URI
- **type**  string
- **format**  url

URI of the dbpedia.org category resource for the theater.

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]
**dbp_category**

- **title**: DBPedia URI (category)
- **type**: string
- **format**: url

URI of the dbpedia.org category resource for the theater.

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]
CWSS battle data: units engaged

name  cwss_battle_units
path  cwss_battle_units.csv
format  csv

Units engaged in each battle in CWSS battle data: battles on each side. These units correspond to units in CWSS units (regiments), and are largely at the size of the regiment. This data does not include naval forces.

This data was extracted from the CWSS database file battleunitlinks.xml.

The primary sources of the battle unit data are Frederick Dyer (1908), A Compendium of the War of the Rebellion for the Union forces, and Joseph Crute Units of the Confederate States Army for Confederate Units. While these data appear relatively complete for the Union, they do not appear to be complete for the Confederate battles. Many battles have missing data on the Confederate side (e.g. Gettysburg), and even within battles, there are sometimes fewer Confederate units than would be expected.

Sources: [CWSS]

Schema

<table>
<thead>
<tr>
<th>BattlefieldCode</th>
<th>string</th>
<th>Battlefield code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comment</td>
<td>string</td>
<td>Comment</td>
</tr>
<tr>
<td>Source</td>
<td>string</td>
<td>Source</td>
</tr>
<tr>
<td>UnitCode</td>
<td>string</td>
<td>Unit code</td>
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<td>number</td>
<td>companies</td>
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<tr>
<td>batteries</td>
<td>number</td>
<td>batteries</td>
</tr>
<tr>
<td>detachment</td>
<td>number</td>
<td>detachment</td>
</tr>
<tr>
<td>section</td>
<td>number</td>
<td>section</td>
</tr>
</tbody>
</table>
**BattlefieldCode**

- **title**: Battlefield code
- **type**: string
- **format**: default
- **constraints**
  - **minLength**: 5
  - **maxLength**: 6
  - **pattern**: `[A-Z][2][0-9][3][A-Z]`

CWSAC battle identifier

**Comment**

- **title**: Comment
- **type**: string
- **format**: default

**Source**

- **title**: Source
- **type**: string
- **format**: default

**UnitCode**

- **title**: Unit code
- **type**: string
- **format**: default

**companies**

- **title**: companies
- **type**: number
- **format**: default

**batteries**

- **title**: batteries
- **type**: number
- **format**: default
detachement

title detachment

type number

format default

section


title section

type number

format default
CWSS battle data: battles

name cwss_battles
path cwss_battles.csv
format csv

Battles of the Civil War Soldiers and Sailors (CWSS) database. These battles are largely the same set as in the CWSAC Report (CWSAC Report battle data: battles) with a few exceptions, some of which appear to be errors.

This data was extracted from the CWSS database file battle.xml.

Sources: [CWSS]

Schema

<table>
<thead>
<tr>
<th>BattlefieldCode</th>
<th>string</th>
<th>Battlefield code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BattleName</td>
<td>string</td>
<td>Battle name</td>
</tr>
<tr>
<td>BattleType</td>
<td>string</td>
<td>Battle type</td>
</tr>
<tr>
<td>BeginDate</td>
<td>date</td>
<td>Begin date</td>
</tr>
<tr>
<td>EndDate</td>
<td>date</td>
<td>End date</td>
</tr>
<tr>
<td>State</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>TheaterCode</td>
<td>string</td>
<td>TheaterCode</td>
</tr>
<tr>
<td>CampaignCode</td>
<td>string</td>
<td>CampaignCode</td>
</tr>
<tr>
<td>Result</td>
<td>string</td>
<td>Result</td>
</tr>
<tr>
<td>TotalCasualties</td>
<td>integer</td>
<td>TotalCasualties</td>
</tr>
<tr>
<td>Comment</td>
<td>string</td>
<td>Comment</td>
</tr>
<tr>
<td>ID</td>
<td>integer</td>
<td>ID</td>
</tr>
<tr>
<td>ShortSummary</td>
<td>string</td>
<td>Short summary</td>
</tr>
<tr>
<td>ShortSummarySource</td>
<td>string</td>
<td>Short summary source</td>
</tr>
<tr>
<td>Summary</td>
<td>string</td>
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<td>Summary source</td>
</tr>
<tr>
<td>URL</td>
<td>string</td>
<td>URL</td>
</tr>
</tbody>
</table>
BattlefieldCode

- **title**: Battlefield code
- **type**: string
- **format**: default
- **constraints**
  - **minLength**: 5
  - **maxLength**: 6
  - **pattern**: [A-Z][2][0-9][3][A-Z]?  

CWSAC battle identifier

BattleName

- **title**: Battle name
- **type**: string
- **format**: default

BattleType

- **title**: Battle type
- **type**: string
- **format**: default

BeginDate

- **title**: Begin date
- **type**: date
- **format**: default

EndDate

- **title**: End date
- **type**: date
- **format**: default

State

- **title**: State
- **type**: string
- **format**: default
- **constraints**
minLength 2
maxLength 2
pattern [A-Z][A-Z]

TheaterCode

title TheaterCode
type string
format default

CampaignCode

title CampaignCode
type string
format default

Result

title Result
type string
format default

TotalCasualties

title TotalCasualties
type integer
format default
constraints
minimum 0

Comment

title Comment
type string
format default

ID

title ID
type integer
format default
ShortSummary

title  Short summary

type  string

format  default

ShortSummarySource

title  Short summary source

type  string

format  default

Summary

title  Summary

type  string

format  default

SummarySource

title  Summary source

type  string

format  default

URL

title  URL

type  string

format  url
CWSS campaign list

name cwss_campaigns
path cwss_campaigns.csv
format csv

Campaigns of CWSS battles. Each battle in CWSS battle data: battles has a campaign, and each campaign has a theater in CWSS theaters.

This data was extracted from the CWSS database file battle.xml.

Sources: [CWSS]

Schema

<table>
<thead>
<tr>
<th></th>
<th>type</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CampaignCode</td>
<td>string</td>
<td>Campaign code</td>
</tr>
<tr>
<td>CampaignName</td>
<td>string</td>
<td>Campaign name</td>
</tr>
<tr>
<td>CampaignDates</td>
<td>string</td>
<td>Campaign dates</td>
</tr>
<tr>
<td>CampaignStartDate</td>
<td>date</td>
<td>Campaign start date</td>
</tr>
<tr>
<td>CampaignEndDate</td>
<td>date</td>
<td>Campaign end date</td>
</tr>
<tr>
<td>TheaterCode</td>
<td>string</td>
<td>Theater code</td>
</tr>
</tbody>
</table>

CampaignCode

title Campaign code

type string

format default
**CampaignName**

- **title**: Campaign name
- **type**: string
- **format**: default

**CampaignDates**

- **title**: Campaign dates
- **type**: string
- **format**: default

**CampaignStartDate**

- **title**: Campaign start date
- **type**: date
- **format**: default

**CampaignEndDate**

- **title**: Campaign end date
- **type**: date
- **format**: default

**TheaterCode**

- **title**: Theater code
- **type**: string
- **format**: default
CWSS unit category abbreviations

name  cwss_categories
path  cwss_categories.csv
format  csv

Category abbreviations used in CWSS units (regiments).

• “SCharacter”: Abbreviations used in the CWSS units (regiments) column special
• “Unitype”: Abbreviations used in the CWSS units (regiments) column type
• “Function”: Abbreviations used in the CWSS units (regiments) column func

This is a slightly modified version of the CWSS database table Category.

Sources:

Schema

category | string | category
abbr    | string | abbr
description | string | Description

category

title  category
type  string
format  default
constraints
enum  ['SCharacter', 'Unitype', 'Function']
If “SCharacter”, an abbreviation for the column special (special units). If “Function”, an abbreviation for the column function (function of the unit). If “Unitype”, an abbreviation fo the column type in CWSS units (regiments).

**abbr**

- **title**: abbr
- **type**: string
- **format**: default
- **constraints**
  - **minLength**: 1
  - **maxLength**: 1
  - **pattern**: [A-Z0]

Abbreviations appearing in columns special, function, and type of the table CWSS units (regiments).

**description**

- **title**: Description
- **type**: string
- **format**: default
CWSS battle data: principal commanders

name cwss_commanders
path cwss_commanders.csv
format csv

Principal commanders of the battles in the CWSS database. Each side in a battle in CWSS battle data: battles has one or more commanders. These commanders are largely the same as those in CWSAC Report (1993) battle data: commanders and CWSAC Report Updates: commanders with some differences for unknown reasons.

This data was extracted from the CWSS database file battle.xml.
Sources: [CWSS]

Schema

<table>
<thead>
<tr>
<th>BattlefieldCode</th>
<th>string</th>
<th>Battlefield code</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>commander_number</td>
<td>integer</td>
<td>Commander number</td>
</tr>
<tr>
<td>commander</td>
<td>string</td>
<td>Commander ID</td>
</tr>
</tbody>
</table>

BattlefieldCode

title Battlefield code
type string
format default
constraints
  minLength 5
  maxLength 6
pattern  \[A-Z][0-9][A-Z]\?

CWSAC battle identifier

**belligerent**

- **title**  belligerent
- **type**  string
- **format**  default
- **constraints**
  - **enum**  ['US', 'Confederate', 'Native American']

**commander_number**

- **title**  Commander number
- **type**  integer
- **format**  default

Number of the commander for each side? This does not indicate relative rank of the commanders, but is to serve as a unique ID of the commander when there are multiple commanders on a side in a battle.

**commander**

- **title**  Commander ID
- **type**  string
- **format**  uuid

Unique commander identifier corresponding to the PersonID in **CWSS people**.
CWSS battle data: forces

- **name**: cwss_forces
- **path**: cwss_forces.csv
- **format**: csv

Force strength and casualty data from the CWSS database. This was extracted from the CWSS database file `battle.xml`. Sources: [CWSS](#)

### Schema

<table>
<thead>
<tr>
<th>BattlefieldCode</th>
<th>string</th>
<th>BattlefieldCode</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>TroopsEngaged</td>
<td>integer</td>
<td>Troops engaged</td>
</tr>
<tr>
<td>Casualties</td>
<td>integer</td>
<td>Casualties</td>
</tr>
</tbody>
</table>

**BattlefieldCode**

- **title**: BattlefieldCode
- **type**: string
- **format**: default
- **constraints**
  - **minLength**: 5
  - **maxLength**: 6
  - **pattern**: [A-Z][2][0-9][3][A-Z]?
CWSAC battle identifier

**belligerent**

- **title**: belligerent
- **type**: string
- **format**: default
- **constraints**
  - **enum**: ['US', 'Confederate', 'Native American']

**TroopsEngaged**

- **title**: Troops engaged
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Number of troops engaged. A value of “0” means missing.

**Casualties**

- **title**: Casualties
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Number of troops engaged. A value of “0” can mean either missing or that there were zero casualties.
People appearing in the CWSS data. Each observation is a person. These are mostly commanders of battles in CWSS battle data: principal commanders.

This is a modified version of the CWSS database file persons.xml.

Sources: [CWSS]

### Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>PersonID</td>
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<tr>
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<td>LastName</td>
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<tr>
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<td>string</td>
<td>Suffix</td>
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<td>FirstName</td>
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<tr>
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</tr>
<tr>
<td>NarrativeLink2</td>
<td>string</td>
<td>NarrativeLink2</td>
</tr>
</tbody>
</table>

### PersonID

- **title** PersonID
type  string
format  uuid

ID

title  ID
type  integer
format  default

LastName

title  LastName
type  string
format  default

Suffix

title  Suffix
type  string
format  default

FirstName

title  FirstName
type  string
format  default

MiddleName

title  MiddleName
type  string
format  default

MiddleInitial

title  MiddleInitial
type  string
format  default
Rank

title Rank
type string
format default

Bio

title Bio
type string
format default

BioSource

title BioSource
type string
format default

NarrativeLink1

title NarrativeLink1
type string
format default

NarrativeLink2

title NarrativeLink2
type string
format default
CWSS people data: keywords

name  cwss_people_keywords
path  cwss_people_keywords.csv
format  csv

Sources:

Schema

<table>
<thead>
<tr>
<th>PersonID</th>
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<tbody>
<tr>
<td>Keyword</td>
<td>string</td>
<td>Keyword</td>
</tr>
</tbody>
</table>

PersonID

title  PersonID
type  string
format  uuid

CWSS person identifier. See CWSS people.

Keyword

title  Keyword
type  string
format  default
CWSS units (regiments)

name cwss_regiments_units
path cwss_regiments_units.csv
format csv

List of combat units. These are mostly, but not exclusively, regiments, and are the units appearing in battles in CWSS battle data: units engaged.

This is a modified version of the CWSS database table Unitz.

