## Contents

1 Resources 3
2 Sources 7
3 CDB90 to CWSAC battle links 9
4 Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD 11
5 Records About Civil War Battle Sites, created by the CWSAC, 1990-1993, and deposited with the National Archives AAD 21
6 Miscellaneous battle data 23
7 Bodart (1908) battles of the American Civil War 25
8 Bodart (1908) battle data: commanders 33
9 Bodart (1908) battle data: force strengths and casualties 37
10 Bodart (1908) battle data: generals killed 45
11 Correspondence between Bodart (1908) battles and CWSAC battle IDs 49
12 Correspondence between Bodart (1908) battles and dbpedia.org resources 51
13 War Trend from Burdekin and Langdana (1993) 53
14 Battle data from civilwar.org 55
15 Commanders in civilwar.org battle data 59
16 Strengths and casualties for forces in the civilwar.org battle data 61
17 Clodfelter (2008) battle data: battles 65
18 Clodfelter (2008) battle data: commanders 69
19 Clodfelter (2008) battle data: forces 73
<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Correspondence between Clodfelter and CWSAC battles.</td>
</tr>
<tr>
<td>21</td>
<td>clodfelter_to_dbpedia</td>
</tr>
<tr>
<td>22</td>
<td>CWSAC Report Updates battle data</td>
</tr>
<tr>
<td>23</td>
<td>CWSAC Report Updates battle data: battles</td>
</tr>
<tr>
<td>24</td>
<td>CWSAC Report Updates: commanders</td>
</tr>
<tr>
<td>25</td>
<td>CWSAC Report Updates battle data: battle dates</td>
</tr>
<tr>
<td>26</td>
<td>CWSAC Report Updates battle data: force strengths</td>
</tr>
<tr>
<td>27</td>
<td>CWSAC Report Updates battle data: locations</td>
</tr>
<tr>
<td>28</td>
<td>CWSAC Report (1993) battle data</td>
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<td>30</td>
<td>CWSAC Report battle data: campaigns</td>
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<tr>
<td>31</td>
<td>CWSAC Report (1993) battle data: commanders</td>
</tr>
<tr>
<td>32</td>
<td>CWSAC Report (1993) battle data: forces</td>
</tr>
<tr>
<td>33</td>
<td>CWSAC Report (1993) preservation priority categories</td>
</tr>
<tr>
<td>34</td>
<td>CWSAC Report Updates battle data: military significance categories</td>
</tr>
<tr>
<td>35</td>
<td>CWSAC Report (1993) theaters</td>
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<td>CWSS campaign list</td>
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<td>CWSS unit category abbreviations</td>
</tr>
<tr>
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<td>CWSS battle data: principal commanders</td>
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<td>41</td>
<td>CWSS battle data: forces</td>
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<td>42</td>
<td>CWSS people</td>
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<td>43</td>
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<td>47</td>
<td>CWSS Unit Titles</td>
</tr>
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80 Phisterer (1883) chronological list of engagements 291
81 Phisterer (1883) number of engagements by year 295
82 Phisterer (1883) battle data: force casualties 297
83 Concordance between battles in Phisterer data and CWSAC battles. 299
84 Reiter (2009) Turning Points of the American Civil War 301
85 NPS Shenandoah Report battle data 303
86 NPS Shenandoah Report battle data: list of battles 305
87 NPS Shenandoah Report battle data: commanders 309
88 NPS Shenandoah Report battle data: force strengths and casualties 311
89 Union and Confederate ship list 315
90 Ships in battles 317
91 Locations of engagements from Washington Post map, “Battles and casualties of the American Civil War” 319
92 Distributions of personnel in units 323
93 wikipedia_battles 327
94 wikipedia_forces 329
95 Indices and tables 333
Bibliography 335
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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-8.0.0.tar.gz
  • acw_battle_data-8.0.0.zip
Datasets included in this collection:

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<td>CWSS campaign list</td>
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</tr>
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<td>Eicher table of unit sizes</td>
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<td>Fox (1898) battle casualties (revised)</td>
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<td>fox_forces_to_cwsac.json</td>
<td>Correspondence fox_forces and CWSAC battles</td>
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<td>fox_outcomes.csv</td>
<td>Fox (1898) battle outcomes</td>
</tr>
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<td>Weekly casualty data from Greer “Counting Casualties Week-by-Week”</td>
</tr>
<tr>
<td>keneddy1997_battles.csv</td>
<td>Civil War Battlefield Guide data: battles</td>
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<tr>
<td>keneddy1997_forces.csv</td>
<td>Civil War Battlefield Guide data: forces</td>
</tr>
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<td>Size of the Union and Confederate Armies (Livermore, 1900)</td>
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<td>Livermore (1900) battle data: force strengths and casualties</td>
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<td>navalbattles.csv</td>
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</tr>
<tr>
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<td>National Park Service combined battle data: Battle in each battle</td>
</tr>
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<td>Comparison of battles in CWSAC AAD, CWSAC Report, CWSAC Updates, and CWSS</td>
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<td>NPS combined data battle data: battles</td>
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<td>NPSA Battles to Dbpedia/Wikipedia Correspondence</td>
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<td>NPS Shenandoah Report battle data: force strengths and casualties</td>
</tr>
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<td>Union and Confederate ship list</td>
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<tr>
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2.1 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]
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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<td>Interpretive Potential: High Archaeological Potential</td>
</tr>
<tr>
<td>interpretive_logistics</td>
<td>boolean</td>
<td>Interpretive Potential: Unusually Significant Logistics or Supply Feat</td>
</tr>
<tr>
<td>interpretive_individual_bravery</td>
<td>boolean</td>
<td>Interpretive Potential: Exception Individual Initiative in Bravery or Command</td>
</tr>
<tr>
<td>interpretive_group_behavior</td>
<td>boolean</td>
<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>
</tr>
<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>
Table 1 – continued from previous page

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

4.1.1 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.

4.1.2 event

**title**  event

**type**  string

**format**  default

4.1.3 type

**title**  Type

**type**  string

**format**  default


4.1.4 start_date

**title**  Start date

**type**  date

**format**  default

Beginning day of the event.

4.1.5 end_date

**title**  End date

**type**  date

**format**  default

End day of the event.
4.1.6 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 Robert N. Scott, the overall editor of The War of the Rebellion: A Compilation of the Official Records of the Union and Confederate Armies (Washington, DC: The Government Printing Office, 1880-1901), arranged Series I, of that publication, according to the campaigns and several theaters of operations . . . . The Official Records editors recognized five theaters of operations, Main Eastern, Lower Seaboard, Main Western, Trans-Mississippi, and Pacific Coast. Dr. Dallas D. Irvine, the creator and major compiler-editor of Military Operations of the Civil War: A Guide-Index to Official Records of the Union and Confederate Armies, 1861-1865 (Washington, DC: The Government Printing Office, 1968-80), modified this arrangement by removing the Gulf Approach operations from the Main Western Theater and combining them with the Lower Seaboard Theater. The Commission study used Irvine’s classification system.

4.1.7 campaign

title  campaign

type  string

format  default

4.1.8 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.

4.1.9 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.

4.1.10 ownership_local

title  Ownership (local government)
4.1.11 **ownership_private**

- **title**: Ownership (private)
- **type**: boolean
- **format**: default

4.1.12 **ownership_state**

- **title**: Ownership (state government)
- **type**: boolean
- **format**: default

4.1.13 **ownership_unknown**

- **title**: Ownership (unknown)
- **type**: boolean
- **format**: default

4.1.14 **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.

4.1.15 **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.

4.1.16 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.

4.1.17 interpretive_political

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

4.1.18 interpretive_commander_loss

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

4.1.19 interpretive_casualties

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

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

4.1.21 interpretive_public_mind

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

4.1.22 interpretive_combat_arm

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

4.1.23 interpretive_military_firsts

    title  Interpretive Potential: Military Firsts
    type   boolean
    format default

4.1.24 interpretive_minority_troops

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

4.1.25 interpretive_economic

    title  Interpretive Potential: Significant Economic Consequences
    type   boolean
    format default

4.1.26 interpretive_archaeological

    title  Interpretive Potential: High Archaeological Potential
    type   boolean
    format default
4.1.27 interpretive_logistics

- **title**: Interpretive Potential: Unusually Significant Logistics or SupplyFeat
- **type**: boolean
- **format**: default

4.1.28 interpretive_individual_bravery

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

4.1.29 interpretive_group_behavior

- **title**: Interpretive Potential: Exceptional Group Behavior
- **type**: boolean
- **format**: default

4.1.30 interpretive_joint_ops

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

4.1.31 interpretive_coop_armies

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

4.1.32 interpretive_naval

- **title**: Interpretive Potential: Naval Operations
- **type**: boolean
- **format**: default

4.1.33 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.

4.1.34 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.

4.1.35 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.

4.1.36 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.
4.1.37 protected_percent

<table>
<thead>
<tr>
<th>title</th>
<th>Protected (percent of land area)</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>number</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

4.1.38 county

<table>
<thead>
<tr>
<th>title</th>
<th>County</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

4.1.39 land_value

<table>
<thead>
<tr>
<th>title</th>
<th>Land value</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

4.1.40 priority1

<table>
<thead>
<tr>
<th>title</th>
<th>priority1</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>boolean</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

“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.

4.1.41 url

<table>
<thead>
<tr>
<th>title</th>
<th>url</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>url</td>
</tr>
</tbody>
</table>

URL to the record on aad.archives.gov.
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:
CHAPTER 6

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]

### 6.1 Schema

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cwsac_id</td>
<td>string</td>
<td>CWSAC Id.</td>
</tr>
<tr>
<td>battle_name</td>
<td>string</td>
<td>Battle name</td>
</tr>
<tr>
<td>attacker</td>
<td>string</td>
<td>Attacker</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>

#### 6.1.1 cwsac_id

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

6.1.2 battle_name

title  Battle name
type  string
format  default

6.1.3 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.

6.1.4 siege

title  siege
type  boolean
format  default

6.1.5 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” - “hievon 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 - “vermixßt, 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”
  - “Geschutze”, “Gesch.” = “artillery”
  - “Munitionswagon” = “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]

### 7.1 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 number</td>
</tr>
<tr>
<td>battle_name</td>
<td>string</td>
<td>Battle name</td>
</tr>
<tr>
<td>other_names</td>
<td>string</td>
<td>Other name(s)</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>location</td>
<td>string</td>
<td>Location</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>category_schlacht</td>
<td>boolean</td>
<td>Battle</td>
</tr>
<tr>
<td>category_treffen</td>
<td>boolean</td>
<td>Meeting</td>
</tr>
<tr>
<td>category_belagerung</td>
<td>boolean</td>
<td>Siege</td>
</tr>
<tr>
<td>category_kapitulation</td>
<td>boolean</td>
<td>Surrender</td>
</tr>
<tr>
<td>category_einnahme</td>
<td>integer</td>
<td>Capture</td>
</tr>
<tr>
<td>category_size</td>
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<td>Size</td>
</tr>
<tr>
<td>page</td>
<td>integer</td>
<td>page</td>
</tr>
</tbody>
</table>

#### 7.1.1 battle_id

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

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

Name of the battle

7.1.3 other_names

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

Alternate names for the battle

7.1.4 start_date

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

7.1.5 end_date

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

7.1.6 location

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

Location of the battle (in German)

7.1.7 state

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

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

    title  Battle
    type   boolean
    format default

Was the battle a major battle ("Schlacht")?

7.1.9 category_treffen

    title  Meeting
    type   boolean
    format default

Was the battle a meeting or encounter ("Treffen")?

7.1.10 category_belagerung

    title  Siege
    type   boolean
    format default

Was the battle a siege ("Belagerung")?

7.1.11 category_kapitulation

    title  Surrender
    type   boolean
    format default

Was the battle a surrender ("Kapitulation")?

7.1.12 category_einnahme

    title  Capture
    type   integer
    format default

Was the battle a capture ("Einnahme")?