Sources:

**Schema**

<table>
<thead>
<tr>
<th>unit_code</th>
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<tr>
<td>state</td>
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<td>ordinal</td>
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</tr>
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<tr>
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</tr>
<tr>
<td>unit_name</td>
<td>string</td>
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<tr>
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<td>string</td>
<td>Notes</td>
</tr>
<tr>
<td>func</td>
<td>string</td>
<td>func</td>
</tr>
</tbody>
</table>

**unit_code**

- **title** unit_code
- **type** string
format: default

side

title: Side
type: string
format: default
constraints:
   enum: ['US', 'Confederate']

Side of each force

state

title: State
type: string
format: default
constraints:
   minLength: 2
   maxLength: 2
   pattern: [A-Z]{2}

Home state of the unit. This includes codes for “non-states”, e.g. US for US Colored troops, and UR for US Regular Army. See CWSS unit state names for the abbreviations.

ordinal

title: ordinal
type: string
format: default

Ordinal number of the unit, if any. E.g. 1 for the 1st New York Infantry Regiment.

type

title: Type
type: string
format: default

Type (size) of the unit. E.g. regiment, company, battalion, squadron. See CWSS unit category abbreviations for the abbreviations.
special

title Special
type string
format default

Codes for special units, e.g. Marine, Home Guard, Heavy Artillery, Light Artiller, State. See CWSS unit category abbreviations for the abbreviations.

duplicate

title duplicate
type number
format default

ethnic

title ethnic
type string
format default

Indicator for “ethnic” units: C if colored, I if Native American. See CWSS unit category abbreviations for the abbreviations.

unit_name

title Unit name
type string
format default

notes

title Notes
type string
format default

func

title func
type string
format default

Unit function. This column is practically a duplicate of arm; I am unsure of the difference.
CWSS unit state names

name cwss_state_names
path cwss_state_names.csv
format csv

Descriptions of the unit type associated with the state abbreviations of units in *CWSS battle data: units engaged* column *state*.

This is a modified version of the CWSS database table *State_Name*.

Sources:

**Schema**

<table>
<thead>
<tr>
<th>abbr</th>
<th>string</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string</td>
<td>Name</td>
</tr>
</tbody>
</table>

**abbr**

- **title** Abbreviation
- **type** string
- **format** default
- **constraints**
  - **minLength** 2
  - **maxLength** 2
  - **pattern** [A-Z]{2}
name

title Name
type string
format default
Theaters of the war used in CWSS battle data: battles. The National Park Service divides the American Civil War into five theaters: Eastern, Western, Lower Seaboard, Trans-Mississippi, and Pacific. This data was extracted from the CWSS database file battle.xml.

Sources: [CWSS]

### Schema

<table>
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<tbody>
<tr>
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<td>cwss_theaters.csv</td>
</tr>
<tr>
<td>format</td>
<td>csv</td>
</tr>
</tbody>
</table>

Theaters of the war used in CWSS battle data: battles. The National Park Service divides the American Civil War into five theaters: Eastern, Western, Lower Seaboard, Trans-Mississippi, and Pacific. This data was extracted from the CWSS database file battle.xml.

Sources: [CWSS]

### Schema

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>TheaterName</td>
<td>string</td>
<td>Theater name</td>
</tr>
</tbody>
</table>

**TheaterCode**

<table>
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<th>Theater code</th>
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</thead>
<tbody>
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<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

**TheaterName**

<table>
<thead>
<tr>
<th>title</th>
<th>Theater name</th>
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</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>
CWSS Unit Titles

name cwss_unit_titles
path cwss_unit_tiles.csv
format csv

Sources:

**Schema**

<table>
<thead>
<tr>
<th>state</th>
<th>string</th>
<th>state</th>
</tr>
</thead>
<tbody>
<tr>
<td>side</td>
<td>string</td>
<td>side</td>
</tr>
<tr>
<td>title</td>
<td>string</td>
<td>Unit Title</td>
</tr>
</tbody>
</table>

**state**

- title state
- type string
- format default
- constraints
  - pattern [A-Z]{2}

2-letter abbreviation of the state or unit type. This includes more than states, e.g. US for Union Colored troops, and UR for Union regular army.

**side**

- title side
type string
format default

title

title Unit Title
type string
format default

Unit type
Dyer (1908) list of battles

name  dyer_engagements
path  dyer_engagements.csv
format  csv

Engagements and casualties in Frederick Dyer *Compendium of the War of the Rebellion* (1908)

This contains the engagements listed in Dyer’s *Compendium*, “Part II: Chronological Arrangement of the Campaigns, Battles, Engagements, Actions, Combats, Sieges, Skirmishes, Etc., in the United States, Connected with the War of the Rebellion, 1861 to 1865.” Dyer’s list is a tabular version of the engagements reported in the *Official Records of the War of the Rebellion*. For each engagement it notes the location, type of engagement (action, skirmish, etc.), Union units engaged in the action, and Union casualties. It does not provide any information.

Dyer’s description of the engagements was as follows (p. 581),

Campaigned, Battles, Engagements, Skirmishes, etc. showing Union troops engaged in each event.

This list shows loss of only such campaigns, battles, skirmishes, etc., as were, in this particular, officially reported. The losses of many actions, skirmishes, etc. occurring in the various campaigns were included in the final statement of the campaign, making it impossible to give accurately the loss in each event. Many of the skirmishes and other events show no loss whatever, or report none. All important campaigns, battles, raids, etc., will be found on this list, however, showing losses as officially reported.

The data for events 1-9570 were extracted from the digitalized version of the battles in Tufts University’s Perseus Digital Library. This corresponds to pages 662-991 of Dyer’s *Compendium*, ignoring indexes.

Events 9570+ were entered by hand from the original copy of Dyer’s Compendium since the Perseus digitalized version of Dyer’s Compendium did not include entries for events in “The Territories” and “Miscellaneous” (p. 984–991).

Sources: [DyerBattles], [dyer1908_war_rebel]
Schema

<table>
<thead>
<tr>
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<th>battle_id</th>
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</thead>
<tbody>
<tr>
<td>event_type</td>
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<td>state</td>
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<td>State</td>
</tr>
<tr>
<td>year</td>
<td>integer</td>
<td>Year</td>
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<tr>
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<td>Battle Name</td>
</tr>
<tr>
<td>start_date</td>
<td>date</td>
<td>Start Date</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>End date</td>
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<td>Text</td>
</tr>
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<tr>
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<td>Killed</td>
</tr>
<tr>
<td>wounded</td>
<td>integer</td>
<td>Wounded</td>
</tr>
<tr>
<td>killed_wounded</td>
<td>number</td>
<td>Killed or Wounded</td>
</tr>
<tr>
<td>missing_captured</td>
<td>number</td>
<td>Missing Captured</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** battle_id
- **type** integer
- **format** default

**event_type**

- **title** Event type
- **type** string
- **format** default

Event type: action, skirmish, siege, etc

**state**

- **title** State
- **type** string
- **format** default
- **constraints**
  - **pattern** [A-Z][2]

State in which the event occurred. This uses the standard two letter abbreviations with the following exceptions.

- “DT”: Dakota Territory
- “OK”: anachronistically used for the Indian Territory
- “FR”: France
- “MX”: Mexico

Chapter 48. Dyer (1908) list of battles
year

title  Year

type  integer

format  default

constraints

minimum  1860

maximum  1865

Year of the event.

battle_name

title  Battle Name

type  string

format  default

start_date

title  Start Date

type  date

format  default

end_date

title  End date

type  date

format  default

text

title  Text

type  string

format  default

Original text of the engagement, including the Union forces involved.

casualties

title  Casualties

type  integer

format  default

constraints
minimum 0

Union casualties (killed, wounded, and missing or captured).

**killed**

title  Killed
type   integer
format default
constraints
    minimum 0

Union killed

**wounded**

title  Wounded
type   integer
format default
constraints
    minimum 0

Union wounded

**killed_wounded**

title  Killed or Wounded
type   number
format default
constraints
    minimum 0

Union killed or wounded

**missing_captured**

title  Missing Captured
type   number
format default
constraints
    minimum 0

Union missing or captured
Chronology of Some Important Civil War Dates from Eicher and Eicher (2001)

name eicher_chronology
path eicher_chronology.csv
format csv


The description of events including in this list is

> Most military expeditions, reconnaissances, and raids are listed under the > place names of locations involved rather than by the commanders’ names. > Roman numerals are appended to non-successive events which are known by the > same name, such as Bull Run I (1861) and Bull Run II (1862); alternate names > and related actions are placed in parentheses. A survey of Civil War > chronologies yields at least thirty types of military operations between the > opposing forces ranging from battles and engagements to skirmishes and raids. > These types of operations are neither precisely defined nor carefully > differentiated, but yield a total of more than 11,000 military actions, > probably closer to 8,000 when duplications are removed. > An approximation by years gives the following distribution: 1861 (7%), 1862. > (2.5%), 1863 (2.8%), 1864 (34%), and 1865 (6%).

Sources: [Eicher2001]

Schema

<table>
<thead>
<tr>
<th>date</th>
<th>event</th>
<th>superevent</th>
<th>subevent</th>
</tr>
</thead>
<tbody>
<tr>
<td>date</td>
<td>string</td>
<td>string</td>
<td>string</td>
</tr>
</tbody>
</table>
date

title Date

type date

format default

event

title Event

type string

format default

Description of the event.

superevent


title superevent

type string

format default

subevent


title subevent

type string

format default
Eicher table of unit sizes

name eicher_units_table
path eicher_units_table.csv
format csv

Sources: [eicher2002civil]

Schema

<table>
<thead>
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<th>Column</th>
<th>Type</th>
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<tr>
<td>infantry</td>
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</tr>
<tr>
<td>unit type</td>
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<tr>
<td>low</td>
<td>integer</td>
</tr>
<tr>
<td>high</td>
<td>integer</td>
</tr>
<tr>
<td>avg</td>
<td>number</td>
</tr>
<tr>
<td>mode</td>
<td>integer</td>
</tr>
<tr>
<td>page</td>
<td>integer</td>
</tr>
</tbody>
</table>

belligerent

- title belligerent
- type string
- format default

infantry

- title infantry
type integer
format default

**unit type**

title unit type
type string
format default

**low**

title low
type integer
format default

**high**

title high
type integer
format default

**avg**

title avg
type number
format default

**mode**

title mode
type integer
format default

**page**

title page
type integer
format default

Page number in Eicher and Eicher (2002)
Fox (1898) battle casualties (revised)

name fox_forces
path fox_forces.csv
format csv

Data from William F. Fox *Regimental Losses in the American Civil War, 1861-1865: A Treatise on the extent and nature of the mortuary losses in the Union regiments, with full and exhaustive statistics compiled from the official records on file in the state military bureaus and at Washington*, Chapter 14 “The Greatest Battles of the War, list of victories and defeats, chronological list of battles with loss in each, Union and Confederate”, p. 543–.

Available from Perseus. The unit of observation is the force (battle, belligerent), because the reporting of casualties for durations and locations differs between the Union and Confederate forces.

This data is similar to *Fox (1898) battle casualties (revised)*, but differs in some revisions, which largely come from the notes in the source table.

- removed aggregate rows for Union casualties in Atlanta Campaign and Seven Day’s Battle
- fn 8. Split Chancellorsville into casualties for Chancellorsville (VA032) and VA033 VA034
- fn 24. Split Chattanooga into Orchard’s Knob on 11/23, Lookout Mountain on 11/24 and Missionary Ridge on 11/25. The footnote only gives total casualties for 11/23 and 11/24, so I assume a constant proportion of K/W/M for all days.
- fn 25. Split Atlanta Campaign into the components in the footnote. Remainder is assigned to “Lattimore’s Mill; Powder Springs, etc”.
- fn 27. Split Atlanta Campaign into the components in the footnote. It’s unclear which entries to assign to the Marietta Operations.
- fn 28. Split Atlanta campaign into the components in the footnote. Remainder assigned to the Siege of Atlanta. I’m not sure what the Siege of Atlanta refers to so I assign it to the Jonesboro (GA020) and Lovejoy Station (GA021)
- Split Spotsylvania into the components in the footnote.
- fn 29. The note says Jonesboro and Lovejoy Station, but Jonesboro happened on Aug 20, so it cannot be included in this row.
• fn 70. Split Seven Days Battle into the component battles.
• fn 74. Added the 90 casualties from White’s battalion.

Fox lists alternate casualty figures for Confederates at Gettysburg that I don’t use.

The records on file at Washington bear the names of 6,802 wounded, and 5,425 unwounded Confederates captured at Gettysburg. The official reports of Longstreet, Ewell, Hill, and Stuart indicate a loss (after making necessary deductions) of 2,701 killed, 12,739 wounded, 7,528 missing; total, 22,968.

See Fox (1898) battle casualties (revised) for more detail on the Fox data.

• Union and Confederate casualties for Front Royal and Winchester, Va. (1862-5-23 to 1862-5-25) combines the battles of Front Royal (1862-5-23) and Winchester I (1862-5-25)
• Union and Confederate casualties for Manassas, Va. (1862-8-16 to 1862-8-31) combines battles from Rappahannock through
• Union entry for Marye’s Heights and Salem Church (1863-5-3 to 1863-5-4) combines the battles of Fredericksburg II and Salem Church
• Union casualties are given for the entire Siege of Suffolk, Va. (1863-4-11 to 1863-4-30) which includes VA030 and VA031
• For Vicksburg, Union casualties are divided into
  – Assault on Vicksburg, Miss. (1863-5-19)
  – Assault on Vicksburg, Miss. (1863-5-22)
  – Vicksburg Trenches, Miss. (1863-5-23 to 1863-7-4)
• For Port Hudson, Union casualties are divided into
  – Assault on Port Hudson, La. (1863-5-27)
  – Assault on Port Hudson, La. (1863-6-14)
  – Port Hudson Trenches, La. (1863-5-26 to 1863-7-9)
• Morgan’s Raid, Ky. (1863-7-2 to 1863-7-26) includes several battles
• U120: Siege of Fort Wagner, S. C. (1863-7-1 to 1863-7-31) does not quite correspond to any of the CWSAC Charleston battles.
• Union casualties for Spotsylvania Court house are given for the entire battle: and on separate days.
  – Spotsylvania, Va. (1864-5-8 to 1864-5-21)
  – Alsop’s Farm (Spotsylvania) (1864-5-8)
  – Po River, Laurel Hill, and Upton’s Charge (Spotsylvania) (1864-5-10)
  – Hancock’s Assault, the “Angle”, and general attack of May 12 (Spotsylvania) (1864-5-12)
  – Spotsylvania (Spotsylvania) (1864-5-18)
  – Fredericksburg Pike (Spotsylvania) (1864-5-19)
  – Todd’s Tavern; Corbin’s Bridge; Ny River; Guinea Station etc. (Spotsylvania) (1864-5-8 to 1864-5-21)
• Wilson’s Raid, Va. (1864-6-22 to 1864-6-29) includes several battles
• Union casualties for Smithfield Crossing (WV015) are given for separate days. Battles of Halltown, VA on Aug 24 and Aug 26 may also be part of this battle, but it is unclear if they are the same engagement.
• Union casualties for Wilmington (NC016) is split into
  – Sugar Loaf Battery, N. C. (1865-2-11)
- Town Creek, N. C. (1865-2-20)

- Union Casualties for Fort Stedman, VA (1865-03-25) [VA084] is split into
  - Fort Stedman, Va. (1865-3-25)
  - Petersburg, Va. (1865-3-25)

- Union casualties for Chattanooga III, TN (1863-11-23 to 1863-11-25) [VA024] is split into
  - Missionary Ridge (Chattanooga, Tenn) (1863-11-25)
  - Orchard Knob (Chattanooga, Tenn) (1863-11-23)
  - Lookout Mountain (Chattanooga, Tenn) (1863-11-24 to 1865-11-24)

- Confederate casualties for Maryland Campaign, Md (1862-9-12 to 1862-9-20) combines several battles.

- Confederate casualties for Corinth, Miss. (1862-10-3 to 1862-10-5) includes both Corinth [MS002], and the battle of Hatchie’s Bridge [TN007] on Oct 5th. These Union casualties only includes the Battle of Corinth (Oct 3-4, 1862).

- Confederate casualties for Springfield; Hartsville, Mo. (1863-1-2 to 1863-1-11) combines the battles of Springfield (Jan 8) [MO018] and Hatville (Jan 9-11) [MO019]. Union casualties are given separately for each battle.

Sources: [fox1898regimental]

### Schema

**Primary Key** ['battle_id']

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<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>battle_id</td>
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<td>Battle Id.</td>
</tr>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>battle_name</td>
<td>string</td>
<td>Battle name</td>
</tr>
<tr>
<td>start_date</td>
<td>date</td>
<td>start_date</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>end_date</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>State</td>
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<tr>
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<td>integer</td>
<td>wounded</td>
</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>comment</td>
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<td>comment</td>
</tr>
<tr>
<td>from_footnote</td>
<td>boolean</td>
<td>from_footnote</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** Battle Id.
- **type** string
- **constraints**
  - **pattern** [UC][1-9][A-Z]?

Unique battle identifier.
belligerent

  title belligerent
  type string
  format default
  constraints
    enum ['Confederate', 'US']

battle_name

  title Battle name
  type string
  format default

start_date

  title start_date
  type date
  format default
Start date of the battle

end_date

  title end_date
  type date
  format default
End date of the battle

state

  title State
  type string
  format default
  constraints
    minLength 2
    maxLength 2
    pattern [A-Z]{2}
State in which the battle took place.
**killed**

- **title**: Killed
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Number killed

**wounded**

- **title**: wounded
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Number wounded

**missing**

- **title**: missing
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Number missing

**casualties**

- **title**: casualties
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Number of casualties (killed, wounded, and missing)
aggregates_battles

  title  aggregates_battles
  type  string
  format  default

For observations that aggregate battles from a campaign, the IDs of those observations. The IDs are space separated.

comment

  title  comment
  type  string
  format  default

Comments attached to the observation. These are generally footnotes from the original source.

from_footnote

  title  from_footnote
  type  boolean
  format  default

Was this observation derived from notes in a footnotes?
Correspondence *fox_forces* and CWSAC battles

```
name  fox_forces_to_cwsac
path  fox_forces_to_cwsac.json
format json
```

Correspondence between the observations in the revised Fox battle data (*Fox (1898) battle casualties (revised)*) and the battle identifiers used by the National Park Servie CWSAC (e.g. *CWSAC Report battle data: battles*).

Sources: [fox1898regimental]
Fox (1898) battle outcomes

name fox_outcomes
path fox_outcomes.csv
format csv

Battle outcome from William F. Fox *Regimental Losses in the American Civil War, 1861-1865: A Treatise on the extent and nature of the mortuary losses in the Union regiments, with full and exhaustive statistics compiled from the official records on file in the state military bureaus and at Washington*. Chapter 14 “The Greatest Battles of the War, list of victories and defeats, chronological list of battles with loss in each, Union and Confederate”. Available from Perseus.

Fox categorizes battles by their outcome for a subset of those battles for which casualty figures are provided, in *Fox (1898) battle casualties (revised)*. In some cases, the battle definitions are slightly different.

In Chapter 14, p. 541-543 Fox has several tables classifying battles into victories for each side. Both his categories and classifications are similar to Livermore (1900).

In connection with these matters the question naturally arises,—Which were victories, and which were defeats?

To answer fairly and without prejudice would only invite bitter and senseless criticism from both sides. It is too soon to attempt any discussion of this much vexed topic. Still, there are certain conceded facts relative to this matter which one might venture to recall to mind. They may be premised with the military axioms,—that when an army retains possession of the battle field and buries its enemy’s dead, it certainly cannot be considered as a defeated army; and that when an army abandons the field, either slowly or in rout, and leaves its dead and wounded in the hands of the enemy, it certainly should not claim a victory.

Fox classifies battle outcomes into the following five categories,

In the following named battles the Union armies remained in undisturbed possession of the field, the enemy leaving many of their wounded, and most of their dead unburied

The Union armies were successful, also, in the following assaults. They were the attacking party, and carried the forts, or intrenched positions, by storm.

In the following battles, the Confederates remained in undisturbed possession of the field, the Union armies leaving its unburied dead and many of its wounded in their hands:
In the following assaults the Confederates successfully repulsed the attacks of the enemy.

In the following assaults, or sorties, the Confederates were the attacking party, and were repulsed.

With regards to battles not considered, Fox writes,

Other instances on each side could be mentioned, but they would invite discussion and are better omitted.

Sources: [fox1898regimental]

**Schema**

<table>
<thead>
<tr>
<th>victor</th>
<th>string</th>
<th>Victor</th>
</tr>
</thead>
<tbody>
<tr>
<td>victory_type</td>
<td>string</td>
<td>Victory type</td>
</tr>
<tr>
<td>battle_name</td>
<td>string</td>
<td>Battle name</td>
</tr>
<tr>
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<td>string</td>
<td>State</td>
</tr>
<tr>
<td>cwsac_id</td>
<td>string</td>
<td>CWSAC Id.</td>
</tr>
</tbody>
</table>

**victor**

- title Victor
- type string
- format default
- constraints
  - enum ['Union', 'Confederate']

**victory_type**

- title Victory type
- type string
- format default
- constraints
  - enum ['victory', 'assualt', 'defense']

**battle_name**

- title Battle name
- type string
- format default

**state**

- title State
- type string
format  default

constraints
    minLength  2
    maxLength  2
    pattern  \[A-Z]\{2\}

cwsac_id

title  CWSAC Id.
type  string
format  default

constraints
    pattern  \[A-Z]\{2\}\[0-9]\{3\}\[A-Z]?

Battle identifier in CWSAC (*CWSAC Report battle data: battles*).
Sources: [*fox1898regimental*]
Weekly casualty data from Greer “Counting Casualties Week-by-Week”

**name**  greer2005_weekly_casualties
**path**  greer2005_weekly_casualties.csv
**format**  csv

Weekly casualties from Greer (2005) *Counting Casualties Week by Week*


Sources: [Greer2005]

**Schema**

<table>
<thead>
<tr>
<th>date</th>
<th>date</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>string</td>
<td>Description</td>
</tr>
<tr>
<td>confederate</td>
<td>number</td>
<td>Confederate casualties</td>
</tr>
<tr>
<td>union</td>
<td>integer</td>
<td>Union casualties</td>
</tr>
<tr>
<td>theater</td>
<td>string</td>
<td>theater</td>
</tr>
<tr>
<td>cwsac_id</td>
<td>string</td>
<td>Cwsac Id.</td>
</tr>
<tr>
<td>cwsac_battle_name</td>
<td>string</td>
<td>Cwsac Battle Name</td>
</tr>
</tbody>
</table>

**date**

<table>
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<th>title</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>date</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>
Casualties are given by week. This is the first day of that week period.

**description**

- **title**: Description
- **type**: string
- **format**: default

Description of the casualties. This can either be a battle or “attrition” (for non-battle casualties).

**confederate**

- **title**: Confederate casualties
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0

**union**

- **title**: Union casualties
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

**theater**

- **title**: theater
- **type**: string
- **format**: default
- **constraints**
  - **enum**: ['Lower Seaboard', 'Trans-Mississippi', 'Eastern', 'Western']

Theater in which the combat casualties occurred.

**cwsac_id**

- **title**: Cwsac Id.
- **type**: string
- **format**: default

CWSAC battle associated with the casualties.
**cwsac_battle_name**

- **title**: Cwsac Battle Name
- **type**: string
- **format**: default

Name of the CWSAC battle associated with the casualties.
Civil War Battlefield Guide data: battles

name  kennedy1997_battles
path  kennedy1997_battles.csv
format  csv

Kennedy (1997) battle data

Data from


The battles in this source correspond to the CWSAC battles and have use the same identifiers. However, in a few cases, casualty totals for several battles are aggregated.

Although Kennedy largely follows the CWSAC battle definitions, there are a few differences:

• In several battles, although the descriptions and battle-level data are separate, the casualties are combined.
  – VA031 includes VA030, VA031
  – VA032 includes VA033, VA033, VA035
  – VA038 includes VA036, VA037, VA038
• VA112 “Battle of St. Mary’s Chuch” is VA066 in CWSAC.

Corrections:

• The casualties for US and CS forces were inverted for TX005.

Sources: [KennedyConservation1998]

Schema

Primary Key ['battle_id']
### battle_id

- **title**: Battle
- **type**: string
- **format**: default
- **constraints**
  - `minLength`: 5
  - `maxLength`: 6
  - `pattern`: `[A-Z]{2}[0-9]{3}[A-Z]?`

Battle identifier

### battle_name

- **title**: Battle name
- **type**: string
- **format**: default

### state

- **title**: state
- **type**: string
- **format**: default
- **constraints**
  - `minLength`: 2
  - `maxLength`: 2
  - `pattern`: `[A-Z][A-Z]`

### county

- **title**: county
- **type**: string
Counts in which the battle took place.

### start_date
- **title**: Start Date
- **type**: date
- **format**: default

### end_date
- **title**: End Date
- **type**: date
- **format**: default

### casualties_min
- **title**: Casualties (min)
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Total casualties (killed, wounded, and missing or captured) for both sides, minimum value. For a few battles a total casualty value is given, while no disaggregated casualties are provided. This source only gives a range for a few battles. For battles where no range is given, the minimum and maximum are set to the same value.

### casualties_max
- **title**: Casualties (max)
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

Total casualties (killed, wounded, and missing or captured) for both sides, maximum value.

### casualties_text
- **title**: Casualties
- **type**: string
- **format**: default
cwsac_id

   title  CWSAC Id
   type   string
   format default
   constraints
      pattern  [A-Z][0-9][A-Z]?

CWSAC battle identifiers of the battles. These are almost the same as the Kennedy identifiers with a few exceptions. All battles are one-to-one mappings onto the CWSAC battles.
Civil War Battlefield Guide data: forces

- **name**: kennedy1997_forces
- **path**: kennedy1997_forces.csv
- **format**: csv

Kennedy (1997) casualty data


Sources: [KennedyConservation1998]

**Schema**

**Primary Key** ['battle_id', 'belligerent']

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>battle_id</td>
<td>string</td>
<td>Battle</td>
</tr>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>casualties_min</td>
<td>integer</td>
<td>Casualties (min)</td>
</tr>
<tr>
<td>casualties_max</td>
<td>integer</td>
<td>Casualties (max)</td>
</tr>
<tr>
<td>killed_wounded_min</td>
<td>integer</td>
<td>Killed or Wounded (min)</td>
</tr>
<tr>
<td>killed_wounded_max</td>
<td>integer</td>
<td>Killed or Wounded (max)</td>
</tr>
<tr>
<td>missing</td>
<td>integer</td>
<td>Missing or captured</td>
</tr>
<tr>
<td>aggregate</td>
<td>boolean</td>
<td>Is aggregate?</td>
</tr>
<tr>
<td>battles_aggregated</td>
<td>string</td>
<td>Battles aggregated</td>
</tr>
</tbody>
</table>

**battle_id**

- **title**: Battle
- **type**: string
format default

constraints
    minLength 5
    maxLength 6
    pattern [A-Z]{2}[0-9]{3}[A-Z]? 