7.1.13 category_size

    title  Size
    type   integer
    format default
    constraints
Category of the battle based on total casualties. For land battles the categories are:

1. > 30,000
2. > 20,000
3. > 10,000
4. > 5,000
5. > 3,000
6. > 1,000

7.1.14 page

- title page
- type integer
- format default

Page number in Bodart (1908)
Bodart (1908) battle data: commanders

name bodart1908_commanders
path bodart1908_commanders.csv
format csv

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]

8.1 Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>Battle Id.</th>
</tr>
</thead>
<tbody>
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<td>belligerent</td>
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<tr>
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<td>Name</td>
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<td>last_name</td>
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</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>

8.1.1 battle_id

title Battle Id.
type string
8.1.2 belligerent

title belligerent
type string
format default

8.1.3 full_name

title Name
type string
format default

Name of the commander

8.1.4 last_name

title Last Name
type string
format default

8.1.5 first_name

title First Name
type string
format default

8.1.6 middle_name

title Middle Name
type string
format default

8.1.7 suffix

title Suffix
type number
format default
8.1.8 rank

    title  Rank
    type   string
    format default

rank of the commander

8.1.9 dbpedia

    title  Dbpedia
    type   string
    format url

dbpedia.org URI of the commander

Sources: [Bodart1908]
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]

# 9.1 Schema

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>battle_id</td>
<td>string</td>
<td>Battle id</td>
</tr>
<tr>
<td>belligerent</td>
<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>
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<tr>
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<td>integer</td>
<td>cavalry</td>
</tr>
<tr>
<td>artillery</td>
<td>integer</td>
<td>Artillery</td>
</tr>
<tr>
<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>killedgenerals</td>
<td>integer</td>
<td>killed_generals</td>
</tr>
<tr>
<td>killedofficers</td>
<td>integer</td>
<td>killed_officers</td>
</tr>
</tbody>
</table>

Continued on next page
Table 1 – continued from previous page

<table>
<thead>
<tr>
<th>killed_wounded</th>
<th>integer</th>
<th>killed_wounded</th>
</tr>
</thead>
<tbody>
<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>
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<tr>
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<td>Generals wounded</td>
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<tr>
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<td>Officers wounded</td>
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<tr>
<td>captured</td>
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<td>captured</td>
</tr>
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<td>captured_generals</td>
<td>integer</td>
<td>Generals captured</td>
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<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>
<td>Generals missing</td>
</tr>
<tr>
<td>missing_officers</td>
<td>integer</td>
<td>Officers missing</td>
</tr>
<tr>
<td>casualties</td>
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<td>number</td>
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<td>Casualties (officers)</td>
</tr>
<tr>
<td>casualties_generals</td>
<td>integer</td>
<td>Casualties (generals)</td>
</tr>
<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>

### 9.1.1 battle_id

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

### 9.1.2 belligerent

**title** belligerent  
**type** string  
**format** default

### 9.1.3 strength

**title** Strength  
**type** integer  
**format** default

Total personnel
9.1.4 **strength_engaged**

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

Personnel engaged in combat

9.1.5 **infantry**

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

Number of infantry

9.1.6 **cavalry**

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

Number of cavalry

9.1.7 **artillery**

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

Number of artillery personnel

9.1.8 **guns**

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

Number of guns (artillery pieces)

9.1.9 **killed**

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

- **Title**: Killed (percent)
- **Type**: number
- **Format**: default
- **Constraints**:
  - minimum: 0
  - maximum: 1

### 9.1.11 killed_generals

- **Title**: killed_generals
- **Type**: integer
- **Format**: default

### 9.1.12 killed_officers

- **Title**: killed_officers
- **Type**: integer
- **Format**: default

### 9.1.13 killed_wounded

- **Title**: killed_wounded
- **Type**: integer
- **Format**: default

### 9.1.14 killed_wounded_percent

- **Title**: Killed Wounded (percent)
- **Type**: number
- **Format**: default
- **Constraints**:
  - minimum: 0
  - maximum: 1

### 9.1.15 killed_wounded GENERALS

- **Title**: Generals killed or wounded
- **Type**: integer
- **Format**: default
9.1.16 killed_wounded_officers

  title Officers killed or wounded
  type integer
  format default

9.1.17 wounded

  title wounded
  type integer
  format default

9.1.18 wounded_percent

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

9.1.19 wounded GENERALS

  title Generals wounded
  type integer
  format default

9.1.20 woundedOfficers

  title Officers wounded
  type integer
  format default

9.1.21 captured

  title captured
  type integer
  format default
9.1.22 captured_generals

  title  Generals captured
  type  integer
  format  default

9.1.23 captured_officers

  title  Officers captured
  type  integer
  format  default

9.1.24 missing

  title  missing
  type  integer
  format  default

9.1.25 missing_percent

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

9.1.26 missing_generals

  title  Generals missing
  type  integer
  format  default

9.1.27 missing_officers

  title  Officers missing
  type  integer
  format  default
9.1.28 casualties

   title  Casualties
   type   integer
   format default

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

9.1.29 casualties_percent

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

9.1.30 casualties_officers

   title  Casualties (officers)
   type   integer
   format default

9.1.31 casualties_generals

   title  Casualties (generals)
   type   integer
   format default

9.1.32 losses_guns

   title  Losses of guns
   type   integer
   format default

9.1.33 losses_caissons

   title  Losses of caissons
   type   integer
   format default
9.1.34 losses_cannon

title Losses of cannons
type integer
format default

9.1.35 losses_canons

title losses_canons
type number
format default

9.1.36 losses_flags

title Losses of flags
type integer
format default

9.1.37 losses_munition_wagons

title Losses of munition wagons
type integer
format default

9.1.38 losses_wagons

title Losses of wagons
type integer
format default

9.1.39 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]
10.1 Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>Battle Id.</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>full_name</td>
<td>string</td>
<td>full_name</td>
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<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>
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<tr>
<td>date</td>
<td>date</td>
<td>date</td>
</tr>
<tr>
<td>dbpedia</td>
<td>string</td>
<td>Dbpedia URI</td>
</tr>
</tbody>
</table>

10.1.1 battle_id

title  Battle Id.
type   string
format default

10.1.2 belligerent

title  belligerent
type   string
format default

10.1.3 full_name

title  full_name
type   string
format default

10.1.4 last_name

title  Last name
type   string
format default

10.1.5 first_name

title  First name
type   string
format default
10.1.6 middle_name

title Middle name
type string
format default

10.1.7 suffix

title Suffix
type number
format default

10.1.8 rank

title Rank
type string
format default

Rank of the general

10.1.9 date

title date
type date
format default

Date the general was killed (if given).

10.1.10 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* [Schwab1901]. 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]

### 13.1 Schema

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

### 13.1.1 date

title Date
type date
format default

First day of the quarter

13.1.2 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:

14.1 Schema

<table>
<thead>
<tr>
<th>field</th>
<th>type</th>
<th>description</th>
</tr>
</thead>
<tbody>
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<td>Battle</td>
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<td>url</td>
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<td>date</td>
<td>Start date</td>
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<tr>
<td>dbpedia_url</td>
<td>string</td>
<td>dbpedia.org link</td>
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</tbody>
</table>
14.1.1 battle_id

    title Battle
    type string
    format default

14.1.2 battle_name

    title battle_name
    type string
    format default

14.1.3 url

    title url
    type string
    format url

URL of the battle on civilwar.org.

14.1.4 start_date

    title Start date
    type date
    format default

14.1.5 end_date

    title End date
    type date
    format default

14.1.6 alternate_names

    title Alternate Names
    type string
    format default

14.1.7 location

    title Locations
    type string
    format default
14.1.8 state

title state
type string
format default

14.1.9 campaign

title Campaign
type string
format default

Campaign of the battle.

14.1.10 result

title Result
type string
format default

Battle result: Union victory, Confederate victory, or Inconclusive

14.1.11 total_casualties

title Total casualties
type string
format default

Total of Confederate and Union casualties

14.1.12 total_strength

title Total strength
type string
format default

Total of Confederate and Union strength (forces engaged).

14.1.13 cwsac_id

title CWSAC Id.
type string
format default

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

Sources:

**14.1.14 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 Batt data from civilwar.org.

Sources:

### 15.1 Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>Battle</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
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<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>

#### 15.1.1 battle_id

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

#### 15.1.2 belligerent

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

15.1.3 name

  title  Commander Name
  type   string
  format default

15.1.4 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 Batte data from civilwar.org.

Sources:

16.1 Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>Battle</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
<td>string</td>
<td>Belligerent</td>
</tr>
<tr>
<td>strength</td>
<td>integer</td>
<td>Strength</td>
</tr>
<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>

16.1.1 battle_id

<table>
<thead>
<tr>
<th>title</th>
<th>Battle</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>
16.1.2 belligerent

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

16.1.3 strength

   title  Strength
   type  integer
   format  default
   constraints

   Troops engaged in the battle.

16.1.4 casualties

   title  Total casualties
   type  integer
   format  default
   constraints

16.1.5 killed

   title  Killed
   type  integer
   format  default
   constraints

16.1.6 wounded

   title  Wounded
   type  integer
   format  default
   constraints
16.1.7 killed_wounded