Battle identifier These are almost the same as the Kennedy identifiers with a few exceptions. See the field cwsac_id for the CWSAC identifier.

belligerent

title belligerent

type string

format default

constraints
    enum ['US', 'Confederate', 'Native American']

casualties_min

title Casualties (min)

type integer

format default

constraints
    minimum 0

Casualties (killed, wounded, and missing or captured), minimum value. This source only gives a range for a few battles. For battles where no range is given, the minimum and maximum are set to the same value.

casualties_max

title Casualties (max)

type integer

format default

constraints
    minimum 0

Casualties (killed, wounded, and missing or captured), maximum value.

killed_wounded_min

title Killed or Wounded (min)

type integer

format default
This source only gives a range for a few battles. For battles where no range is given, the minimum and maximum are set to the same value.

**killed_wounded_max**

- **title**: Killed or Wounded (max)
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

**missing**

- **title**: Missing or captured
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0

**aggregate**

- **title**: Is aggregate?
- **type**: boolean
- **format**: default

True if the casualties data for the battle aggregates the casualties for several battles.

**battles_aggregated**

- **title**: Battles aggregated
- **type**: string
- **format**: default

In a few battles the casualties include several battles. In these cases the identifiers are space separated.
Mapping between Kennedy (1997) data on forces and CWSAC battles

**name**  kennedy1997_forces_to_cwsac
**path**  kennedy1997_forces_to_cwsac.json
**format**  json

Sources:
Size of the Union and Confederate Armies (Livermore, 1900)

The table of the aggregate size of the Union and Confederate armies over time. The data come from Table “Comparison of the Foregoing Numbers with the Number on the Union Rolls at the Same Date”, on p. 47.

While good documentation is available on the total number of troops serving in the Union military, there is no comparable documentation on the total number of troops serving in the Confederate military. Livermore devotes p. 1-49 to developing the estimates of the size of Confederate Forces which are reported in this table.

The data exclude the columns with averages, and the size of the Confederate army as a percent of the Union army since they can be calculated from the column with the number in each army at each date.

Sources: [Livermore1900]

Schema

<table>
<thead>
<tr>
<th>date</th>
<th>date</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>union_number</td>
<td>integer</td>
<td>No. on Union Rolls</td>
</tr>
<tr>
<td>confederate_number</td>
<td>integer</td>
<td>No. on Confederate Returns</td>
</tr>
</tbody>
</table>

date

title date
type date
format default
American Civil War Battle Data Documentation, Release 5.0.1

union_number

title  No. on Union Rolls

type  integer

format  default

confederate_number

title  No. on Confederate Returns

type  integer

format  default
Livermore (1900) battle data: battle list

name  livermore_battles
path  livermore_battles.csv
format  csv

Battle data from Livermore (1900) *Number and Losses in the Civil War in America, 1861-1865*. Livermore discusses his methodology on pp. 63-77. The sample of battles he uses is all battles in which either side had losses, killed wounded, greater than 1,000.

Livermore is concerned with determining the actual number of troops engaged in battle, i.e. those that actually participated. The majority of the book is devoted to the calculations of the values of the strengths of the forces in each battle.

When discussing the categorization of battles into victories and defeats, Livermore writes,

> For further comparison of losses under similar conditions, the 63 battles of Table B may be classified as follows, although discrimination must be made between those which are styled defeats, because some are ranged under this head merely because the field was abandoned; when considered tactically, the retreating army was successful in the battle itself.

Some quirks of the data:

- The Appomattox Campaign is treated as a single battle: Appomattox Campaign, March 29-April 9, 1865
- There is an entry for the full Seven Days Battles (June 25-July 1, 1862) as well as separate entries for
  - Mechanicsville, June 26, 1862
  - Gaines’s Mill, June 27, 1862
  - Peach Orchard, Savage Station, June 29, 1862. White Oak Swamp, Glendale, June 30, 1862. Malvern Hill, July 1, 1862
- There are battles for the Assaults on Port Hudson (May 27 and June 14, 1863), but no entry for the entire Siege of Port Hudson. This means that these battles are coded as Confederate victories since the Union failed in these assaults, even though it won the siege.
• There is a battle for the Assault on Vicksburg (May 22, 1863), but no entry for the entire Siege. This means that Vicksburg is coded as a Confederate victory since the Union failed in the assault, even though it won the siege.

• There are separate battles for different days of Spottsylvania (May 10, 12, 1864)

• There is a single battle for the Atlanta Campaign, May, 1864.

Sources: [Livermore1900], [ACAA1994]

Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>integer</th>
<th>battle_id</th>
</tr>
</thead>
<tbody>
<tr>
<td>par_id</td>
<td>integer</td>
<td>par_id</td>
</tr>
<tr>
<td>battle_name</td>
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<td>Battle name</td>
</tr>
<tr>
<td>page</td>
<td>integer</td>
<td>page</td>
</tr>
<tr>
<td>start_date</td>
<td>date</td>
<td>Start date</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>End date</td>
</tr>
<tr>
<td>attacker</td>
<td>string</td>
<td>attacker</td>
</tr>
<tr>
<td>result</td>
<td>string</td>
<td>result</td>
</tr>
<tr>
<td>assault_fortified</td>
<td>string</td>
<td>Assault on fortified lines</td>
</tr>
<tr>
<td>assault_outcome</td>
<td>string</td>
<td>Assault outcome</td>
</tr>
<tr>
<td>union_result</td>
<td>string</td>
<td>Union result</td>
</tr>
<tr>
<td>confed_result</td>
<td>string</td>
<td>Confederate result</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>theater</td>
<td>string</td>
<td>Theater</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** battle_id
- **type** integer
- **format** default

**par_id**

- **title** par_id
- **type** integer
- **format** default

**battle_name**

- **title** Battle name
- **type** string
- **format** default
Page in Livermore (1900) in which the battle description appears.

Start date

End date

Attacker

Constraints

Enum ['US', 'Confederate']

Was the Confederate or the US the attacker in the battle? This did not appear directly in Livermore (1900), but is from the PAR database.

Sources: [Livermore1900], [ACAA1994]

Result

Constraints

Enum ['US', 'Confederate']

Confederate or Union victory. This did not appear directly in Livermore (1900), but is from the PAR database.

Sources: [Livermore1900], [ACAA1994]
assault_fortified

title Assault on fortified lines
type string
format default
constraints

enum ['US', 'Confederate']

“Confederate” if it was a Confederate assault on Union fortified lines; “US” if it was a Union assault on Confederate fortified lines; missing if it was not an assault on fortified lines. This comes from the Table “Assaults on Fortified Lines” on p. 75.

assault_outcome

title Assault outcome
type string
format default
constraints

enum ['Failure', 'Success', 'Partial Success']

Assault outcome; missing if the battle was not an assault. This comes from the Table “Assaults on Fortified Lines” on p. 75.

union_result

title Union result
type string
format default
constraints

enum ['Defeat', 'Retired', 'Rout', 'Victory']

Union result for the battle. Separate Union and Confederate results are given because the results in the tables are not symmetric. In some cases, one side is missing. In some cases, even if side has a victory, the other side can have a loss or a rout. This comes from the tables “Routs”, “Victories”, and “Battles Fought to Cover a Prearranged Movement, Pursuing which the Army Retired after Repelling Attack”, on p. 76–77.

confed_result

title Confederate result
type string
format default
constraints

enum ['Defeat', 'Retired', 'Rout', 'Victory']
Confederate result of the battle. This comes from the tables “Routs”, “Victories”, and “Battles Fought to Cover a Prearranged Movement, Pursuing which the Army Retired after Repelling Attack”, on p. 76–77.

**state**

- **title**: State
- **type**: string
- **format**: default
- **constraints**
  - `minLength` 2
  - `maxLength` 2
  - `pattern` [A-Z][A-Z]

Two-letter abbreviation of the state in which the battle was fought.

**theater**

- **title**: Theater
- **type**: string
- **format**: default
- **constraints**
  - `enum` ['MW', 'ME', 'LS', 'TM']

CWSAC theater of the battle. See CWSS theaters.

Sources: [Livermore1900], [ACAA1994]
Livermore (1900) battle data: commanders

name livermore_commanders
path livermore_commanders.csv
format csv

Principal commanders of the battles listed in Livermore (1900) *Numbers and Losses in the Civil War in America*. Livermore does not directly list the principal commander of the battles. These were added for this data. They primarily follow the principal commanders for each battle given by the CWSAC (*CWSAC Report (1993) battle data: commanders*).

Sources: [jrnold]

**Schema**

<table>
<thead>
<tr>
<th>battle_id</th>
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<th>battle_id</th>
</tr>
</thead>
<tbody>
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<td>string</td>
<td>belligerent</td>
</tr>
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<td>Last Name</td>
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<td>Middle Initial</td>
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<tr>
<td>rank</td>
<td>string</td>
<td>Rank</td>
</tr>
<tr>
<td>navy</td>
<td>Was the commander in the navy? navy</td>
<td></td>
</tr>
</tbody>
</table>

**battle_id**

title battle_id
type integer
format default
belligerent

title  belligerent
type  string
format  default

constraints
  enum  ['US', 'Confederate']

PersonID

title  PersonID
type  string
format  uuid

CWSS PersonID of the commander. See CWSS people.

last_name

title  Last Name
type  string
format  default

first_name

title  First Name
type  string
format  default

middle_name

title  Middle Name
type  string
format  default

middle_initial

title  Middle Initial
type  string
format  default
rank

title  Rank

type  string

format  default

navy


title  navy

type  Was the commander in the navy?

format  default
Livermore (1900) battle data: force strengths and casualties

name livermore_forces
path livermore_forces.csv
format csv

Sources: [Livermore1900]

Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>integer</th>
<th>battle_id</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
<td>string</td>
<td>Belligerent</td>
</tr>
<tr>
<td>str</td>
<td>integer</td>
<td>str</td>
</tr>
<tr>
<td>kia</td>
<td>integer</td>
<td>Killed</td>
</tr>
<tr>
<td>wia</td>
<td>integer</td>
<td>Wounded</td>
</tr>
<tr>
<td>kw</td>
<td>integer</td>
<td>Killed or Wounded</td>
</tr>
<tr>
<td>miapow</td>
<td>integer</td>
<td>Missing or Captured</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** battle_id
- **type** integer
- **format** default

**belligerent**

- **title** Belligerent
- **type** string
American Civil War Battle Data Documentation, Release 5.0.1

```
format default
constraints
    enum ['US', 'Confederate']

str
    title str
    type integer
    format default
    constraints
        minimum 0

kia
    title Killed
    type integer
    format default
    constraints
        minimum 0
None

wia
    title Wounded
    type integer
    format default
    constraints
        minimum 0

kw
    title Killed or Wounded
    type integer
    format default
    constraints
        minimum 0
```
miapow

title Missing or Captured
type integer
format default
constraints
  minimum 0
Correspondence between Livermore (1900) battles and CWSAC battles

name  livermore_to_cwsac
path  livermore_to_cwsac.json
format  json

Sources: [Livermore1900]
List of naval battles

name  navalbattles
path  navalbattles.csv
format  csv

List of naval battles, which navies they involved, and whether they involved land fortifications. These are any battles with a naval component in *Ships in battles*.

Sources: [jrnold]

### Schema

<table>
<thead>
<tr>
<th>cwsac_id</th>
<th>string</th>
<th>CWSAC Id.</th>
</tr>
</thead>
<tbody>
<tr>
<td>confederate_ships</td>
<td>integer</td>
<td>confederate_ships</td>
</tr>
<tr>
<td>us_ships</td>
<td>integer</td>
<td>Union ships</td>
</tr>
<tr>
<td>confederate_fortifications</td>
<td>boolean</td>
<td>confederate_fortifications</td>
</tr>
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- **type**  string
- **format**  default
- **constraints**
  - **pattern**  [A-Z][2][0-9-3][A-Z]?
confederate_ships

title  confederate_ships
type  integer
format  default

us_ships

title  Union ships
type  integer
format  default
Number of Union ships (including gunships, wooden warships, ironclads, and rams; excluding transports)

confederate_fortifications

title  confederate_fortifications
type  boolean
format  default
Were any Confederate fortifications involved in the battle?

us_fortifications

title  us_fortifications
type  boolean
format  default
Were any US fortifications involved in the battle?
National Park Service combined battle data: Battle in each battle

**name**  nps_battle_units

**path**  nps_battle_units.csv

**format**  csv

Union and Confederate units in each battle.