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

16.1.8 missing_captured

- **title**: Missing and Captured
- **type**: integer
- **format**: default
- **constraints**
Clodfelter (2008) battle data: battles

```plaintext
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 sensible 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** is 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 (Manasas)** [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]

17.1 Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>battle_id</th>
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</thead>
<tbody>
<tr>
<td>theater</td>
<td>string</td>
<td>Theater</td>
</tr>
<tr>
<td>theater_years</td>
<td>string</td>
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<td>start_date</td>
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<td>Start date</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>End Date</td>
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<tr>
<td>page</td>
<td>integer</td>
<td>Page</td>
</tr>
</tbody>
</table>

17.1.1 battle_id

title  battle_id
type   string
format  default

17.1.2 theater

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

17.1.3 theater_years

title  theater_years
type   string
format  default
constraints

17.1.4 start_date

title  Start date
type   date
format  default
17.1.5 end_date

- title End Date
- type date
- format default

17.1.6 result

- title Result
- type string
- format default
- 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]

17.1.7 page

- title Page
- type integer
- format default

Page number in Clodfelter (2008)
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]

### 18.1 Schema

<table>
<thead>
<tr>
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</tr>
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</table>

### 18.1.1 battle_id

**title** battle_id
18.1.2 belligerent

title  belligerent
  type  string
  format  default

18.1.3 commander_number

title  commander_number
  type  integer
  format  default

18.1.4 PersonID

title  PersonID
  type  string
  format  default

18.1.5 last_name

title  last_name
  type  string
  format  default

18.1.6 first_name

title  first_name
  type  string
  format  default

18.1.7 middle_name

title  middle_name
  type  string
  format  default
18.1.8 middle_initial

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

18.1.9 rank

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

18.1.10 navy

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

**name** clodfelter_forces

**path** clodfelter_forces.csv

**format** csv

Sources: [Clodfelter2008]

### 19.1 Schema

<table>
<thead>
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Continued on next page
### Table 1 – continued from previous page

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<td>Killed</td>
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<td>Wounded</td>
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<tr>
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<td>Missing</td>
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<tr>
<td>killed_wounded</td>
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</tr>
<tr>
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<td>integer</td>
<td>Missing or Captured</td>
</tr>
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<td>integer</td>
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<td>integer</td>
<td>Warships Sunk</td>
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<td>warships_damaged</td>
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<td>gunboats_sunk</td>
<td>integer</td>
<td>Gunboats Sunk</td>
</tr>
<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>
<td>integer</td>
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<td>Note</td>
</tr>
<tr>
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<td>number</td>
<td>Strength (mean)</td>
</tr>
<tr>
<td>str_var</td>
<td>number</td>
<td>Strength (variance)</td>
</tr>
</tbody>
</table>

### 19.1.1 battle_id

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

### 19.1.2 belligerent

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

### 19.1.3 strength

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

Chapter 19. Clodfelter (2008) battle data: forces
minimum 0
Total number of personnel in the battle

### 19.1.4 infantry

title Infantry personnel
type integer
format default
constraints
minimum 0
Total number of infantry in the battle

### 19.1.5 cavalry

title Cavalry personnel
type integer
format default
constraints
minimum 0
Total number of cavalry in the battle

### 19.1.6 crewmen

title Crewmen
type integer
format default
constraints
minimum 0
Total number of naval crew in the battle

### 19.1.7 corps

title corps
type integer
format default
constraints
minimum 0
Number of corps in the battle
19.1.8 cavalry_corps

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

19.1.9 divisions

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

19.1.10 cavalry_divisions

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

19.1.11 brigades

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

- title: Companies
- type: integer
- format: default
- constraints
  - minimum: 0

Number of companies in the battle

19.1.13 frigates

- title: frigates
- type: integer
- format: default
- constraints
  - minimum: 0

19.1.14 gunboats

- title: Gunboats
- type: integer
- format: default
- constraints
  - minimum: 0

19.1.15 ironclads

- title: Ironclads
- type: integer
- format: default
- constraints
  - minimum: 0

19.1.16 sloops

- title: Sloops
- type: integer
- format: default
- constraints
  - minimum: 0
19.1.17 steamers

    title  Steamers
    type   integer
    format default
    constraints
           minimum 0

19.1.18 warships_and_transports

    title  Warships and Transports
    type   integer
    format default
    constraints
           minimum 0

19.1.19 warships

    title  Warships
    type   integer
    format default
    constraints
           minimum 0

19.1.20 wooden_warships

    title  Wooden Warships
    type   integer
    format default
    constraints
           minimum 0

19.1.21 guns

    title  Guns
    type   integer
    format default
    constraints
           minimum 0

Number of artillery pieces
19.1.22 casualties

   title  Casualties
   type   integer
   format default
   constraints
       minimum 0

Casualties (killed, wounded, and missing or captured)

19.1.23 captured

   title  Captured
   type   integer
   format default
   constraints
       minimum 0

19.1.24 killed

   title  Killed
   type   integer
   format default
   constraints
       minimum 0

19.1.25 wounded

   title  Wounded
   type   integer
   format default
   constraints
       minimum 0

19.1.26 missing

   title  Missing
   type   integer
   format default
   constraints
       minimum 0
19.1.27 killed_wounded

    title  Killed or Wounded
    type   integer
    format default
    constraints
       minimum 0

19.1.28 killed_missing

    title  Killed or Missing
    type   integer
    format default
    constraints
       minimum 0

19.1.29 missing_captured

    title  Missing or Captured
    type   integer
    format default
    constraints
       minimum 0

19.1.30 wounded_missing

    title  Wounded or Missing
    type   integer
    format default
    constraints
       minimum 0

19.1.31 guns_lost

    title  Guns Lost
    type   integer
    format default
    constraints
       minimum 0

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

    title  guns_captured
    type   number
    format default

19.1.33 small_arms_lost

    title  Small Arms Lost
    type   integer
    format default
    constraints
            minimum 0

Number of small arms captured by the opponent.

19.1.34 small_arms_captured

    title  small_arms_captured
    type   number
    format default

19.1.35 warships_sunk

    title  Warships Sunk
    type   integer
    format default
    constraints
            minimum 0

Number of warships sunk by the opponent.

19.1.36 warships_damaged

    title  Warships Damaged
    type   integer
    format default
    constraints
            minimum 0

Number of warships damaged by the opponent.
19.1.37 gunboats_sunk

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

19.1.38 gunboats_captured

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

19.1.39 ironclads_sunk

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

19.1.40 ironclads_captured

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

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

Number of forts captured by the opponent.

19.1.42 note

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

19.1.43 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]

19.1.44 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]
Chapter 20. Correspondence between Clodfelter and CWSAC battles.
clodfelter_to_dbpedia

- **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], [CWSIAR], [CWSIICO], [CWSIIDC], [CWSIIFL], [CWSIIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIILA], [CWSIIMD], [CWSIIIMO], [CWSIIINC], [CWSIIND], [CWSIIHO], [CWSIIOK], [CWSIIIPA], [CWSIIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]

23.1 Schema

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<th>Description</th>
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<tbody>
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<td>string</td>
<td>Battle</td>
</tr>
<tr>
<td>battle_name</td>
<td>string</td>
<td>Battle Name</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>campaign</td>
<td>string</td>
<td>Campaign</td>
</tr>
<tr>
<td>url</td>
<td>string</td>
<td>url</td>
</tr>
<tr>
<td>forces_text</td>
<td>string</td>
<td>Forces</td>
</tr>
<tr>
<td>strength</td>
<td>integer</td>
<td>Strength</td>
</tr>
<tr>
<td>results_text</td>
<td>string</td>
<td>Results (text)</td>
</tr>
<tr>
<td>result</td>
<td>number</td>
<td>result</td>
</tr>
<tr>
<td>study_area</td>
<td>number</td>
<td>Study Area</td>
</tr>
<tr>
<td>core_area</td>
<td>number</td>
<td>core_area</td>
</tr>
<tr>
<td>potnr_boundary</td>
<td>number</td>
<td>potnr_boundary</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>

23.1.1 battle

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

CWSAC battle identifier

23.1.2 battle_name

title Battle Name
type string
format default

23.1.3 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.

23.1.4 campaign

title Campaign
type string
format default

Campaign of the battle

23.1.5 url

title url
type string
format url

URL of the CWSAC Updated report
23.1.6 forces_text

   title Forces
   type string
   format default

Text description of the forces involved in the battle

23.1.7 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.

23.1.8 results_text

   title Results (text)
   type string
   format default

Description of the result of the battle

23.1.9 result

   title result
   type number
   format default

Battle result

23.1.10 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.

### 23.1.11 core_area

<table>
<thead>
<tr>
<th>title</th>
<th>core_area</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>number</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

### 23.1.12 potnr_boundary

<table>
<thead>
<tr>
<th>title</th>
<th>potnr_boundary</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>number</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

### 23.1.13 strength_mean

<table>
<thead>
<tr>
<th>title</th>
<th>Strength (mean)</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>number</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
<tr>
<td>constraints</td>
<td></td>
</tr>
</tbody>
</table>

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

Sources: [CWSII], [CWSIIAL], [CWSIIAR], [CWSIIICO], [CWSIIIDC], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIIMN], [CWSIIIA], [CWSIIID], [CWSIIIMO], [CWSIIINC], [CWSIIIND], [CWSIIOH], [CWSIIOK], [CWSIIIPA], [CWSIIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]

### 23.1.14 strength_var

<table>
<thead>
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<tbody>
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<tr>
<td>format</td>
<td>default</td>
</tr>
<tr>
<td>constraints</td>
<td></td>
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</table>

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

Sources: [CWSII], [CWSIIAL], [CWSIIAR], [CWSIIICO], [CWSIIIDC], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIIMN], [CWSIIIA], [CWSIIID], [CWSIIIMO], [CWSIIINC], [CWSIIIND], [CWSIIOH], [CWSIIOK], [CWSIIIPA], [CWSIIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]
minimum 0

Variance 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], [CWSIIA], [CWSIIMD], [CWSIIIMO], [CWSIIINC], [CWSIIND], [CWSIIHOH], [CWSIIHK], [CWSIIPA], [CWSIIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]
CWSAC Report Updates: commanders

name cws2_commanders
path cws2_commanders.csv
format csv

Sources: [CWSII], [CWSIIAL], [CWSIIAR], [CWSIIICO], [CWSIIIDC], [CWSIIIGA], [CWSIIKS], [CWSIIKY], [CWSIIIM], [CWSIIIL], [CWSIIMD], [CWSIIMO], [CWSIINC], [CWSIIIND], [CWSIIHO], [CWSIIOK], [CWSIIPA], [CWSIIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]

24.1 Schema

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<tr>
<td>suffix</td>
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<td>Suffix</td>
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</tbody>
</table>

24.1.1 battle

title Battle
type string
format default
constraints
        minLength 5
CWSAC battle identifier

24.1.2 belligerent

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

24.1.3 fullname

  title  Full name
  type   string
  format default

24.1.4 rank

  title  Rank
  type   string
  format default

Rank of the commander at the time of the battle

24.1.5 last_name

  title  Last Name
  type   string
  format default

24.1.6 first_name

  title  First Name
  type   string
  format default
24.1.7 middle_name

title  Middle Name

type  string

format  default

24.1.8 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], [CWSIIICO], [CWSIIIDC], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIIMN], [CWSIIILA], [CWSIIIMD], [CWSIIIMO], [CWSIIINC], [CWSIIIND], [CWSIIOH], [CWSIIOK], [CWSIIIPA], [CWSIIISC], [CWSIIITN], [CWSIIIVA], [CWSIIWV]

### 25.1 Schema

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

#### 25.1.1 battle

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

CWSAC battle identifier
25.1.2 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.

25.1.3 start_date

    title Start Date
    type date
    format default

25.1.4 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:  [CWSII], [CWSIIAL], [CWSIIAR], [CWSIIICO], [CWSIIIDC], [CWSIIFL], [CWSIIIGA], [CWSIIIKS], [CWSIIKY], [CWSIIIMN], [CWSIIILA], [CWSIIIMD], [CWSIIIMO], [CWSIIINC], [CWSIIIND], [CWSIIIOH], [CWSIIIOK], [CWSIIPA], [CWSIIISC], [CWSIITN], [CWSIIIVA], [CWSIIWV]
26.1 Schema

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<th>Description</th>
</tr>
</thead>
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<td>battle</td>