This is a slightly edited version of the CWSS battle units data. See *CWSS battle data: units engaged*.

**Sources:**

**Schema**

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**cwsac_id**

- **title**  CWSAC Id.
- **type**  string
- **format**  default
CWSAC battle identifier

**belligerent**

- **title**: belligerent
- **type**: string
- **format**: default
- **constraints**
  - **enum**: ['US', 'Confederate']

Side of the force: Confederate or Union or Native American.

**unit_code**

- **title**: unit_code
- **type**: string
- **format**: default

**companies**

- **title**: companies
- **type**: number
- **format**: default

**batteries**

- **title**: batteries
- **type**: number
- **format**: default

**detachment**

- **title**: detachment
- **type**: number
- **format**: default
section

title section
type number
format default

added

title added
type string
format default

If true, then this was in the original CWSS data. If false, then this unit was added by the author for this dataset. Currently, the only units added were those appearing in battles omitted from the original CWSS data.

src

title Source
type string
format default

Original source for the CWSS data.

comment

title comment
type string
format default
Comparison of battles in CWSAC AAD, CWSAC Report, CWSAC Updates, and CWSS

- **name** nps_battlelist
- **path** nps_battlelist.csv
- **format** csv

List of battles included in the AAD CWSAC Reports (1990-1993), CWSAC Report Battle Summaries (1997), CWSAC Report Updates (2009-2013), and the CWSS. All these reports from the National Park Service use the same battle identifiers, but they differ slightly in their composition.

A couple notes about the set of battles in these data.

- In an update on the status of battlefields Civil War Sites Advisory Commission Report Update & Resurvey, the following changes were made.
  - AR018, Battle of Bayou Meto (Reed’s Bridge) on Aug 27, 1863 (part of the Advance on Little Rock campaign) was added. See Civil War Battlefields in the State of Arkansas - Arkansas Post to Devils Backbone.
  - SC009. Charleston Harbor. Dates changed to Aug 22-23, 1863 and Sept 5-8, 1863. This really appears to be to engagements. The assault on Fort Sumter is the only engagement referenced in the initial CWSAC report. Report Update.
    - Aug 22-23, 1863 Bombardment of Charleston by the Swamp Angel
    - Sept 5-8, 1863. Assault on Fort Sumter.
  - VA020A and VA020B combined into a single battle, Source.

Although the CWSAC identified the engagements at White Oak Swamp and Glendale as part of the same offensive, it mapped the battlefields individually. Upon further study, the ABPP decided to combine the two engagements under one Study Area.
The Civil War Battlefield Preservation Act of 2002 directed the NPS to update their 1993 battlefield surveys. The results of the resurvey are available here. These battles are largely the same as in the first CWSAC, with a few exceptions.

- Battles Glendale (VA020A) and White Oak Swamp (VA020B) were combined into a single battle.

  Upon review of the histories of the battles, the ABPP has combined White Oak Swamp (VA020a) and Glendale (VA020b) into a single entry: the overall count is one battlefield fewer, but both engagement areas are included. Update to the Civil War Sites Advisory Commission Report: Commonwealth of Virginia (p. 8).

- The Battle of Bayou Meto (AR018) was added. However, it does not appear to have been added strictly due to historical judgment of importance. No military significance or casualties is given for this battle.

  The CWSAC did not list Bayou Meto (Reed’s Bridge) as one of the principal battles of the Civil War. In 2002, however, the battlefield was listed in the National Register of Historic Places as a nationally significant historic property. Given the high level of significance conferred by the NRHP listing, the ABPP decided, as part of the fieldwork undertaken for this update, to assess conditions at Bayou Meto. ‘ Update to the Civil War Sites Advisory Commission Report: State of Arkansas <http://www.nps.gov/hps/abpp/CWSII/CWSACReportArkansasUpdate.pdf>’ (p. 8)

- The Battle of Athens (AL002) is redefined from the battle on January 26, 1863 to the battle on September 23-25, 1863. Because of this I give the new battle the code AL009. I also think that the results in the document are referring to the January battle because the September battle is unambiguously a Confederate victory.

- new variables: Acreage of the battlefield area

- revised variables: forces, principal commanders, result, battle dates

- Native American forces. Oklahoma battles OK001 (Round Mountain), OK002 (Chusto-Talasah), and OK003 (Chustenahlah) classify the Creek forces under Opothleyahola as [US] instead of [I]. In CWSAC II, the only battles involving purely Native American forces are against the Union and generally part of the Sioux Wars (Minnesota, North Dakota, Idaho). This seems reasonable, the Creek and Seminole forces in the Oklahoma battles were Union allies, while the Sioux Indian forces fighting the Union were not allied with the Confederacy.

For the most part, each CWSAC battle page corresponds to a single Wikipedia page, making linking the two easy.


The set of battles around Charleston Harbor July to September 1863 is confusingly and ambiguously defined by the CWSAC.

<table>
<thead>
<tr>
<th>cwsac</th>
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<th>result</th>
<th>cwsac I</th>
<th>cwsac II</th>
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<td>SC005</td>
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<td>C</td>
<td>7-10 to 7-11</td>
<td>7-10 to 7-11</td>
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<tr>
<td>SC007</td>
<td>Fort Wagner II</td>
<td>C</td>
<td>7-18 to 9-7</td>
<td>7-18</td>
</tr>
<tr>
<td>SC008</td>
<td>Fort Sumter II</td>
<td>I</td>
<td>8-17 to 12-31</td>
<td>8-17 to 9-8</td>
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<tr>
<td>SC009</td>
<td>Charleston Harbor II</td>
<td>C</td>
<td>9-7 to 9-8</td>
<td>8-22 to 8-23; 9-5 to 9-8</td>
</tr>
</tbody>
</table>

where cwsac I refers to the 1993 report, and cwsac II refers to the revised report.

The battles considered and the summaries from their pages are copied below.

Charleston Harbor I (SC004) occurred on April 7, 1863, and was a naval battle between Union ships and the Charleston Harbor forts.

CWSAC Fort Wagner I (SC005)

On July 10, Union artillery on Folly Island together with Rear Adm. John Dahlgren’s fleet of ironclads opened fire on Confederate defenses of Morris Island. The bombardment provided cover for Brig. Gen.
George C. Strong’s brigade, which crossed Light House Inlet and landed by boats on the southern tip of the island. Strong’s troops advanced, capturing several batteries, to within range of Confederate Fort Wagner. At dawn, July 11, Strong attacked the fort. Soldiers of the 7th Connecticut reached the parapet but, unsupported, were thrown back. http://www.nps.gov/hps/abpp/battles/sc005.htm

CWSAC Fort Wagner II (SC007)

After the July 11 assault on Fort Wagner failed, Gillmore reinforced his beachhead on Morris Island. At dusk July 18, Gillmore launched an attack spearheaded by the 54th Massachusetts Infantry, a black regiment. The unit’s colonel, Robert Gould Shaw, was killed. Members of the brigade scaled the parapet but after brutal hand-to-hand combat were driven out with heavy casualties. The Federals resorted to siege operations to reduce the fort. This was the fourth time in the war that black troops played a crucial combat role, proving to skeptics that they would fight bravely if only given the chance. http://www.nps.gov/hps/abpp/battles/sc007.htm

Fort Sumter II (SC008)

Federal batteries erected on Morris Island opened fire on August 17 and continued their bombardment of Fort Sumter and the Charleston defenses until August 23. Despite a severe pounding, Fort Sumter’s garrison held out. Siege operations continued against Fort Wagner on Morris Island. http://www.nps.gov/hps/abpp/battles/sc008.htm

CWSAC Charleston Harbor II (SC009)

During the night of September 6-7, Confederate forces evacuated Fort Wagner and Battery Gregg pressured by advancing Federal siegeworks. Federal troops then occupied all of Morris Island. On September 8, a storming party of about 400 marines and sailors attempted to surprise Fort Sumter. The attack was repulsed. http://www.nps.gov/hps/abpp/battles/sc009.htm

CWSAC II added the August bombardment of Charleston by the “The Swamp Angel” to Charleston Harbor II.

In Wikipedia


Timeline of July-September events in the 1863 siege of Charleston

- July 18. Second failed assault on Fort Wagner
- July 19 Union begins siege of Fort Wagner
- Aug 17. Batteries on Morris Island begin bombarding Fort Sumter
- Aug 22-23. Bombardment of Charleston Island by the Swamp Angel (a battery on Morris Island)
- Aug 23. Batteries on Morris Island switch bombardment to Fort Wagner.
- Sept 7. Confederates abandon Fort Wagner
- Sept 9. Union forces attempt and fail to retake Fort Sumter

It seems that the battles break down into the following periods

- July 10-11: First Battle of Fort Wagner (SC005)
- July 16: Battle of Grimball’s Landing (SC006)
• July 18: Second Battle of Fort Wagner (SC007)
• (July 19) Aug 17 - Sept 8. Second Battle of Charleston Harbor = Siege of Fort Wagner/Sumter ending with the Confederate abandonment of Fort Wagner. (SC008)
• Sept 9 : Second Battle of Fort Sumter (Failed Assault)
• Continued siege?? (SC009)

Thus, confusingly:
• SC009: Charleston Harbor is the Second Battle of Fort Sumter.
• SC008: Fort Sumter is the Second Battle of Charleston Harbor.

Sources: [CWSAC1997], [CWSAC_AAD], [CWSAC_by_state], [CWSS], [CWSII], [CWSIIAR], [CWSIICO], [CWSIIDC], [CWSIIFL], [CWSIIGA], [CWSIIIN], [CWSIIKS], [CWSIIKY], [CWSIIIA], [CWSIIIMD], [CWSIIIMN], [CWSIIDC], [CWSIIVC], [CWSIIIN], [CWSIIWH], [CWSIIPA], [CWSIISC], [CWSIITN], [CWSIITX], [CWSIIWA], [CWSIIVW]

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- format default

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- title cwss
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title cwsac

type boolean

format default

cws2


title cws2

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format default

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title aad

type boolean

format default

notall


title notall

type boolean

format default
NPS combined data battle data: battles

name nps_battles
path nps_battles.csv
format csv


This table combines data from those various sources in a consistent manner.

Sources:

Schema

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Table 66.1 – continued from previous page

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title CWSAC Id.
type string
format default
constraints
  minLength 5
  maxLength 6
  pattern [A-Z][2][0-9][3][A-Z]?

CWSAC battle identifier
**battle_name**

- **title**: battle_name
- **type**: string
- **format**: default

**start_date**

- **title**: Start date
- **type**: date
- **format**: default

**end_date**

- **title**: End date
- **type**: date
- **format**: default

**theater_code**

- **title**: theater_code
- **type**: string
- **format**: default
- **constraints**: enum ['LS', 'ME', 'MW', 'PC', 'TM']

CWSS theater code. See *NPS combined data battle data: theaters* for descriptions of the theaters.

**campaign_code**

- **title**: campaign_code
- **type**: string
- **format**: default
- **constraints**: pattern (LS|ME|MW|PC|TM)[0-9]{3}-[0-9]{2}

CWSS campaign code. See *NPS combined data battle data: campaigns* for descriptions of the campaigns.
**result**

- **title**: result
- **type**: string
- **format**: default
- **constraints**
  - **enum**: ['Union', 'Confederate', 'Indecisive']

Result of the battle: Union victory, Confederate victory, or Indecisive.

**cwss_url**

- **title**: CWSS URL
- **type**: string
- **format**: url

URL of the battle’s page in the Civil War Soldiers and Sailors website.

**partof_cwss**

- **title**: Part of CWSS
- **type**: boolean
- **format**: default

Was this battle included in the CWSS.

**operation**

- **title**: operation
- **type**: boolean
- **format**: default

Was this battle an operation (multiple battles)? In the data, Manasas Station Operations and Marietta Operations are classified as operations.