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<td>Battle</td>
</tr>
<tr>
<td>belligerent</td>
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</tr>
<tr>
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<td>string</td>
<td>Description</td>
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<td>strength</td>
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<td>regiments</td>
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<td>companies</td>
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<td>companies</td>
</tr>
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<td>brigades</td>
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<td>brigades</td>
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<td>divisions</td>
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</tr>
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<td>Cavalry Regiments</td>
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<td>cavalry_brigades</td>
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<td>cavalry_divisions</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>
<td>integer</td>
<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>

26.1.1 battle

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

CWSAC battle identifier

26.1.2 belligerent

title belligerent
type string
format default
constraints
enum [‘US’, ‘Confederate’, ‘Native American’]

26.1.3 description

title Description
type string
format default

Description of the units involved

26.1.4 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.

26.1.5 regiments

title Regiments
type integer
format default

constraints
minimum 0

Number of regiments

26.1.6 companies

title companies
type integer
format default

constraints
minimum 0

Number of companies
26.1.7 brigades

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

26.1.8 divisions

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

26.1.9 corps

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

26.1.10 armies

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

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

Number of cavalry regiments

26.1.12 cavalry_brigades

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

Number of cavalry brigades

26.1.13 cavalry_divisions

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

Number of cavalry divisions

26.1.14 cavalry_corps

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

Number of cavalry corps
26.1.15 cavalry_companies

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

26.1.16 artillery_batteries

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

26.1.17 artillery_companies

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

26.1.18 artillery_regiments

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

  title  Artillery Sections
  type  integer
  format  default
  constraints
    minimum  0
Number of artillery sections

26.1.20 infantry_regiments

  title  Infantry Regiments
  type  integer
  format  default
  constraints
    minimum  0
Number of infantry regiments

26.1.21 strength_other

  title  Strength (other)
  type  integer
  format  default
  constraints
    minimum  0
Number of personnel involved other than the units listed in the description.

26.1.22 ships

  title  Ships
  type  integer
  format  default
  constraints
    minimum  0
Number of ships involved in the battle
26.1.23 **guns**

- **title** Guns
- **type** integer
- **format** default
- **constraints**
  - minimum 0

Number of artillery pieces involved in the battle

26.1.24 **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], [CWSIICO], [CWSIIDC], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIILA], [CWSIIMD], [CWSIIMO], [CWSIIINC], [CWSIIND], [CWSIIHO], [CWSIIOH], [CWSIIOK], [CWSIIPA], [CWSIISC], [CWSIITN], [CWSIIWA], [CWSIIWV]

26.1.25 **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], [CWSIICO], [CWSIIDC], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIILA], [CWSIIMD], [CWSIIMO], [CWSIIINC], [CWSIIND], [CWSIIHO], [CWSIIOK], [CWSIIPA], [CWSIISC], [CWSIITN], [CWSIIWA], [CWSIIWV]
CWSAC Report Updates battle data: locations

name  cws2_locations
path  cws2_locations.csv
format  csv

Sources:  [CWSII], [CWSIIAL], [CWSIIAR], [CWSIICO], [CWSIIFL], [CWSIIGA], [CWSIIKS], [CWSIIKY], [CWSIIMN], [CWSIILA], [CWSIIMD], [CWSIIOM], [CWSIIINC], [CWSIIND], [CWSIIOH], [CWSIIOK], [CWSIIPA], [CWSIIASC], [CWSIITN], [CWSIIVA], [CWSIIWV]

27.1 Schema

<table>
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<tr>
<th>battle</th>
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<th>Battle</th>
</tr>
</thead>
<tbody>
<tr>
<td>state</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>location</td>
<td>string</td>
<td>County or City</td>
</tr>
</tbody>
</table>

27.1.1 battle

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

CWSAC battle identifier
27.1.2 state

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

2-letter State abbreviation

27.1.3 location

title County or City
type string
format default

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

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

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:
CWSAC Report battle data: battles

name  cwsac_battles
path  cwsac_battles.csv
format csv

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/battles/tvii.htm
• http://www.nps.gov/hps/abpp/cwsac/cws0-1.html

Sources: [CWSAC1993], [CWSAC1997], [CWSAC_by_state], [CWSAC_by_campgn]
29.1 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>

29.1.1 battle

title  Battle
type   string
format  default

constraints

  minLength  5
  maxLength  6

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

CWSAC battle identifier

29.1.2 url

title  url
type   string
format  url

URL of the battle summary
29.1.3 battle_name

title  Battle Name
type   string
format default

29.1.4 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).

29.1.5 state

title  State
type   string
format default

constraints

  minLength 2
  maxLength 2
  pattern [A-Z][A-Z]

2-letter State abbreviation

29.1.6 locations

title  Locations
type   string
format default

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

29.1.7 campaign

title  Campaign
type   string
format default

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

title Start Date
type date
format default

29.1.9 end_date

title End Date
type date
format default

29.1.10 operation

title operation
type boolean
format default

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

29.1.11 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.

29.1.12 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.

29.1.13 result

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

29.1.14 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.

29.1.15 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.

29.1.16 casualties_text

title casualties_text
type string
format default

Description of the casualties of the battle.

29.1.17 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
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.


29.1.18 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.


American Civil War Battle Data Documentation, Release 8.0.0


29.1.19 preservation

<table>
<thead>
<tr>
<th>title</th>
<th>Preservation Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

29.1.20 significance

<table>
<thead>
<tr>
<th>title</th>
<th>Military significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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

29.1.21 strength_mean

<table>
<thead>
<tr>
<th>title</th>
<th>Strength (mean)</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>number</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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]
29.1.22 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]

30.1 Schema

| campaign | string | Campaign |
| theater  | string | Theater  |
| start_year | integer | Start year |
| start_month | integer | Start month |
| end_year | integer | End year |
| end_month | integer | End Month |
| dbpedia | string | dbpedia |

30.1.1 campaign

    title  Campaign
    type   string
    format default

Campaign name

30.1.2 theater

    title  Theater
Theater of the campaign

30.1.3 start_year

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

30.1.4 start_month

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

30.1.5 end_year

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

30.1.6 end_month

title End Month
type integer
format default
constraints
  minimum 1
  maximum 12
30.1.7 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]

### 31.1 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>

### 31.1.1 battle

**title** battle

**type** string

**format** default
31.1.2 belligerent

    title  belligerent
    type  string
    format  default

31.1.3 fullname

    title  fullname
    type  string
    format  default

31.1.4 rank

    title  rank
    type  string
    format  default

31.1.5 navy

    title  navy
    type  integer
    format  default

31.1.6 first_name

    title  first_name
    type  string
    format  default

31.1.7 last_name

    title  last_name
    type  string
    format  default

31.1.8 middle_name

    title  middle_name
    type  string
    format  default
### 31.1.9 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]
32.1 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>
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<td>string</td>
<td>description</td>
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<td>strength_min</td>
<td>number</td>
<td>strength_min</td>
</tr>
<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>
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<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>

32.1.1 battle

title  Battle

type  string

format  default

constraints

minLength  5

maxLength  6

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

CWSAC battle identifier

32.1.2 belligerent

title  belligerent

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

### 32.1.3 description

`title` description  
`type` string  
`format` default

Description of the force, often including the units involved.

### 32.1.4 strength_min

`title` strength_min  
`type` number  
`format` default

Minimum forces engaged.

### 32.1.5 strength_max

`title` strength_max  
`type` number  
`format` default

Maximum sources engaged.

### 32.1.6 armies

`title` armies  
`type` number  
`format` default

### 32.1.7 corps

`title` corps  
`type` number  
`format` default
32.1.8 divisions

title divisions
type number
format default

32.1.9 brigades

title brigades
type number
format default

32.1.10 regiments

title regiments
type number
format default

32.1.11 companies

title companies
type number
format default

32.1.12 cavalry_regiments

title cavalry_regiments
type number
format default

32.1.13 cavalry_brigades

title cavalry_brigades
type number
format default

32.1.14 cavalry_corps

title cavalry_corps
type number
format default
32.1.15 cavalry_divisions

    title  cavalry_divisions
    type   number
    format default

32.1.16 artillery_batteries

    title  artillery_batteries
    type   number
    format default

32.1.17 ships

    title  ships
    type   number
    format default

32.1.18 ironclads

    title  ironclads
    type   number
    format default

32.1.19 gunboats

    title  gunboats
    type   number
    format default

32.1.20 wooden_ships

    title  wooden_ships
    type   number
    format default

32.1.21 rams

    title  rams
    type   number
    format default
32.1.22 casualties

title casualties
type number
format default

32.1.23 killed

title killed
type number
format default

32.1.24 wounded

title wounded
type number
format default

32.1.25 missing

title missing
type number
format default

32.1.26 captured

title captured
type number
format default

32.1.27 strength_mean

title strength_mean
type number
format default

32.1.28 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]

### 33.1 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>

#### 33.1.1 value

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

#### 33.1.2 description

- **title**  Description
- **type**  string
- **format**  default
CHAPTER 34

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_campaign]

### 34.1 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>

#### 34.1.1 value

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

#### 34.1.2 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]

35.1 Schema

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

35.1.1 theater

- title  Theater
- type   string
- format default

35.1.2 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]

35.1.3 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]

### 36.1 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>
</tr>
<tr>
<td>companies</td>
<td>number</td>
<td>companies</td>
</tr>
<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>
36.1.1 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

36.1.2 Comment

    title Comment
    type string
    format default

36.1.3 Source

    title Source
    type string
    format default

36.1.4 UnitCode

    title Unit code
    type string
    format default

36.1.5 companies

    title companies
    type number
    format default

36.1.6 batteries

    title batteries
    type number
    format default
36.1.7 detachment
  
  title detachment
  type number
  format default

36.1.8 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](CWSAC_Report_battle_data)) with a few exceptions, some of which appear to be errors. This data was extracted from the CWSS database file battle.xml.

Sources: [CWSS]

### 37.1 Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BattlefieldCode</td>
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<td>Battlefield code</td>
</tr>
<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>
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<td>Comment</td>
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<td>integer</td>
<td>ID</td>
</tr>
<tr>
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<td>Short summary</td>
</tr>
<tr>
<td>ShortSummarySource</td>
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<td>Short summary source</td>
</tr>
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<td>Summary</td>
<td>string</td>
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<tr>
<td>SummarySource</td>
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<td>Summary source</td>
</tr>
<tr>
<td>URL</td>
<td>string</td>
<td>URL</td>
</tr>
</tbody>
</table>
37.1.1 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

37.1.2 BattleName

**title** Battle name

**type** string

**format** default

37.1.3 BattleType

**title** Battle type

**type** string

**format** default

37.1.4 BeginDate

**title** Begin date

**type** date

**format** default

37.1.5 EndDate

**title** End date

**type** date

**format** default

37.1.6 State

**title** State

**type** string

**format** default

**constraints**
37.1.7 TheaterCode

title TheaterCode
type string
format default

37.1.8 CampaignCode

title CampaignCode
type string
format default

37.1.9 Result

title Result
type string
format default

37.1.10 TotalCasualties

title TotalCasualties
type integer
format default
constraints
minimum 0

37.1.11 Comment

title Comment
type string
format default

37.1.12 ID

title ID
type integer
format default
37.1.13 ShortSummary

- **title**: Short summary
- **type**: string
- **format**: default

37.1.14 ShortSummarySource

- **title**: Short summary source
- **type**: string
- **format**: default

37.1.15 Summary

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

37.1.16 SummarySource

- **title**: Summary source
- **type**: string
- **format**: default

37.1.17 URL

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

### 38.1 Schema

<table>
<thead>
<tr>
<th>name</th>
<th></th>
<th></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>

#### 38.1.1 CampaignCode

- **title** Campaign code
- **type** string
- **format** default
38.1.2 CampaignName

title Campaign name
type string
format default

38.1.3 CampaignDates

title Campaign dates
type string
format default

38.1.4 CampaignStartDate

title Campaign start date
type date
format default

38.1.5 CampaignEndDate

title Campaign end date
type date
format default

38.1.6 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:

39.1 Schema

<table>
<thead>
<tr>
<th>category</th>
<th>string</th>
<th>category</th>
<th>string</th>
</tr>
</thead>
<tbody>
<tr>
<td>abbr</td>
<td>string</td>
<td>abbr</td>
<td></td>
</tr>
<tr>
<td>description</td>
<td>string</td>
<td>Description</td>
<td>string</td>
</tr>
</tbody>
</table>

39.1.1 category

title category

type string

constraints

enum ['SCharacter', 'Unitype', 'Function']
If “SCharacter”, an abbreviation for the column special (speical 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).

### 39.1.2 abbr

<table>
<thead>
<tr>
<th>title</th>
<th>abbr</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

**Constraints**

- **minLength**: 1
- **maxLength**: 1
- **pattern**: [A-Z0]

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

### 39.1.3 description

<table>
<thead>
<tr>
<th>title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>
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]

40.1 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>

40.1.1 BattlefieldCode

title  Battlefield code
type  string
format  default
constraints

minLength  5
maxLength  6
**American Civil War Battle Data Documentation, Release 8.0.0**

**pattern** [A-Z][0-9]{3}[A-Z]?
CWSAC battle identifier

### 40.1.2 belligerent

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

**constraints**

- **enum** ['US', 'Confederate', 'Native American']

### 40.1.3 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.

### 40.1.4 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]

41.1 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>

41.1.1 BattlefieldCode

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

41.1.2 belligerent

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

41.1.3 TroopsEngaged

    title  Troops engaged
    type  integer
    format default
    constraints
        minimum 0

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

41.1.4 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]

### 42.1 Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PersonID</td>
<td>string</td>
<td>PersonID</td>
</tr>
<tr>
<td>ID</td>
<td>integer</td>
<td>ID</td>
</tr>
<tr>
<td>LastName</td>
<td>string</td>
<td>LastName</td>
</tr>
<tr>
<td>Suffix</td>
<td>string</td>
<td>Suffix</td>
</tr>
<tr>
<td>FirstName</td>
<td>string</td>
<td>FirstName</td>
</tr>
<tr>
<td>MiddleName</td>
<td>string</td>
<td>MiddleName</td>
</tr>
<tr>
<td>MiddleInitial</td>
<td>string</td>
<td>MiddleInitial</td>
</tr>
<tr>
<td>Rank</td>
<td>string</td>
<td>Rank</td>
</tr>
<tr>
<td>Bio</td>
<td>string</td>
<td>Bio</td>
</tr>
<tr>
<td>BioSource</td>
<td>string</td>
<td>BioSource</td>
</tr>
<tr>
<td>NarrativeLink1</td>
<td>string</td>
<td>NarrativeLink1</td>
</tr>
<tr>
<td>NarrativeLink2</td>
<td>string</td>
<td>NarrativeLink2</td>
</tr>
</tbody>
</table>

### 42.1.1 PersonID

**title** PersonID
type string
format uuid

42.1.2 ID

title ID
type integer
format default

42.1.3 LastName

title LastName
type string
format default

42.1.4 Suffix

title Suffix
type string
format default

42.1.5 FirstName

title FirstName
type string
format default

42.1.6 MiddleName

title MiddleName
type string
format default

42.1.7 MiddleInitial

title MiddleInitial
type string
format default
42.1.8 Rank

title Rank
type string
format default

42.1.9 Bio

title Bio
type string
format default

42.1.10 BioSource

title BioSource
type string
format default

42.1.11 NarrativeLink1

title NarrativeLink1
type string
format default

42.1.12 NarrativeLink2

title NarrativeLink2
type string
format default
CWSS people data: keywords

name cwss_people_keywords
path cwss_people_keywords.csv
format csv

Sources:

### 43.1 Schema

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

#### 43.1.1 PersonID

- **title** PersonID
- **type** string
- **format** uuid

CWSS person identifier. See *CWSS people*.

#### 43.1.2 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:

44.1 Schema

<table>
<thead>
<tr>
<th>unit_code</th>
<th>string</th>
<th>unit_code</th>
</tr>
</thead>
<tbody>
<tr>
<td>side</td>
<td>string</td>
<td>Side</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>ordinal</td>
<td>string</td>
<td>ordinal</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>Type</td>
</tr>
<tr>
<td>special</td>
<td>string</td>
<td>Special</td>
</tr>
<tr>
<td>duplicate</td>
<td>number</td>
<td>duplicate</td>
</tr>
<tr>
<td>ethnic</td>
<td>string</td>
<td>ethnic</td>
</tr>
<tr>
<td>unit_name</td>
<td>string</td>
<td>Unit name</td>
</tr>
<tr>
<td>notes</td>
<td>string</td>
<td>Notes</td>
</tr>
<tr>
<td>func</td>
<td>string</td>
<td>func</td>
</tr>
</tbody>
</table>

44.1.1 unit_code

title unit_code
type  string
format  default

44.1.2 side

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

Side of each force

44.1.3 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.

44.1.4 ordinal

title  ordinal
type  string
format  default

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

44.1.5 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.
44.1.6 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.

44.1.7 duplicate

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

44.1.8 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.

44.1.9 unit_name

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

44.1.10 notes

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

44.1.11 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:

### 45.1 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>

#### 45.1.1 abbr

- **title**: Abbreviation
- **type**: string
- **format**: default
- **constraints**
  - `minLength` 2
  - `maxLength` 2
  - `pattern` [A-Z]{2}
### 45.1.2 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]

### 46.1 Schema

<table>
<thead>
<tr>
<th>name</th>
<th>cwss_theaters</th>
</tr>
</thead>
<tbody>
<tr>
<td>path</td>
<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]

## 46.1 Schema

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

### 46.1.1 TheaterCode

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

### 46.1.2 TheaterName

- **title**: Theater name
- **type**: string
format default
CWSS Unit Titles

name cwss_unit_tiles
path cwss_unit_tiles.csv
format csv

Sources:

47.1 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>

47.1.1 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.

47.1.2 side

title side
47.1.3 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),

- Campagns, 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]
48.1 Schema

<table>
<thead>
<tr>
<th>slug</th>
<th>string</th>
<th>slug</th>
</tr>
</thead>
<tbody>
<tr>
<td>state</td>
<td>string</td>
<td>State</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>nature_location</td>
<td>string</td>
<td>nature_location</td>
</tr>
<tr>
<td>troops_engaged</td>
<td>string</td>
<td>troops_engaged</td>
</tr>
<tr>
<td>event_type</td>
<td>string</td>
<td>Event type</td>
</tr>
<tr>
<td>casualties</td>
<td>integer</td>
<td>Casualties</td>
</tr>
<tr>
<td>killed_wounded</td>
<td>number</td>
<td>Killed or Wounded</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>missing_captured</td>
<td>number</td>
<td>Missing Captured</td>
</tr>
</tbody>
</table>

48.1.1 slug

title  slug
type   string
format default

48.1.2 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

48.1.3 start_date

title Start Date
type date
format default
48.1.4 end_date

title End date
type date
format default

48.1.5 nature_location

title nature_location
type string
format default

48.1.6 troops_engaged

title troops_engaged
type string
format default

48.1.7 event_type

title Event type
type string
format default
Event type: action, skirmish, siege, etc

48.1.8 casualties

title Casualties
type integer
format default
constraints
  minimum 0
Union casualties (killed, wounded, and missing or captured).

48.1.9 killed_wounded

title Killed or Wounded
type number
format default
constraints
  minimum 0
Union killed or wounded

### 48.1.10 killed

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

Union killed

### 48.1.11 wounded

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

Union wounded

### 48.1.12 missing_captured

- **title**: Missing Captured
- **type**: number
- **format**: default
- **constraints**
  - minimum: 0

Union missing or captured
name  dyer_to_cwsac
path  dyer_to_cwsac.json
format  json

Sources:
CHAPTER 50

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]

### 50.1 Schema

<table>
<thead>
<tr>
<th>name</th>
<th>date</th>
<th>date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>event</td>
<td>string</td>
<td>Event</td>
<td></td>
</tr>
<tr>
<td>superevent</td>
<td>string</td>
<td>superevent</td>
<td></td>
</tr>
<tr>
<td>subevent</td>
<td>string</td>
<td>subevent</td>
<td></td>
</tr>
</tbody>
</table>
50.1.1 date

    title  Date
    type   date
    format default

50.1.2 event

    title  Event
    type   string
    format default

Description of the event.

50.1.3 superevent

    title  superevent
    type   string
    format default

50.1.4 subevent

    title  subevent
    type   string
    format default
51.1 Schema

| belligerent | string | belligerent |
| infantry    | integer | infantry    |
| unit_type   | string  | unit_type   |
| low         | integer | low         |
| high        | integer | high        |
| avg         | number  | avg         |
| mode        | integer | mode        |
| page        | integer | page        |

51.1.1 belligerent

title  belligerent
type   string
format default

51.1.2 infantry

title  infantry
type integer
format default

51.1.3 unit_type

title unit_type
type string
format default

51.1.4 low

title low
type integer
format default

51.1.5 high

title high
type integer
format default

51.1.6 avg

title avg
type number
format default

51.1.7 mode

title mode
type integer
format default

51.1.8 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.
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; Hartville, 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]

52.1 Schema

**Primary Key** ['battle_id']

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>Battle Id.</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td>killed</td>
<td>integer</td>
<td>Killed</td>
</tr>
<tr>
<td>wounded</td>
<td>integer</td>
<td>wounded</td>
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<tr>
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<td>integer</td>
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<tr>
<td>comment</td>
<td>string</td>
<td>comment</td>
</tr>
<tr>
<td>from_footnote</td>
<td>boolean</td>
<td>from_footnote</td>
</tr>
</tbody>
</table>

52.1.1 battle_id

title Battle Id.

type string

constraints

  pattern [UC][1-9]+[A-Z]?

Unique battle identifier.
52.1.2 belligerent

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

52.1.3 battle_name

title Battle name
type string
format default

52.1.4 start_date

title start_date
type date
format default
Start date of the battle

52.1.5 end_date

title end_date
type date
format default
End date of the battle

52.1.6 state

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

title  Killed
type   integer
format default
constraints
        minimum 0

Number killed

52.1.8 wounded

title wounded
type   integer
format default
constraints
        minimum 0

Number wounded

52.1.9 missing

title missing
type   integer
format default
constraints
        minimum 0

Number missing

52.1.10 casualties

title casualties
type   integer
format default
constraints
        minimum 0

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

  title  aggregates_battles
  type   boolean
  format default

52.1.12 comment

  title  comment
  type   string
  format default

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

52.1.13 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 Service 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]

### 54.1 Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>victor</td>
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<td>Victor</td>
</tr>
<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>
<td>state</td>
<td>string</td>
<td>State</td>
</tr>
<tr>
<td>cwsac_id</td>
<td>string</td>
<td>CWSAC Id.</td>
</tr>
</tbody>
</table>

#### 54.1.1 victor

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

#### 54.1.2 victory_type

- **title**: Victory type
- **type**: string
- **format**: default
- **constraints**:
  - **enum**: ['victory', 'assault', 'defense']

#### 54.1.3 battle_name

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

title State

type string

format default

constraints

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

54.1.5 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]
CHAPTER 55

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]

### 55.1 Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>date</td>
<td>date</td>
<td></td>
</tr>
<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>

#### 55.1.1 date

**title** date  
**type** date  
**format** default
Casualties are given by week. This is the first day of that week period.

55.1.2 description

<table>
<thead>
<tr>
<th>title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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

55.1.3 confederate

<table>
<thead>
<tr>
<th>title</th>
<th>Confederate casualties</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>number</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
<tr>
<td>constraints</td>
<td></td>
</tr>
<tr>
<td>minimum</td>
<td>0</td>
</tr>
</tbody>
</table>

55.1.4 union

<table>
<thead>
<tr>
<th>title</th>
<th>Union casualties</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>integer</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
<tr>
<td>constraints</td>
<td></td>
</tr>