**forces_text**

- **title**: Forces text
- **type**: string
- **format**: default

Description of the forces engaged in the battle, from the CWSAC.
casualties_text

title Casualties text
type string
format default

Description of the casualties of the forces engaged in the battle, from the CWSAC.

results_text

title Results text
type string
format default

Description of the result of the battle, from the CWSAC. This will sometimes include more information about the results, including whether it was a strategic or tactical victory, or if the battle’s result differed from the result of the campaign.

preservation

title preservation
type string
format default
constraints

pattern (I{1,3}|IV).[1-4]

NPS preservation priority of the battlefield, based on the CWSAC report. See CWSAC Report (1993) preservation priority categories for more information.

significance

title significance
type string
format default
constraints

enum ['A', 'B', 'C', 'D']

The military significance of the battle, from A “having a decisive influence on a campaign and a direct impact on the course of the war” to D “having a limited influence on the outcome of their campaign or operation but achieving or affecting important local objectives”. This determined by the National Part Service CWSAC Report with input from Edwin C. Bearss, William J. Cooper, and James McPherson.
cwsac_url

title cwsac_url
type string
format url


other_names

title other_names
type string
format default

partof_cwsac

title Part of CWSAC
type boolean
format default

Was this battle included in the 1993 CWSAC Report.

cws2_url

title cws2_url
type string
format default


study_area

title Study Area
type number
format default

CWSAC II study area in acres. See CWSAC Report Updates battle data: battles.

core_area

title Core Area
type number
format default

CWSAC II core area in acres. See CWSAC Report Updates battle data: battles.
potnr_boundary

title potnr_boundary
type number
format default

partof_cws2

title partof_cws2
type boolean
format default

interpretive_political

title interpretive_political
type integer
format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

interpretive_commander_loss

title interpretive_commander_loss
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format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

interpretive_casualties

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format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

interpretive_tactics_strategy

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See *Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD*

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See *Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD*

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See *Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD*

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See *Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD*

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- **format** default

See *Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD*

**interpretive_economic**

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- **type** integer
- **format** default

See *Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD*
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  title  interpretive_archaelogical
  type   integer
  format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

interpretive_logistics

  title  interpretive_logistics
  type   integer
  format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

interpretive_individual_bravery

  title  interpretive_individual_bravery
  type   integer
  format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

interpretive_group_behavior

  title  interpretive_group_behavior
  type   integer
  format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

interpretive_joint_ops

  title  interpretive_joint_ops
  type   integer
  format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD
interpretive_coop_armies

title interpretive_coop_armies
type integer
format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

interpretive_naval

title interpretive_naval
type integer
format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

significance_jim

title significance_jim
type string
format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

significance_ed

title significance_ed
type string
format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD

significance_bill

title significance_bill
type string
format default

See Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD
AAD URL

- **Title**: aad_url
- **Type**: string
- **Format**: URL

URL of the initial battle’s report for the CWSAC as archived by the AAD.

Battle Type

- **Title**: Battle Type
- **Type**: string
- **Constraints**

Type of battle. Both the AAD and CWSS provide battle type categories. However, the AAD is more complete and so is the one used.

Part of AAD

- **Title**: partof_aad
- **Type**: boolean
- **Format**: default

Lat

- **Title**: Latitude
- **Type**: number
- **Format**: default

Latitude of the battle. This is roughly the midpoint of the core area of the battle as indicated in the CWSAC II report maps.

Long

- **Title**: Longitude
- **Type**: number
- **Format**: default

Latitude of the battle. This is roughly the midpoint of the core area of the battle as indicated in the CWSAC II report maps.
state

title State

type string

format default

constraints

pattern \([A-Z]\{2\}\)

strength

title Strength


type number

format default

constraints

minimum 0

Total (Confederate and Union) personnel engaged in the battle. This combines data from the CWSS, CWSAC, and CWSAC II sources. For some battle the total personnel is given, even though the individual Confederate and Union values are missing.

casualties_kwm

title Casualties


type number

format default

constraints

minimum 0

Total (Confederate and Union) casualties in the battle. This combines data from the CWSS and CWSAC sources. For some battle the total personnel is given, even though the individual Confederate and Union values are missing.
NPSA Battles to Dbpedia/Wikipedia Correspondence

name nps_battles_to_wiki
path nps_battles_to_wiki.csv
format csv

Sources: [jrnold]

Schema

<table>
<thead>
<tr>
<th>cwsac_id</th>
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<th>CWSAC Id</th>
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<tbody>
<tr>
<td>dbpedia_uri</td>
<td>url</td>
<td>Dbpedia URI</td>
</tr>
<tr>
<td>wikipedia_title</td>
<td>string</td>
<td>Wikipedia Page</td>
</tr>
<tr>
<td>relation</td>
<td>string</td>
<td>relation</td>
</tr>
</tbody>
</table>

cwsac_id

title CWSAC Id
type string
format default
constraints

pattern [A-Z][3][0-9][2]

CWSAC ID

dbpedia_uri

title Dbpedia URI
type url
format default
URI of the dbpedia resource for the battle.

wikipedia_title

  title Wikipedia Page
  type string
  format default
Title of the English Wikipedia page for the battle.

relation

  title relation
  type string
  format default
One of “=” for equality, “<” for a subset of, and “>” for a superevent of.
NPS combined data battle data: campaigns

name nps_campaigns
path nps_campaigns.csv
format csv

Campaigns in the National Park Services Civil War battle data.
These data are a copy of the CWSS campaign list, *CWSS campaign list*.
Sources:

### Schema

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<tr>
<th>Field</th>
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<th>Description</th>
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<tbody>
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<tr>
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<tr>
<td>CampaignEndDate</td>
<td>date</td>
<td>End Date</td>
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<tr>
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<td>string</td>
<td>Wikipedia Page</td>
</tr>
<tr>
<td>WikipediaCategory</td>
<td>string</td>
<td>Wikipedia Category</td>
</tr>
</tbody>
</table>

### CampaignCode

- **title**: CampaignCode
- **type**: string
- **format**: default
- **constraints**
  - **pattern**: [A-Z]{2}[0-9]{3}

---

255
CWSS Campaign Code

CampaignName

  title  Campaign Name
  type  string
  format  default

CampaignDates

  title  CampaignDates
  type  string
  format  default

  Dates of the campaign (as a string)

CampaignStartDate

  title  Start Date
  type  string
  format  default

CampaignEndDate

  title  End Date
  type  date
  format  default

TheaterCode

  title  TheaterCode
  type  string
  format  default
  constraints
    pattern  [A-Z]{2}

WikipediaPage

  title  Wikipedia Page
  type  string
  format  default

  Title of the English Wikipedia page for the campaign
WikipediaCategory

  title  Wikipedia Category
  type   string
  format default

Title of the English Wikipedia category for the campaign
NPS combined data battle data: commanders

name  nps_commanders
path  nps_commanders.csv
format csv

Principal commanders of the battle data combining the National Park Services reports. These data are a slightly edited version of the CWSS data, *CWSS battle data: principal commanders*.

Sources:

**Schema**

<table>
<thead>
<tr>
<th>Schema</th>
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<th>Description</th>
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<tbody>
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<td>rank</td>
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<tr>
<td>navy</td>
<td>boolean</td>
<td>navy</td>
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**cwsac_id**

- **title** cwsac_id
- **type** string
format default

belligerent
title belligerent
type string
format default

commander_number
title commander_number
type integer
format default

commander
title commander
type string
format default

added
title added
type boolean
format default

last_name
title last_name
type string
format default

suffix
title suffix
type string
format default
first_name

  title first_name
  type string
  format default

middle_name

  title middle_name
  type string
  format default

middle_initial

  title middle_initial
  type string
  format default

rank

  title rank
  type string
  format default

navy

  title navy
  type boolean
  format default
NPS combined data battle data: forces

```
name  nps_forces
path  nps_forces.csv
format csv
```


For each of the casualty types and strength a mean and variance is provided. The values of casualties come from the CWSS, and CWSAC reports, in that order of preference. The values of strength come from the CWSS, CWSAC II, and CWSAC reports, in that order of preference.

- mean: the given value, or the midpoint if a range is given.
- variance:
  - If a range is given, the variance of a uniform distribution with that range.
  - If no range is given, the measurement error implied by rounding. \( \text{var}(x) = \frac{1}{12}10^k \), where \( k \) is the number of zeros in the value.

Sources:
### Schema

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<th>Type</th>
<th>Description</th>
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<td>belligerent</td>
</tr>
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<td>number</td>
<td>Casualties (mean)</td>
</tr>
<tr>
<td>casualties_k_mean</td>
<td>number</td>
<td>Killed (mean)</td>
</tr>
<tr>
<td>casualties_w_mean</td>
<td>number</td>
<td>Wounded (mean)</td>
</tr>
<tr>
<td>casualties_m_mean</td>
<td>number</td>
<td>Missing or captured (mean)</td>
</tr>
<tr>
<td>casualties_kwm_var</td>
<td>number</td>
<td>Casualties (variance)</td>
</tr>
<tr>
<td>casualties_k_var</td>
<td>number</td>
<td>Killed (variance)</td>
</tr>
<tr>
<td>casualties_w_var</td>
<td>number</td>
<td>Wounded (variance)</td>
</tr>
<tr>
<td>casualties_m_var</td>
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</tr>
<tr>
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<td>Killed or wounded (mean)</td>
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<tr>
<td>casualties_kw_var</td>
<td>number</td>
<td>Killed or wounded (variance)</td>
</tr>
<tr>
<td>strength_mean</td>
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<tr>
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</tr>
<tr>
<td>casualties_wm_var</td>
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<td>Wounded or missing (variance)</td>
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**cwsac_id**

- **title**: CWSAC Id.
- **type**: string
- **format**: default
- **constraints**
  - **minLength**: 5
  - **maxLength**: 6
  - **pattern**: [A-Z][2][0-9][3][A-Z]?

CWSAC battle identifier

**belligerent**

- **title**: belligerent
- **type**: string
- **format**: default
- **constraints**
  - **enum**: ['US', 'Confederate', 'Native American']

Side of the force: Confederate or Union or Native American.

**casualties_kwm_mean**

- **title**: Casualties (mean)
Number of casualties (killed, wounded, or missing). Mean estimate.

**casualties_k_mean**

- **title**: Killed (mean)
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0

Number killed. Mean estimate.

**casualties_w_mean**

- **title**: Wounded (mean)
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0

Number wounded. Mean estimate.

**casualties_m_mean**

- **title**: Missing or captured (mean)
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0

Number missing or captured. Mean estimate.

**casualties_kwm_var**

- **title**: Casualties (variance)
- **type**: number
- **format**: default
- **constraints**
Number of casualties (killed, wounded, or missing). Variance of estimate.

**casualties_k_var**

- **title**: Killed (variance)
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0

Number killed. Variance of estimate.

**casualties_w_var**

- **title**: Wounded (variance)
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0

Number killed. Variance of estimate.

**casualties_m_var**

- **title**: Missing or captured (variance)
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0

Number missing or captured. Variance of estimate.

**casualties_kw_mean**

- **title**: Killed or wounded (mean)
- **type**: number
- **format**: default
- **constraints**
  - **minimum**: 0
casualties_kw_var

title  Killed or wounded (variance)
type  number
format  default
constraints
  minimum  0

strength_mean

title  Personnel (mean)
type  number
format  default
constraints
  minimum  0

strength_var

title  Personnel (variance)
type  number
format  default
constraints
  minimum  0

casualties_km_mean

title  Killed or missing (mean)
type  number
format  default
constraints
  minimum  0

casualties_wm_mean

title  Wounded or missing (mean)
type  number
format  default
constraints
  minimum  0
casualties_km_var

title  Killed or missing (variance)
type   number
format default
constraints
  minimum 0

casualties_wm_var

title  Wounded or missing (variance)
type   number
format default
constraints
  minimum 0
NPS combined data: people

name  nps_people
path  nps_people.csv
format  csv

People data for the combined National Park Services data.
These data are a slightly edited version of the CWSS data, CWSS people.
Individuals’ DBPedia URIs were pulled from DBPedia and matched with unit names through a combination of regex merges using fuzzyjoin, humaniformat, and manual matching.
Sources:

Schema

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person_id

title person_id
type string
format default

last_name

title last_name
type string
format default

suffix

title suffix
type string
format default

first_name

title first_name
type string
format default

middle_name

title middle_name
type string
format default

middle_initial

title middle_initial
type string
format default

rank

title rank
type string
format default
bio

title  bio
type  string
format  default

bio_source

title  bio_source
type  string
format  default

narrative_link_1

title  narrative_link_1
type  string
format  default

narrative_link_2

title  narrative_link_2
type  string
format  default

added

title  added
type  boolean
format  default

dbpedia_uri

title  dbpedia_uri
type  string
format  default
dbpedia uri for additional information about people
NPS combined data battle data: theaters

name  nps_theaters
path  nps_theaters.csv
format  csv


This table is the same as the CWSS theaters, CWSS theaters.

Sources:

**Schema**

<table>
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</tr>
<tr>
<td>WikipediaPage</td>
<td>string</td>
<td>Wikipedia Page</td>
</tr>
</tbody>
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**TheaterCode**

title  Theater Code
type  string
format  default
constraints
    pattern  [A-Z]{2}

CWSS Theater Code
TheaterName

title  Theater Name  
type  string  
format  default  

WikipediaCategory

title  Wikipedia Category  
type  string  
format  default  

Title of the English Wikipedia category for the theater.

Sources:

WikipediaPage

title  Wikipedia Page  
type  string  
format  default  

Title of the English Wikipedia category for the theater.

Sources:
NPS ethnic categories of units.

**name**  nps_unit_categories_ethnic

**path**  nps_unit_categories_ethnic.csv

**format**  csv

Descriptions of the unit type categories in `nps_units.ethnic`.

Sources:

### Schema

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</tr>
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**abbr**

- **title**  abbr
- **type**  string
- **format**  default
- **constraints**
  - **minLength**  1
  - **maxLength**  1

**description**

- **title**  description
- **type**  string
format default
nps_unit_categories_function

name  nps_unit_categories_function
path  nps_unit_categories_function.csv
format csv

Descriptions of the unit type categories in nps_units.func.
Sources:

Schema

<table>
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<th>description</th>
<th>string</th>
</tr>
</thead>
</table>

abbr

title  abbr
type  string
format default
constraints
  minLength 1
  maxLength 1

description

title  description
type  string
format default
NPS combined categories of special functions of unit.

name  nps_unit_categories_special
path  nps_unit_categories_special.csv
format  csv

Descriptions of the unit type categories in nps_units.special.
Sources:

Schema

<table>
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<td>description</td>
</tr>
</tbody>
</table>

abbr

title  abbr

type  string

format  default

constraints

   minLength  1
   maxLength  1

description

title  description

type  string
format default
NPS combined data categories of types of data.