<tr>
<td>minimum</td>
<td>0</td>
</tr>
</tbody>
</table>

55.1.5 theater

<table>
<thead>
<tr>
<th>title</th>
<th>theater</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
<tr>
<td>constraints</td>
<td></td>
</tr>
<tr>
<td>enum</td>
<td>['Lower Seaboard', 'Trans-Mississippi', 'Eastern', 'Western']</td>
</tr>
</tbody>
</table>

Theater in which the combat casualties occurred.

55.1.6 cwsac_id

<table>
<thead>
<tr>
<th>title</th>
<th>Cwsac Id.</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

CWSAC battle associated with the casualties.
55.1.7 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]

### 56.1 Schema

**Primary Key**  ['battle_id']
56.1.1 battle_id

title Battle

type string

format default

constraints

   minLength 5
   maxLength 6

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

Battle identifier

56.1.2 battle_name

title Battle name

type string

format default

56.1.3 state

title state

type string

format default

constraints

   minLength 2
   maxLength 2

pattern [A-Z][A-Z]
56.1.4 county

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

Counties in which the battle took place.

56.1.5 start_date

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

56.1.6 end_date

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

56.1.7 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.

56.1.8 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.
56.1.9 casualties_text

title Casualties
type string
format default

56.1.10 cwsac_id

title CWSAC Id
type string
format default
constraints

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

### 57.1 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>
</tbody>
</table>

#### 57.1.1 battle_id

**title**  Battle

**type**  string

**format**  default
57.1.2 belligerent

title belligerent
type string
format default
constraints
enum [‘US’, ‘Confederate’, ‘Native American’]

57.1.3 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.

57.1.4 casualties_max

title Casualties (max)
type integer
format default
constraints
minimum 0

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

57.1.5 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.

### 57.1.6 killed_wounded_max

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

### 57.1.7 missing

- **title**: Missing or captured
- **type**: integer
- **format**: default
- **constraints**
  - **minimum**: 0
Size of the Union and Confederate Armies (Livermore, 1900)

name livermore_army_sizes
path livermore_army_sizes.csv
format csv

Size of the Union and Confederate Armies from 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]

58.1 Schema

<table>
<thead>
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<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>

58.1.1 date

title date
type date
format default
58.1.2 union_number

   title  No. on Union Rolls
   type   integer
   format default

58.1.3 confederate_number

   title  No. on Confederate Returns
   type   integer
   format default
Livermore (1900) battle data: battle list

<table>
<thead>
<tr>
<th>name</th>
<th>livermore_battles</th>
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</thead>
<tbody>
<tr>
<td>path</td>
<td>livermore_battles.csv</td>
</tr>
<tr>
<td>format</td>
<td>csv</td>
</tr>
</tbody>
</table>

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 [p. 64],

In the endeavor to establish this ratio, the writer has gathered the number engaged and the number killed and wounded in each battle in which 1000 or more were hit on either side . . .

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]

59.1 Schema

<table>
<thead>
<tr>
<th>title</th>
<th>type</th>
<th>format</th>
</tr>
</thead>
<tbody>
<tr>
<td>battle_id</td>
<td>integer</td>
<td>default</td>
</tr>
<tr>
<td>battle_name</td>
<td>string</td>
<td>default</td>
</tr>
<tr>
<td>page</td>
<td>integer</td>
<td>default</td>
</tr>
<tr>
<td>start_date</td>
<td>date</td>
<td>default</td>
</tr>
<tr>
<td>end_date</td>
<td>date</td>
<td>default</td>
</tr>
<tr>
<td>attacker</td>
<td>string</td>
<td>default</td>
</tr>
<tr>
<td>result</td>
<td>string</td>
<td>default</td>
</tr>
<tr>
<td>assault_fortified</td>
<td>string</td>
<td>default</td>
</tr>
<tr>
<td>assault_outcome</td>
<td>string</td>
<td>default</td>
</tr>
<tr>
<td>union_result</td>
<td>string</td>
<td>default</td>
</tr>
<tr>
<td>confed_result</td>
<td>string</td>
<td>default</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>default</td>
</tr>
<tr>
<td>theater</td>
<td>string</td>
<td>default</td>
</tr>
</tbody>
</table>

59.1.1 battle_id

title battle_id
type integer
format default

59.1.2 battle_name

title Battle name
type string
format default

59.1.3 page

title page
type integer
format default

Page in Livermore (1900) in which the battle description appears.
59.1.4 start_date

title Start date
type date
format default

59.1.5 end_date

title End date
type date
format default

59.1.6 attacker

title attacker
type string
format default
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]

59.1.7 result

title result
type string
format default
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]

59.1.8 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.

59.1.9 assault_outcome

<table>
<thead>
<tr>
<th>title</th>
<th>Assault outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

59.1.10 union_result

<table>
<thead>
<tr>
<th>title</th>
<th>Union result</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

59.1.11 confed_result

<table>
<thead>
<tr>
<th>title</th>
<th>Confederate result</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>

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.

59.1.12 state

<table>
<thead>
<tr>
<th>title</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>
Two-letter abbreviation of the state in which the battle was fought.

59.1.13 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]

### 60.1 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>PersonID</td>
<td>string</td>
<td>PersonID</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>middle_initial</td>
<td>string</td>
<td>Middle Initial</td>
</tr>
<tr>
<td>rank</td>
<td>string</td>
<td>Rank</td>
</tr>
<tr>
<td>navy</td>
<td>string</td>
<td>Was the commander in the navy?</td>
</tr>
</tbody>
</table>

#### 60.1.1 battle_id

title battle_id
type integer
60.1.2 belligerent

**title** belligerent
**type** string
**format** default
**constraints**

- **enum** ['US', 'Confederate']

60.1.3 PersonID

**title** PersonID
**type** string
**format** uuid

CWSS PersonID of the commander. See CWSS people.

60.1.4 last_name

**title** Last Name
**type** string
**format** default

60.1.5 first_name

**title** First Name
**type** string
**format** default

60.1.6 middle_name

**title** Middle Name
**type** string
**format** default

60.1.7 middle_initial

**title** Middle Initial
**type** string
**format** default
60.1.8 rank

title Rank
type string
format default

60.1.9 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]

61.1 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>

61.1.1 battle_id

title battle_id
type integer
format default

61.1.2 belligerent

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

61.1.3 str

    title str
    type integer
    format default
    constraints
        minimum 0

61.1.4 kia

    title Killed
    type integer
    format default
    constraints
        minimum 0

    None

61.1.5 wia

    title Wounded
    type integer
    format default
    constraints
        minimum 0

61.1.6 kw

    title Killed or Wounded
    type integer
    format default
    constraints
        minimum 0
61.1.7 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]
Chapter 62. Correspondence between Livermore (1900) battles and CWSAC battles
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]

### 63.1 Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cwsac_id</td>
<td>string</td>
<td>CWSAC Id.</td>
</tr>
<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>
<tr>
<td>us_fortifications</td>
<td>boolean</td>
<td>us_fortifications</td>
</tr>
</tbody>
</table>

#### 63.1.1 cwsac_id

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

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

63.1.3 us_ships

- **title**: Union ships
- **type**: integer
- **format**: default

Number of Union ships (including gunships, wooden warships, ironclads, and rams; excluding transports)

63.1.4 confederate_fortifications

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

Were any Confederate fortifications involved in the battle?

63.1.5 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:

### 64.1 Schema

<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Description</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>unit_code</td>
<td>string</td>
<td>unit_code</td>
</tr>
<tr>
<td>companies</td>
<td>number</td>
<td>companies</td>
</tr>
<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>
<tr>
<td>added</td>
<td>string</td>
<td>added</td>
</tr>
<tr>
<td>src</td>
<td>string</td>
<td>Source</td>
</tr>
<tr>
<td>comment</td>
<td>string</td>
<td>comment</td>
</tr>
</tbody>
</table>

#### 64.1.1 cwsac_id

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

64.1.2 belligerent

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

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

64.1.3 unit_code

title unit_code
type string
format default

64.1.4 companies

title companies
type number
format default

64.1.5 batteries

title batteries
type number
format default

64.1.6 detachment

title detachment
type number
format default
64.1.7 section

- title section
- type number
- format default

64.1.8 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.

64.1.9 src

- title Source
- type string
- format default

Original source for the CWSS data.

64.1.10 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, 1963.** 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>
<th>name</th>
<th>result</th>
<th>cwsac I</th>
<th>cwsasc II</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC005</td>
<td>Fort Wagner I</td>
<td>C</td>
<td>7-10 to 7-11</td>
<td>7-10 to 7-11</td>
</tr>
<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>
</tr>
<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](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](http://www.nps.gov/hps/abpp/battles/sc007.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](http://www.nps.gov/hps/abpp/battles/sc009.htm)

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

- July 16: Battle of Grimball’s landing. Union defeated in attempt to take Charleston by land.
- 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], [CWSIIAL], [CWSIIAR],
[CWSIIICO], [CWSIIIDC], [CWSIIFL], [CWSIIGA], [CWSIIIN], [CWSIIKS], [CWSIIKY], [CWSIIJA], [CWSIIIMD],
[CWSIIIN], [CWSIIIMO], [CWSIIIN], [CWSIIIND], [CWSIIIOH], [CWSIIIOK], [CWSIIIPA], [CWSIIISC], [CWSIIITN],
[CWSIIITX], [CWSIIIVA], [CWSIIWV]

65.1 Schema

<table>
<thead>
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<th>cwsac_id</th>
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</thead>
<tbody>
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<td>battle_name</td>
<td>string</td>
<td>battle_name</td>
</tr>
<tr>
<td>cwss</td>
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<td>cwss</td>
</tr>
<tr>
<td>cwsac</td>
<td>boolean</td>
<td>cwsac</td>
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<tr>
<td>cws2</td>
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<td>boolean</td>
<td>aad</td>
</tr>
<tr>
<td>notall</td>
<td>boolean</td>
<td>notall</td>
</tr>
</tbody>
</table>

65.1.1 cwsac_id

title cwsac_id
type string
format default

65.1.2 battle_name

title battle_name
type string
format default

65.1.3 cwss

title cwss
type boolean
format default
65.1.4 cwsac

  title  cwsac
  type   boolean
  format default

65.1.5 cws2

  title  cws2
  type   boolean
  format default

65.1.6 aad

  title  aad
  type   boolean
  format default

65.1.7 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:

### 66.1 Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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Table 1 – continued from previous page

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### 66.1.1 `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

### 66.1.2 battle_name

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

### 66.1.3 start_date

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

### 66.1.4 end_date

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

### 66.1.5 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.

### 66.1.6 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.
66.1.7 result

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

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

66.1.8 cwss_url

title CWSS URL
type string
format url

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

66.1.9 partof_cwss

title Part of CWSS
type boolean
format default

Was this battle included in the CWSS.

66.1.10 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.

66.1.11 forces_text

title Forces text
type string
format default

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

   title  Casualties text
   type   string
   format default

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

66.1.13 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.

66.1.14 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.

66.1.15 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.
66.1.16 cwsac_url

title cwsac_url
type string
format url


66.1.17 other_names

title other_names
type string
format default

66.1.18 partof_cwsac

title Part of CWSAC
type boolean
format default

Was this battle included in the 1993 CWSAC Report.

66.1.19 cws2_url

title cws2_url
type string
format default


66.1.20 study_area

title Study Area
type number
format default

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

66.1.21 core_area

title Core Area
type number
format default

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

   title  potnr_boundary
   type   number
   format default

66.1.23 partof_cws2

   title  partof_cws2
   type   boolean
   format default

66.1.24 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

66.1.25 interpretive_commander_loss

   title  interpretive_commander_loss
   type   integer
   format default

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

66.1.26 interpretive_casualties

   title  interpretive_casualties
   type   integer
   format default

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

66.1.27 interpretive_tactics_strategy

   title  interpretive_tactics_strategy
   type   integer
   format default
American Civil War Battle Data Documentation, Release 8.0.0

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

66.1.28 interpretive_public_mind

- **title** interpretive_public_mind
- **type** integer
- **format** default

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

66.1.29 interpretive_combat_arm

- **title** interpretive_combat_arm
- **type** integer
- **format** default

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

66.1.30 interpretive_military_firsts

- **title** interpretive_military_firsts
- **type** integer
- **format** default

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

66.1.31 interpretive_minority_troops

- **title** interpretive_minority_troops
- **type** integer
- **format** default

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

66.1.32 interpretive_economic

- **title** interpretive_economic
- **type** integer
- **format** default

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

- **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*

66.1.34 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*

66.1.35 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*

66.1.36 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*

66.1.37 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*
66.1.38 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*

66.1.39 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*

66.1.40 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*

66.1.41 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*

66.1.42 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*
66.1.43 **aad_url**

- **title**: aad_url
- **type**: string
- **format**: URL

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

66.1.44 **battle_type**

- **title**: Battle Type
- **type**: string
- **constraints**: enum


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

66.1.45 **partof_aad**

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

66.1.46 **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.

66.1.47 **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.
66.1.48 state

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

66.1.49 strength_mean

  title strength_mean
  type number
  format default

66.1.50 strength_var

  title strength_var
  type number
  format default

66.1.51 casualties_kwm_mean

  title casualties_kwm_mean
  type number
  format default

66.1.52 casualties_kwm_var

  title casualties_kwm_var
  type number
  format default

66.1.53 comment

  title comment
  type string
  format default
NPSA Battles to Dbpedia/Wikipedia Correspondence

**name** nps_battles_to_wiki

**path** nps_battles_to_wiki.csv

**format** csv

Sources: [jrnold]

### 67.1 Schema

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<tr>
<td>wikipedia_title</td>
<td>string</td>
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</tr>
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<td>relation</td>
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#### 67.1.1 cwsac_id

- **Title:** CWSAC Id
- **Type:** string
- **Format:** default
- **Constraints:**
  - **Pattern:** [A-Z][0-9]*

CWSAC ID

#### 67.1.2 dbpedia_uri

- **Title:** Dbpedia URI
type url

format default

URI of the dbpedia resource for the battle.

67.1.3 wikipedia_title

title Wikipedia Page

type string

format default

Title of the English Wikipedia page for the battle.

67.1.4 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:

68.1 Schema

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<th>Field</th>
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<th>Description</th>
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</table>

68.1.1 CampaignCode

title  CampaignCode
type   string
format  default
constraints
68.1.2 CampaignName

title  Campaign Name
type   string
format default

68.1.3 CampaignDates

title  CampaignDates
type   string
format default

Dates of the campaign (as a string)

68.1.4 CampaignStartDate

title  Start Date
type   string
format default

68.1.5 CampaignEndDate

title  End Date
type   date
format default

68.1.6 TheaterCode

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

68.1.7 WikipediaPage

- **title** Wikipedia Page
- **type** string
- **format** default

Title of the English Wikipedia page for the campaign

68.1.8 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:

69.1 Schema

<table>
<thead>
<tr>
<th>Field</th>
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69.1.1 cwsac_id

title  cwsac_id
type string
format default

69.1.2 belligerent

title belligerent
type string
format default

69.1.3 commander_number

title commander_number
type integer
format default

69.1.4 commander

title commander
type string
format default

69.1.5 added

title added
type boolean
format default

69.1.6 last_name

title last_name
type string
format default

69.1.7 suffix

title suffix
type string
format default
69.1.8 first_name

    title  first_name
    type   string
    format default

69.1.9 middle_name

    title  middle_name
    type   string
    format default

69.1.10 middle_initial

    title  middle_initial
    type   string
    format default

69.1.11 rank

    title  rank
    type   string
    format default

69.1.12 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:
70.1 Schema

<table>
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<th>Type</th>
<th>Description</th>
</tr>
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</tr>
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<td>number</td>
<td>Casualties (mean)</td>
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<td>casualties_k_mean</td>
<td>number</td>
<td>Killed (mean)</td>
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<td>casualties_w_mean</td>
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<td>Wounded (mean)</td>
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</tr>
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<td>casualties_kwm_var</td>
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<td>Casualties (variance)</td>
</tr>
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<td>Killed (variance)</td>
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70.1.1 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

70.1.2 belligerent

title belligerent

type string

format default

constraints

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

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

title  Casualties (mean)
type   number
format default
constraints
  minimum 0
Number of casualties (killed, wounded, or missing). Mean estimate.

70.1.4 casualties_k_mean

title  Killed (mean)
type   number
format default
constraints
  minimum 0
Number killed. Mean estimate.

70.1.5 casualties_w_mean

title  Wounded (mean)
type   number
format default
constraints
  minimum 0
Number wounded. Mean estimate.

70.1.6 casualties_m_mean

title  Missing or captured (mean)
type   number
format default
constraints
  minimum 0
Number missing or captured. Mean estimate.
70.1.7 casualties_kwm_var

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

Number of casualties (killed, wounded, or missing). Variance of estimate.

70.1.8 casualties_k_var

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

Number killed. Variance of estimate.

70.1.9 casualties_w_var

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

Number killed. Variance of estimate.

70.1.10 casualties_m_var

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

Number missing or captured. Variance of estimate.
70.1.11 casualties_kw_mean

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

70.1.12 casualties_kw_var

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

70.1.13 strength_mean

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

70.1.14 strength_var

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

70.1.15 casualties_km_mean

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

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

70.1.17 casualties_km_var

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

70.1.18 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:

71.1 Schema

<table>
<thead>
<tr>
<th>column</th>
<th>type</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>person_id</td>
<td>string</td>
<td>person_id</td>
</tr>
<tr>
<td>last_name</td>
<td>string</td>
<td>last_name</td>
</tr>
<tr>
<td>suffix</td>
<td>string</td>
<td>suffix</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>
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<tr>
<td>middle_initial</td>
<td>string</td>
<td>middle_initial</td>
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<tr>
<td>rank</td>
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<td>rank</td>
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<tr>
<td>bio</td>
<td>string</td>
<td>bio</td>
</tr>
<tr>
<td>bio_source</td>
<td>string</td>
<td>bio_source</td>
</tr>
<tr>
<td>narrative_link_1</td>
<td>string</td>
<td>narrative_link_1</td>
</tr>
<tr>
<td>narrative_link_2</td>
<td>string</td>
<td>narrative_link_2</td>
</tr>
<tr>
<td>added</td>
<td>boolean</td>
<td>added</td>
</tr>
<tr>
<td>dbpedia_uri</td>
<td>string</td>
<td>dbpedia_uri</td>
</tr>
</tbody>
</table>
71.1.1 person_id
  
  title person_id
  type string
  format default

71.1.2 last_name
  
  title last_name
  type string
  format default

71.1.3 suffix
  
  title suffix
  type string
  format default

71.1.4 first_name
  
  title first_name
  type string
  format default

71.1.5 middle_name
  
  title middle_name
  type string
  format default

71.1.6 middle_initial
  
  title middle_initial
  type string
  format default

71.1.7 rank
  
  title rank
  type string
  format default
### 71.1.8 bio

<table>
<thead>
<tr>
<th>Title</th>
<th>Type</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>bio</td>
<td>string</td>
<td>default</td>
</tr>
</tbody>
</table>

### 71.1.9 bio_source

<table>
<thead>
<tr>
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<th>Type</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>bio_source</td>
<td>string</td>
<td>default</td>
</tr>
</tbody>
</table>

### 71.1.10 narrative_link_1

<table>
<thead>
<tr>
<th>Title</th>
<th>Type</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>narrative_link_1</td>
<td>string</td>
<td>default</td>
</tr>
</tbody>
</table>

### 71.1.11 narrative_link_2

<table>
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<tr>
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<th>Type</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>narrative_link_2</td>
<td>string</td>
<td>default</td>
</tr>
</tbody>
</table>

### 71.1.12 added

<table>
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<th>Title</th>
<th>Type</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>added</td>
<td>boolean</td>
<td>default</td>
</tr>
</tbody>
</table>

### 71.1.13 dbpedia_uri

<table>
<thead>
<tr>
<th>Title</th>
<th>Type</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>dbpedia_uri</td>
<td>string</td>
<td>default</td>
</tr>
</tbody>
</table>

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:

72.1 Schema

<table>
<thead>
<tr>
<th>TheaterCode</th>
<th>string</th>
<th>Theater Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>TheaterName</td>
<td>string</td>
<td>Theater Name</td>
</tr>
<tr>
<td>WikipediaCategory</td>
<td>string</td>
<td>Wikipedia Category</td>
</tr>
<tr>
<td>WikipediaPage</td>
<td>string</td>
<td>Wikipedia Page</td>
</tr>
</tbody>
</table>

72.1.1 TheaterCode

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

CWSS Theater Code
72.1.2  TheaterName

title  Theater Name
type  string
format  default

72.1.3  WikipediaCategory

title  Wikipedia Category
type  string
format  default

Title of the English Wikipedia category for the theater.
Sources:

72.1.4  WikipediaPage

title  Wikipedia Page
type  string
format  default

Title of the English Wikipedia category for the theater.
Sources:
NPS ethnic categories of units.

73.1 Schema

<table>
<thead>
<tr>
<th>abbr</th>
<th>string</th>
<th>abbr</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>string</td>
<td>description</td>
</tr>
</tbody>
</table>

73.1.1 abbr

title  abbr

type  string

format  default

constraints

minLength  1

maxLength  1

73.1.2 description

title  description
type string
format default
Descriptions of the unit type categories in `nps_units.func`.
Sources:

### 74.1 Schema

<table>
<thead>
<tr>
<th>abbr</th>
<th>string</th>
<th>abbr</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>string</td>
<td>description</td>
</tr>
</tbody>
</table>

#### 74.1.1 abbr

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

#### 74.1.2 description

- **title**  description
type string
format default
CHAPTER 75

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:

75.1 Schema

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>abbr</td>
<td>string</td>
<td>abbr</td>
</tr>
<tr>
<td>description</td>
<td>string</td>
<td>description</td>
</tr>
</tbody>
</table>

75.1.1 abbr

title  abbr
type  string
format  default
constraints

  minLength  1
  maxLength  1

75.1.2 description

title  description
type string

format default
NPS combined data categories of types of data.

<table>
<thead>
<tr>
<th>name</th>
<th>nps_unit_categories_type</th>
</tr>
</thead>
<tbody>
<tr>
<td>path</td>
<td>nps_unit_categories_type.csv</td>
</tr>
<tr>
<td>format</td>
<td>csv</td>
</tr>
</tbody>
</table>

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

### 76.1 Schema

<table>
<thead>
<tr>
<th>abbr</th>
<th>string</th>
<th>abbr</th>
</tr>
</thead>
<tbody>
<tr>
<td>description</td>
<td>string</td>
<td>description</td>
</tr>
</tbody>
</table>

#### 76.1.1 abbr

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

#### 76.1.2 description

- **title** `description`
type  string
format  default
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:

77.1 Schema

<table>
<thead>
<tr>
<th>unit_code</th>
<th>string</th>
<th>unit_code</th>
</tr>
</thead>
<tbody>
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<td>unit_name</td>
<td>string</td>
<td>unit_name</td>
</tr>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>state</td>
</tr>
<tr>
<td>ordinal</td>
<td>string</td>
<td>ordinal</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>type</td>
</tr>
<tr>
<td>func</td>
<td>string</td>
<td>func</td>
</tr>
<tr>
<td>special</td>
<td>string</td>
<td>special</td>
</tr>
<tr>
<td>ethnic</td>
<td>string</td>
<td>ethnic</td>
</tr>
<tr>
<td>duplicate</td>
<td>number</td>
<td>duplicate</td>
</tr>
<tr>
<td>dbpedia_uri</td>
<td>string</td>
<td>dbpedia_uri</td>
</tr>
</tbody>
</table>

77.1.1 unit_code

title  unit_code
type  string
77.1.2 unit_name

title unit_name
type string
format default

Unit name.

77.1.3 belligerent

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

77.1.4 state

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

77.1.5 ordinal

title ordinal
type string
format default

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

77.1.6 type

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

77.1.7 func

    title  func
    type   string
    format default

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

77.1.8 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.

77.1.9 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.

77.1.10 duplicate

    title  duplicate
    type   number
    format default

Number to disambiguate units if there are multiple units with the same unit code.
77.1.11 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]
CHAPTER 79

Phisterer (1883) battle data: battle list