- **name**: nps_unit_categories_type
- **path**: nps_unit_categories_type.csv
- **format**: csv

Descriptions of the unit type categories in `nps_units.type`.

Sources:

**Schema**

<table>
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<tr>
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<th>abbr</th>
<th>description</th>
<th>string</th>
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</table>

**abbr**

- **title**: abbr
- **type**: string
- **format**: default
- **constraints**
  - minLength: 1
  - maxLength: 1

**description**

- **title**: description
- **type**: string
format default
NPS Units

- **name**: nps_units
- **path**: nps_units.csv
- **format**: csv

Unit DBPedia URIs were pulled from DBPedia and matched with unit names through a combination of regex merges using fuzzyjoin and manual matching.

Sources:

**Schema**

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<td>duplicate</td>
</tr>
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</tr>
</tbody>
</table>

**unit_code**

- **title**: unit_code
- **type**: string
- **format**: default
unit_name

title  unit_name
type  string
format  default

Unit name.

belligerent

title  belligerent
type  string
format  default
constraints
enum  ['US', 'Confederate']

state

title  state
type  string
format  default
constraints
minLength  2
maxLength  2
pattern  [A-Z][2]

ordinal

title  ordinal
type  string
format  default

Unit number. For example, for the Massachusetts 1st Infantry Regiment, the value of ordinal is 1.

type

title  type
type  string
format  default
constraints
minLength  1
maxLength  1
Unit type: regiment, squadron, battery, company. See nps_unit_categories_type for descriptions of the categories in this column.

**func**

- **title** func
- **type** string
- **format** default

Unit function. Examples include: “Artillery”, “Cavalry”, “Infantry”.

**special**

- **title** special
- **type** string
- **format** default
- **constraints**
  - **minLength** 1
  - **maxLength** 1

Additional category of the unit for special units. Examples include: “Veteran (Non Volunteer)”, “State Militia”, “Mounted”, “Heavy Artillery”, “Home Guard”. See nps_unit_categories_special for descriptions of the categories in this column.

**ethnic**

- **title** ethnic
- **type** string
- **format** default
- **constraints**
  - **minLength** 1
  - **maxLength** 1

Ethnic type of the unit, if any. The only two ethnic types are colored (“C”) and Native American (“I”). See nps_unit_categories_ethnic for descriptions of the categories in this column.

**duplicate**

- **title** duplicate
- **type** number
- **format** default

Number to disambiguate units if there are multiple units with the same unit code.
dbpedia_uri

title dbpedia_uri

type string

format default

dbpedia uri for additional information about units
New York Times chronology of events of the American Civil War. This data consists of the events listed by and descriptions thereof that appeared in year-end articles in the *New York Times* 1861-1865.

Sources: [NYT1861], [NYT1862], [NYT1863], [NYT1864], [NYT1865]
Phisterer (1883) battle data: battle list

name phisterer_battles
path phisterer_battles.csv
format csv

Phister (1883) Battle
Data from Data from
> Phisterer, Frederick (1883) Statistical Records of the Armies of the United States (Google books).

Data on major battles along with Union and Confederate casualties from the table “Loss in engagements, etc., where the total was five hundred or more on the side of the Union troops—(149).” on p. 213-219. The caption for the table reads:

> Although the losses here given are generally based on official medical returns, the figures must not be taken as perfectly reliable, for in many instances the returns were based on estimates, and the totals of losses were, by later and more reliable returns, sometimes considerably reduced. Confederate losses are generally based on estimates.

Notes

• The Seven Days battles is split into two engagements, with Oak Grove on June 25th separate from The remaining battles (June 26-July 1).
  – 2279: Oak Grove, Va, VA (1862-6-25 - 1862-6-25)
  – 2280: Seven Day’s retreat; includes Mechanicsville, Gaines’ Mills, Chickahominy, Peach Orchard, Savage Station, Charles City Cross Roads, and Malvern Hill, VA (1862-6-26 - 1862-7-1)

• 2283: Guerilla campaign in Missouri; includes with Porter’s and Poindexter’s Guerillas, MO (1862-7-20 - 1862-9-20). This includes Missouri battles MO013, MO014, MO015.

• The battle of 2nd Manassas (Bull Run) is split into two battles
  – 2284: Groveton and Gainesville, Va, VA (1862-8-28 - 1862-8-29)
2285: Bull Run, Va (2d), VA (1862-8-30 - 1862-8-30)

- 2307: Refers to all of [Steight’s Raid](http://en.wikipedia.org/wiki/Streight%27s_Raid). There is only one battle in CWSAC (Day’s Gap).

- 2298: Foster’s expedition to Goldsboro, N.C., NC (1862-12-12 - 1862-12-18). This includes several CWSAC battles.

- 2311: Siege of Vicksburg, Miss., MS (1863-5-18 - 1863-7-4) includes the whole siege. There are not separate entries for the assaults.

- 2312: Siege of Port Hudson, La., LA (1863-5-27 - 1863-7-9) includes the whole siege. There are not separate entries for the assaults.

- 2323: Chattanooga, Tenn.; includes Orchard Knob, Lookout Mountain, and Missionary Ridge, TN (1863-11-23 - 1863-11-25). There are not separate entries for the engagements within the battle of Chattanooga.

- 2345: “Kenesaw Mountain, Ga.; includes Pine Mountain, Pine Knob, Golgotha, Culp’s House, general assault, June 27th; McAffee’s Cross Roads, Lattemore’s Mills, and Powder Springs., GA (1864-6-9 - 1864-6-30)” This includes several CWSAC Battles including GA013 (Marietta), GA014 (Kolb’s Farm), and GA015 (Kenesaw Mountain). There is also a separate entry for the assault on Kenesaw Mountain (2354).

- 2351, 2355, 2366, 2373 all refer to Trenches in front of Petersburg, but don’t seem to point to any specific battles. Most of the battles in the Petersburg Campaign have their own entries.

- 2352: Wilson’s raid on the Weldon Railroad, Va., VA (1864-6-22 - 1864-6-30). This includes several battles: Staunton River Bridge (VA113; 1864-06-25), Sappony Church (VA067; 1864-06-28), Ream’s Station I (VA068; 1864-06-29).

- 2354: Kenesaw Mountain, general assault. See No. 2345. This covers the assault on June 27, 1864. The entry 2345 includes this assault as well as operations in Marietta and Kolb’s Farm.

- 2362: This is NOT Stoneman’s Raid <http://en.wikipedia.org/wiki/Stoneman%27s_Raid>. There appears to be no battle page for this, although it is discussed in [http://en.wikipedia.org/wiki/George_Stoneman](http://en.wikipedia.org/wiki/George_Stoneman).

- 2372: Campaign in Northern Georgia, from Chattanooga, Tenn., to Atlanta, Ga., TN (1864-5-5 - 1864-9-8) This includes several CWSAC battles, and also overlaps with several other entries in the data.

- 2376: Price’s invasion of Missouri; includes a number of engagements This battle is linked to all battles in Price’s Missouri Expedition <http://en.wikipedia.org/wiki/Category:Battles_of_Price%27s_Missouri_Expedition_of_the_American_Civil_War>.

- 2395 and 2394: both appear to refer to the Battle of Fort Stedman since it was the major action in Petersburg on March 25, 1865.

- 2397: Wilson’s raid from Chickasaw, Ala., to Macon, Ga.; includes a number of engagements, GA (1865-3-22 - 1865-4-24). However, Selma (AL007) is the only major battle in this.

Sources: [Phisterer1883]  

**Schema**

**Primary Key** ['battle_id']
### battle_id

**title** Battle

**type** integer

**format** default

**constraints**

- **minimum** 2262
- **maximum** 2410

Identifier number of the battle. These are the numbers used in Phisterer (1883). They start at 2262 because 1-2261 refer to the events in the chronological record (see Phisterer (1883) chronological list of engagements).

### battle_name

**title** Battle name

**type** string

**format** default

### state

**title** state

**type** string

**format** default

**constraints**

- **pattern** [A-Z][A-Z]

Two-letter state code for the state of the battle.

### start_date

**title** Start date

**type** date

**format** default
end_date

- **title**: End date
- **type**: date
- **format**: default

surrender

- **title**: surrender
- **type**: boolean
- **format**: default

Was the engagement a surrender rather than a battle? Phisterer includes entries for the surrenders of Johnston, Taylor, Sam Jones, Jeff Thompson, and Kirby Smith at the end of the war.

campaign

- **title**: Campaign
- **type**: boolean
- **format**: default

Was the engagement a campaign rather than a battle?

page

- **title**: Page
- **type**: integer
- **format**: default

Page number in Phisterer (1883).
A list of events on p. 83–212. Phisterer’s introduction to the chronological record is:

Under the orders of the Surgeon-General of the Army, a work of the greatest importance was undertaken and completed by that Department, viz., “The Medical and Surgical History of the War of the Rebellion,” and great credit is due for the magnificent and instructive work to Surgeons-General Wm. A. Hammond and J. K. Barnes, U. S. Army; Surgeon J. H. Brinton, U. S. Volunteers; Assistant-Surgeons (then) J. J. Woodward and George A. Otis, U. S. Army, who were directly connected with the work, as well as the members of the Medical Department, regulars and volunteers, generally.

In this work there is a chronological record of engagements, etc., compiled by the Chief Clerk of the Surgical Division. Mr. Frederick R. Sparks, from official sources where practicable, from Confederate reports, and from Union and Confederate newspapers in other cases, where the statement was not obviously false. As full as the record is, it is not complete. In preparing it for publication here, several minor engagements were added, and others may find omissions as well; nevertheless, this is the complete record in existence at present.

Sources: [Phisterer1883]
Schema

<table>
<thead>
<tr>
<th>battle_id</th>
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<th>Battle</th>
</tr>
</thead>
<tbody>
<tr>
<td>start_date</td>
<td>string</td>
<td>start_date</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>end_date</td>
</tr>
<tr>
<td>monthonly</td>
<td>boolean</td>
<td>monthonly</td>
</tr>
<tr>
<td>location</td>
<td>string</td>
<td>Location</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>battle_name</td>
<td>string</td>
<td>Battle name</td>
</tr>
</tbody>
</table>

**battle_id**

- **title**: Battle
- **type**: integer
- **format**: default

Identifier number. These are the numbers given to the engagements in Phisterer (1883).

**start_date**

- **title**: start_date
- **type**: string
- **format**: default

**end_date**

- **title**: end_date
- **type**: date
- **format**: default

**monthonly**

- **title**: monthonly
- **type**: boolean
- **format**: default

For some engagements only the months, and not the exact days are given. For these the first and last days of the month are used as the start and end dates, and this variable is set to true.

**location**

- **title**: Location
- **type**: string
- **format**: default
state

  title  State
  type   string
  format default
  constraints
    pattern [A-Z][A-Z]

battle_name

  title  Battle name
  type   string
  format default
Phisterer (1883) number of engagements by year

```yaml
name: phisterer_engagements_by_year
path: phisterer_engagements_by_year.csv
format: csv
```

Number of engagements by year in Phisterer (1883) chronological list of engagements (Phisterer (1883) chronological list of engagements).

Sources: [Phisterer1883]

**Schema**

<table>
<thead>
<tr>
<th>year</th>
<th>integer</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>engagements</td>
<td>integer</td>
<td>Numbe of Engagements</td>
</tr>
</tbody>
</table>

**year**

- **title**: Year
- **type**: integer
- **format**: default

**engagements**

- **title**: Numbe of Engagements
- **type**: integer
- **format**: default
Phisterer (1883) battle data: force casualties

name phisterer_forces
path phisterer_forces.csv
format csv

Phisterer (1883) data on casualties of forces.
See Phisterer (1883) battle data: battle list for more on the Phisterer (1883) data.
In this data each observation is a force (belligerent, battle).
Sources: [Phisterer1883]

Schema

**Primary Key** ['battle_id', 'belligerent']

| battle_id | integer | battle_id |
| belligerent | string | belligerent |
| casualties | number | casualties |
| killed | number | killed |
| wounded | number | wounded |
| missing | number | missing |

**battle_id**

title battle_id
type integer
format default
belligerent

title belligerent
type string
format default
constraints
    enum ['US', 'Confederate']

casualties

title casualties
type number
format default
constraints
    minimum 0

killed

title killed
type number
format default
constraints
    minimum 0

wounded

title wounded
type number
format default
constraints
    minimum 0

missing

title missing
type number
format default
constraints
    minimum 0
Concordance between battles in Phisterer data and CWSAC battles.

**name**  phisterer_to_cwsac  
**path**  phisterer_to_cwsac.json  
**format**  json  

Concordance between battles in `phisterer_battles` and CWSAC battle identifiers.

See the notes in *Phisterer (1883) battle data: battle list.*

Sources: [Phisterer1883]
Reiter (2009) Turning Points of the American Civil War

name reiter2009_turning_points
path reiter2009_turning_points.csv
format csv


Chapter 8 of discusses five turning points (and associated periods) of the American Civil War. Four of these turning points are based off of those listed by James McPherson in *The Battle Cry of Freedom*; the fifth is the end of the war.

Sources: [Reiter2009]

**Schema**

<table>
<thead>
<tr>
<th>period</th>
<th>Time period of the turning point</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>start_date</td>
<td>date</td>
<td>Start Date</td>
</tr>
<tr>
<td>description</td>
<td>string</td>
<td>Description</td>
</tr>
<tr>
<td>favor</td>
<td>string</td>
<td>War Favor</td>
</tr>
<tr>
<td>war_aims_change</td>
<td>string</td>
<td>War Aims Change</td>
</tr>
<tr>
<td>comment</td>
<td>string</td>
<td>Comment</td>
</tr>
</tbody>
</table>

**period**

- **title**  Period
- **type**   Time period of the turning point
- **format** default
**start_date**

- **title**: Start Date
- **type**: date
- **format**: default

**description**

- **title**: Description
- **type**: string
- **format**: default

Brief description of the turning point

**favor**

- **title**: War Favor
- **type**: string
- **format**: default

- **constraints**
  - **enum**: ['Union', 'Confederacy']

Which side did the turning point favor: Union or Confederacy?

**war_aims_change**

- **title**: War Aims Change
- **type**: string
- **format**: default

Did either side change war aims in the following period?

**comment**

- **title**: Comment
- **type**: string
- **format**: default
NPS Shenandoah Report battle data

name  shenandoah
path  shenandoah.json
format json

Sources:
NPS Shenandoah Report battle data: list of battles

**name** shenandoah_battles

**path** shenandoah_battles.csv

**format** csv

Sources: [NPS1992]

### Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>battle_id</td>
<td>integer</td>
<td>Battle Id.</td>
</tr>
<tr>
<td>battle_name</td>
<td>string</td>
<td>Battle Name</td>
</tr>
<tr>
<td>cwsac_id</td>
<td>string</td>
<td>cwsac_id</td>
</tr>
<tr>
<td>start_date</td>
<td>date</td>
<td>Start Date</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>End Date</td>
</tr>
<tr>
<td>campaign</td>
<td>string</td>
<td>Campaign</td>
</tr>
<tr>
<td>county</td>
<td>string</td>
<td>County</td>
</tr>
<tr>
<td>url</td>
<td>string</td>
<td>url</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** Battle Id.
- **type** integer
- **format** default

Unique identifier in the Shenandoah data.
**battle_name**

- **title**: Battle Name
- **type**: string
- **format**: default

**cwsac_id**

- **title**: cwsac_id
- **type**: string
- **format**: default
- **constraints**
  - **pattern**: [A-Z]{2}[0-9]{3}[A-Z]?

Identifier of the battle in CWSAC. See *CWSAC Report battle data: battles*.

**start_date**

- **title**: Start Date
- **type**: date
- **format**: default

**end_date**

- **title**: End Date
- **type**: date
- **format**: default

**campaign**

- **title**: Campaign
- **type**: string
- **format**: default

**county**

- **title**: County
- **type**: string
- **format**: default

County of the battle
url

title url

type string

format default
NPS Shenandoah Report battle data: commanders

```
name  shenandoah_commanders
path  shenandoah_commanders.csv
format csv
```

Sources: [NPS1992]

### Schema

<table>
<thead>
<tr>
<th>battle_id</th>
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<th>battle_id</th>
</tr>
</thead>
<tbody>
<tr>
<td>cwsac_id</td>
<td>string</td>
<td>cwsac_id</td>
</tr>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>last_name</td>
<td>string</td>
<td>Last name</td>
</tr>
<tr>
<td>first_name</td>
<td>string</td>
<td>First name</td>
</tr>
<tr>
<td>middle_name</td>
<td>string</td>
<td>Middle name</td>
</tr>
<tr>
<td>rank</td>
<td>string</td>
<td>Rank</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** battle_id
- **type** integer
- **format** default

**cwsac_id**

- **title** cwsac_id
- **type** string
belligerent

title belligerent
type string
format default

last_name

title Last name
type string
format default

first_name

title First name
type string
format default

middle_name

title Middle name
type string
format default

rank

title Rank
type string
format default
NPS Shenandoah Report battle data: force strengths and casualties

name  shenandoah_forces
path  shenandoah_forces.csv
format  csv

Sources: [NPS1992]

**Schema**

<table>
<thead>
<tr>
<th>battle_id</th>
<th>integer</th>
<th>battle_id</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
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<td>Belligerent</td>
</tr>
<tr>
<td>description</td>
<td>string</td>
<td>Description</td>
</tr>
<tr>
<td>strength_min</td>
<td>integer</td>
<td>Strength (min)</td>
</tr>
<tr>
<td>strength_max</td>
<td>integer</td>
<td>Strength (max)</td>
</tr>
<tr>
<td>casualties_text</td>
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</tr>
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</tr>
<tr>
<td>killed</td>
<td>integer</td>
<td>Killed</td>
</tr>
<tr>
<td>wounded</td>
<td>integer</td>
<td>Wounded</td>
</tr>
<tr>
<td>missing_captured</td>
<td>integer</td>
<td>Missing or Captured</td>
</tr>
</tbody>
</table>

**battle_id**

- **title** battle_id
- **type** integer
- **format** default
belligerent

    title  Belligerent
    type   string
    format default
    constraints
    enum ['US', 'Confederate']

description

    title  Description
    type   string
    format default

strength_min

    title  Strength (min)
    type   integer
    format default

Strength in personnel of the force (minimum value). If no range is given, the maximum and minimum are set to the
same value.

strength_max

    title  Strength (max)
    type   integer
    format default

Strength in personnel of the force (maximum value). If no range is given, the maximum and minimum are set to the
same value.

casualties_text

    title  casualties_text
    type   string
    format default

Text describing the casualties of the battle.
casualties

title Casualties
type integer
format default
constraints
  minimum 0
Total casualties (killed, wounded, and missing or captured)

killed

title Killed
type integer
format default
constraints
  minimum 0

wounded

title Wounded
type integer
format default
constraints
  minimum 0

missing_captured

title Missing or Captured
type integer
format default
constraints
  minimum 0
Union and Confederate ship list

name  ships
path  ships.csv
format  csv

Names of ships and links to dbpedia.org and the Dictionary of American Naval Fighting Ships (DANFS). This contains all ships that appeared in battles in Ships in battles, not all ships in the Union and Confederate navies.

Sources: [jrnold]

Schema

<table>
<thead>
<tr>
<th>ship_id</th>
<th>string</th>
<th>Ship identifier</th>
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<td>name</td>
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<td>Ship name</td>
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<tr>
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<td>Belligerent</td>
</tr>
<tr>
<td>url_dbpedia</td>
<td>string</td>
<td>dbpedia Link</td>
</tr>
<tr>
<td>url_danfs</td>
<td>string</td>
<td>DANFS URL</td>
</tr>
<tr>
<td>notes</td>
<td>string</td>
<td>notes</td>
</tr>
</tbody>
</table>

ship_id

title  Ship identifier
type   string
format  default

name

title  Ship name
Name of ship, not including the prefix or year of launch.

**belligerent**

- **title** Belligerent
- **type** string
- **format** default
- **constraints**
  - **enum** ['US', 'Confederate']

**url_dbpedia**

- **title** dbpedia Link
- **type** string
- **format** url

URI of the dbpedia.org resource.

**url_danfs**

- **title** DANFS URL
- **type** string
- **format** url

URL of the ship in the Naval History and Heritage Ship Histories, either the Dictionary of American Naval Fighting Ships (DANFS) or Confederate Ships.

**notes**

- **title** notes
- **type** string
- **format** default
Ships in battles

name ships_in_battles
path ships_in_battles.csv
format csv

Ships in each battle. The CWSAC battle list is used as the unit of observation.
Sources: [jrnold]

Schema

<table>
<thead>
<tr>
<th>cwsac_id</th>
<th>string</th>
<th>CWSAC Id.</th>
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</thead>
<tbody>
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<td>Belligerent</td>
</tr>
<tr>
<td>ship</td>
<td>string</td>
<td>Ship name</td>
</tr>
</tbody>
</table>

cwsac_id

  title CWSAC Id.
  type string
  format default

CWSAC identifier of the battle. See CWSAC Report battle data: battles.

belligerent

  title Belligerent
  type string
  format default
ship

title Ship name
type string
format default

Name of ship These names match those in *Union and Confederate ship list.*
Locations of engagements from Washington Post map, “Battles and casualties of the American Civil War”

Data on the location of engagements in the American Civil War from the Washington Post interactive map “Battles and Casualties of the American Civil War” by Gene Thorpe:


The data itself is from the file, http://www.washingtonpost.com/wp-srv/lifestyle/special/civil-war-interactive/civil-war-battles-and-casualties-interactive-map/cwFourYearsSec.xml.

The data consist of 4,340 engagements, the locations of those engagements, and casualties in these battles. It is unclear where the list of engagements comes from (Phisterer has only 2261, Dyer has 9570).

Sources: [Thorpe2011]
Schema

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<td>Type</td>
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<tr>
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<tr>
<td>usCasTot</td>
<td>integer</td>
<td>Total US casualties</td>
</tr>
<tr>
<td>csCasTot</td>
<td>integer</td>
<td>Total Confederate casualties</td>
</tr>
</tbody>
</table>

**battleNum**

- **title**: Battle number
- **type**: integer
- **format**: default

Battle identifier number

**battleDetail**

- **title**: Battle details
- **type**: string
- **format**: default

Description of the battle

**beginDate**

- **title**: Begin date
- **type**: date
- **format**: default

**endDate**

- **title**: End date
- **type**: date
- **format**: default
unknownDay

title Unknown day

type boolean

format default

Equal to 1 if the date of the battle was unknown. In which case, the first and last days of the month are used.

lat

title Latitude

type number

format default

lng

title Longitude

type number

format default

shrtNm

title Short name

type string

format default

desc

title Description

type string

format default

type

title Type

type string

format default

Type of engagement. E.g. skirmish, siege, engagement.
killed

title  Killed

usCasTot

title  Total US casualties

csCasTot

title  Total Confederate casualties
Distributions of personnel in units

name  unit_sizes
path  unit_sizes.csv
format csv

Distributions of the number of personnel per unit (e.g. regiment,

Using the distribution of personnel per regiment from Livermore’s (1900) examples of regiment sizes, and the table of
units in Eicher and Eicher (2002), this data is the distribution of personnel in each type of unit (company, regiment,
brigade, division, corps, army, etc.). See the source for the details of how this data was simulated. This data is used
for estimates of strengths in battles when the source gives only the number and types of units (e.g. Clodfelter (2008)
Sources: [jrnold], [eicher2002civil], [Livermore1900]

Schema

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<td>mean</td>
</tr>
<tr>
<td>sd</td>
<td>number</td>
<td>sd</td>
</tr>
<tr>
<td>p025</td>
<td>number</td>
<td>p025</td>
</tr>
<tr>
<td>p25</td>
<td>number</td>
<td>p25</td>
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<tr>
<td>median</td>
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<td>median</td>
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<tr>
<td>p75</td>
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</tr>
<tr>
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belligerent

<table>
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</table>
type string
format default

unit_type

title unit_type
type string
format default

mean

title mean
type number
format default

sd

title sd
type number
format default

p025

title p025
type number
format default

p25

title p25
type number
format default

median

title median
type number
format default
p75

  title p75
  type number
  format default

p975

  title p975
  type number
  format default
wikipedia_battles

name wikipedia_battles
path wikipedia_battles.csv
format csv

Sources:

Schema

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<tr>
<td>cwsac_id</td>
<td>string</td>
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</tr>
</tbody>
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battle_id

title battle_id
type string
format default

id

title id
type number
format default
cwsac_id

title  cwsac_id
type   string
format default
**name** wikipedia_forces
**path** wikipedia_forces.csv
**format** csv

Sources:

**Schema**

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<td>number</td>
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<tr>
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<td>number</td>
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</tbody>
</table>
killed_max

title killed_max
type number
format default

wounded_min

title wounded_min
type number
format default

wounded_max

title wounded_max
type number
format default

missing_min

title missing_min
type number
format default

missing_max

title missing_max
type number
format default

captured_min

title captured_min
type number
format default

captured_max

title captured_max
type number
format default
killed_wounded_min

title killed_wounded_min
type number
format default

killed_wounded_max

title killed_wounded_max
type number
format default

wounded_missing_min

title wounded_missing_min
type number
format default

wounded_missing_max

title wounded_missing_max
type number
format default

captured_missing_min

title captured_missing_min
type number
format default

captured_missing_max

title captured_missing_max
type number
format default
CHAPTER 95

Indices and tables

- genindex
- modindex
- search
Bibliography


[NYT1865] “EVENTS iN 1865.; Chronicle of Noteworthy Occurrences for the Year. cLOSE oF tHE wAR fOR tHE uNION Miscellaneous Events at Home and Abroad.” 1865. New York Times. None