<table>
<thead>
<tr>
<th>name</th>
<th>phisterer_battles</th>
</tr>
</thead>
<tbody>
<tr>
<td>path</td>
<td>phisterer_battles.csv</td>
</tr>
<tr>
<td>format</td>
<td>csv</td>
</tr>
</tbody>
</table>

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.

79.1 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; McAfee’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]

### 79.1.1 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
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.

Was the engagement a campaign rather than a battle?

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]
80.1 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>Identifier number. These are the numbers given to the engagements in Phisterer (1883).</td>
</tr>
<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>

80.1.1 battle_id

title Battle
type integer
format default

80.1.2 start_date

title start_date
type string
format default

80.1.3 end_date

title end_date
type date
format default

80.1.4 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.

80.1.5 location

title Location
type string
format default
80.1.6 state

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

80.1.7 battle_name

title Battle name
type string
format default
Phisterer (1883) number of engagements by year

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]

81.1 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>

81.1.1 year

title Year
type integer
format default

81.1.2 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]

82.1 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 |

82.1.1 battle_id

title battle_id
type integer
format default
82.1.2 belligerent

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

82.1.3 casualties

title casualties
type number
format default
constraints
    minimum 0

82.1.4 killed

title killed
type number
format default
constraints
    minimum 0

82.1.5 wounded

title wounded
type number
format default
constraints
    minimum 0

82.1.6 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

Turning Points of the American Civil War in Dan Reiter (2009) *How Wars End*.

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]

### 84.1 Schema

<table>
<thead>
<tr>
<th>period</th>
<th>Type</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>
<td></td>
</tr>
<tr>
<td>description</td>
<td>string</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>favor</td>
<td>string</td>
<td>War Favor</td>
<td></td>
</tr>
<tr>
<td>war_aims_change</td>
<td>string</td>
<td>War Aims Change</td>
<td></td>
</tr>
<tr>
<td>comment</td>
<td>string</td>
<td>Comment</td>
<td></td>
</tr>
</tbody>
</table>

#### 84.1.1 period

<table>
<thead>
<tr>
<th>title</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>Time period of the turning point</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>
84.1.2 start_date

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

84.1.3 description

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

Brief description of the turning point

84.1.4 favor

- **title**: War Favor
- **type**: string
- **format**: default
- **constraints**
  - **enum**: ['Union', 'Confederacy']

Which side did the turning point favor: Union or Confederacy?

84.1.5 war_aims_change

- **title**: War Aims Change
- **type**: string
- **format**: default

Did either side change war aims in the following period?

84.1.6 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]

### 86.1 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>

#### 86.1.1 battle_id

**title**  Battle Id.
**type**  integer
**format**  default

Unique identifier in the Shenandoah data.
86.1.2 battle_name

title  Battle Name
type   string
format default

86.1.3 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.

86.1.4 start_date

title  Start Date
type   date
format default

86.1.5 end_date

title  End Date
type   date
format default

86.1.6 campaign

title  Campaign
type   string
format default

86.1.7 county

title  County
type   string
format default

County of the battle
86.1.8 url

    title  url
    type   string
    format default
NPS Shenandoah Report battle data: commanders

name  shenandoah_commanders
path  shenandoah_commanders.csv
format csv

Sources: [NPS1992]

87.1 Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>integer</th>
<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>

87.1.1 battle_id

title battle_id
type integer
format default

87.1.2 cwsac_id

title cwsac_id
type string
format default

87.1.3 belligerent

title belligerent
type string
format default

87.1.4 last_name

title Last name
type string
format default

87.1.5 first_name

title First name
type string
format default

87.1.6 middle_name

title Middle name
type string
format default

87.1.7 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]

88.1 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>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>
<td>string</td>
<td>casualties_text</td>
</tr>
<tr>
<td>casualties</td>
<td>integer</td>
<td>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>missing_captured</td>
<td>integer</td>
<td>Missing or Captured</td>
</tr>
</tbody>
</table>

88.1.1 battle_id

title  battle_id
type  integer
format  default
88.1.2 belligerent

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

88.1.3 description

  title  Description
  type   string
  format default

88.1.4 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.

88.1.5 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.

88.1.6 casualties_text

  title  casualties_text
  type   string
  format default

Text describing the casualties of the battle.
88.1.7 casualties

title Casualties
type integer
format default
constraints
    minimum 0

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

88.1.8 killed

title Killed
type integer
format default
constraints
    minimum 0

88.1.9 wounded

title Wounded
type integer
format default
constraints
    minimum 0

88.1.10 missing_captured

title Missing or Captured
type integer
format default
constraints
    minimum 0
CHAPTER 89

Union and Confederate ship list

<table>
<thead>
<tr>
<th>name</th>
<th>ships</th>
</tr>
</thead>
<tbody>
<tr>
<td>path</td>
<td>ships.csv</td>
</tr>
<tr>
<td>format</td>
<td>csv</td>
</tr>
</tbody>
</table>

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]

89.1 Schema

<table>
<thead>
<tr>
<th>ship_id</th>
<th>string</th>
<th>Ship identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string</td>
<td>Ship name</td>
</tr>
<tr>
<td>belligerent</td>
<td>string</td>
<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>

89.1.1 ship_id

<table>
<thead>
<tr>
<th>title</th>
<th>Ship identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string</td>
</tr>
<tr>
<td>format</td>
<td>default</td>
</tr>
</tbody>
</table>
89.1.2 name

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

Name of ship, not including the prefix or year of launch.

89.1.3 belligerent

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

89.1.4 url_dbpedia

- title: dbpedia Link
- type: string
- format: url

URI of the dbpedia.org resource.

89.1.5 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.

89.1.6 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]

90.1 Schema

<table>
<thead>
<tr>
<th>cwsac_id</th>
<th>string</th>
<th>CWSAC Id.</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
<td>string</td>
<td>Belligerent</td>
</tr>
<tr>
<td>ship</td>
<td>string</td>
<td>Ship name</td>
</tr>
</tbody>
</table>

90.1.1 cwsac_id

title  CWSAC Id.
type  string
format  default

CWSAC identifier of the battle. See CWSAC Report battle data: battles.

90.1.2 belligerent

title  Belligerent
type  string
90.1.3 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”

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

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](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]
91.1 Schema

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>battleNum</td>
<td>integer</td>
<td>Battle number</td>
</tr>
<tr>
<td>battleDetail</td>
<td>string</td>
<td>Battle details</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>unknownDay</td>
<td>boolean</td>
<td>Unknown day</td>
</tr>
<tr>
<td>lat</td>
<td>number</td>
<td>Latitude</td>
</tr>
<tr>
<td>lng</td>
<td>number</td>
<td>Longitude</td>
</tr>
<tr>
<td>shrtNm</td>
<td>string</td>
<td>Short name</td>
</tr>
<tr>
<td>desc</td>
<td>string</td>
<td>Description</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>Type</td>
</tr>
<tr>
<td>killed</td>
<td>integer</td>
<td>Killed</td>
</tr>
<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>

91.1.1 battleNum

**title** Battle number

**type** integer

**format** default

Battle identifier number

91.1.2 battleDetail

**title** Battle details

**type** string

**format** default

Description of the battle

91.1.3 beginDate

**title** Begin date

**type** date

**format** default

91.1.4 endDate

**title** End date

**type** date

**format** default
91.1.5 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.

91.1.6 lat

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

91.1.7 lng

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

91.1.8 shrtNm

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

91.1.9 desc

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

91.1.10 type

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

Type of engagement. E.g. skirmish, siege, engagement.
American Civil War Battle Data Documentation, Release 8.0.0

91.1.11 killed

  title  Killed
  type  integer
  format  default

91.1.12 usCasTot

  title  Total US casualties
  type  integer
  format  default

91.1.13 csCasTot

  title  Total Confederate casualties
  type  integer
  format  default
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 strenghts in battles when the source gives only the number and types of units (e.g. Clodfelter (2008) battle data: forces, CWSAC Report (1993) battle data: forces, CWSAC Report Updates battle data: force strengths).

Sources: [jrnold], [eicher2002civil], [Livermore1900]

92.1 Schema

<table>
<thead>
<tr>
<th>belligerent</th>
<th>string</th>
<th>belligerent</th>
</tr>
</thead>
<tbody>
<tr>
<td>unit_type</td>
<td>string</td>
<td>unit_type</td>
</tr>
<tr>
<td>mean</td>
<td>number</td>
<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>
</tr>
<tr>
<td>median</td>
<td>number</td>
<td>median</td>
</tr>
<tr>
<td>p75</td>
<td>number</td>
<td>p75</td>
</tr>
<tr>
<td>p975</td>
<td>number</td>
<td>p975</td>
</tr>
</tbody>
</table>

92.1.1 belligerent

title  belligerent
type string
format default

92.1.2 unit_type

title unit_type
type string
format default

92.1.3 mean

title mean
type number
format default

92.1.4 sd

title sd
type number
format default

92.1.5 p025

title p025
type number
format default

92.1.6 p25

title p25
type number
format default

92.1.7 median

title median
type number
format default
92.1.8 p75

- title p75
- type number
- format default

92.1.9 p975

- title p975
- type number
- format default
wikipedia_battles

**name**  wikipedia_battles  
**path**  wikipedia_battles.csv  
**format**  csv

Sources:

### 93.1 Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>battle_id</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>number</td>
<td>id</td>
</tr>
<tr>
<td>cwsac_id</td>
<td>string</td>
<td>cwsac_id</td>
</tr>
</tbody>
</table>

#### 93.1.1 battle_id

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

#### 93.1.2 id

- **title**  id  
- **type**  number  
- **format**  default
93.1.3 cwsac_id

- **title**: cwsac_id
- **type**: string
- **format**: default
CHAPTER 94

wikipedia_forces

name wikipedia_forces
path wikipedia_forces.csv
format csv

Sources:

94.1 Schema

<table>
<thead>
<tr>
<th>battle_id</th>
<th>string</th>
<th>battle_id</th>
</tr>
</thead>
<tbody>
<tr>
<td>belligerent</td>
<td>string</td>
<td>belligerent</td>
</tr>
<tr>
<td>strength_min</td>
<td>number</td>
<td>strength_min</td>
</tr>
<tr>
<td>strength_max</td>
<td>number</td>
<td>strength_max</td>
</tr>
<tr>
<td>casualties_min</td>
<td>number</td>
<td>casualties_min</td>
</tr>
<tr>
<td>casualties_max</td>
<td>number</td>
<td>casualties_max</td>
</tr>
<tr>
<td>killed_min</td>
<td>number</td>
<td>killed_min</td>
</tr>
<tr>
<td>killed_max</td>
<td>number</td>
<td>killed_max</td>
</tr>
<tr>
<td>wounded_min</td>
<td>number</td>
<td>wounded_min</td>
</tr>
<tr>
<td>wounded_max</td>
<td>number</td>
<td>wounded_max</td>
</tr>
<tr>
<td>missing_min</td>
<td>number</td>
<td>missing_min</td>
</tr>
<tr>
<td>missing_max</td>
<td>number</td>
<td>missing_max</td>
</tr>
<tr>
<td>captured_min</td>
<td>number</td>
<td>captured_min</td>
</tr>
<tr>
<td>captured_max</td>
<td>number</td>
<td>captured_max</td>
</tr>
<tr>
<td>killed_wounded_min</td>
<td>number</td>
<td>killed_wounded_min</td>
</tr>
<tr>
<td>killed_wounded_max</td>
<td>number</td>
<td>killed_wounded_max</td>
</tr>
<tr>
<td>wounded_missing_min</td>
<td>number</td>
<td>wounded_missing_min</td>
</tr>
<tr>
<td>wounded_missing_max</td>
<td>number</td>
<td>wounded_missing_max</td>
</tr>
<tr>
<td>captured_missing_min</td>
<td>number</td>
<td>captured_missing_min</td>
</tr>
<tr>
<td>captured_missing_max</td>
<td>number</td>
<td>captured_missing_max</td>
</tr>
</tbody>
</table>
94.1.1 battle_id
  title battle_id
  type string
  format default

94.1.2 belligerent
  title belligerent
  type string
  format default

94.1.3 strength_min
  title strength_min
  type number
  format default

94.1.4 strength_max
  title strength_max
  type number
  format default

94.1.5 casualties_min
  title casualties_min
  type number
  format default

94.1.6 casualties_max
  title casualties_max
  type number
  format default

94.1.7 killed_min
  title killed_min
  type number
  format default
94.1.8 killed_max

  title killed_max
  type number
  format default

94.1.9 wounded_min

  title wounded_min
  type number
  format default

94.1.10 wounded_max

  title wounded_max
  type number
  format default

94.1.11 missing_min

  title missing_min
  type number
  format default

94.1.12 missing_max

  title missing_max
  type number
  format default

94.1.13 captured_min

  title captured_min
  type number
  format default

94.1.14 captured_max

  title captured_max
  type number
  format default
94.1.15 **killed_wounded_min**

- **title** killed_wounded_min
- **type** number
- **format** default

94.1.16 **killed_wounded_max**

- **title** killed_wounded_max
- **type** number
- **format** default

94.1.17 **wounded_missing_min**

- **title** wounded_missing_min
- **type** number
- **format** default

94.1.18 **wounded_missing_max**

- **title** wounded_missing_max
- **type** number
- **format** default

94.1.19 **captured_missing_min**

- **title** captured_missing_min
- **type** number
- **format** default

94.1.20 **captured_missing_max**

- **title** captured_missing_max
- **type** number
- **format** default
CHAPTER 95

Indices and tables

- genindex
- modindex
- search


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336 Bibliography
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