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USGS River Flow Monitoring

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sensor:

REST sensors pulling data from USGS

- platform: rest

name: Gallatin River Raw

resource:

"https://waterservices.usgs.gov/nwis/iv/?format=json&sites=06043500¶meterCd=00060"

value_template: "OK"

json_attributes:

- value

scan_interval: 900

- platform: rest

name: Madison River Ennis Raw

resource:

"https://waterservices.usgs.gov/nwis/iv/?format=json&sites=06041000¶meterCd=00060"

value_template: "OK"

json_attributes:

- value

scan_interval: 900

- platform: rest

name: Madison River Cameron Raw

resource:

"https://waterservices.usgs.gov/nwis/iv/?format=json&sites=06040000¶meterCd=00060"

value_template: "OK"

json_attributes:

- value

scan_interval: 900

- platform: rest

name: Yellowstone River Raw

resource:

"https://waterservices.usgs.gov/nwis/iv/?format=json&sites=06192500¶meterCd=00060"

value_template: "OK"

json_attributes:

- value

scan_interval: 900

- platform: rest

name: East Gallatin River Raw

resource:

"https://waterservices.usgs.gov/nwis/iv/?format=json&sites=06048650¶meterCd=00060"

value_template: "OK"

json_attributes:

- value

scan_interval: 900

template:

- sensor:

- name: Gallatin River CFS

- unique_id: gallatin_river_cfs

- unit_of_measurement: "cfs"

- state: >

- {% set v = state_attr('sensor.gallatin_river_raw', 'value') %}

- {% if v and 'timeSeries' in v %}

- {{ v['timeSeries'][0]['values'][0]['value'][0]['value'] | float }}

- {% else %}

- unknown

- {% endif %}

- name: Gallatin River Mean CFS

- unique_id: gallatin_river_mean_cfs

- unit_of_measurement: "cfs"

- state: 1350

- name: Gallatin River Flow Status

- unique_id: gallatin_river_flow_status

- state: >

- {% set flow = states('sensor.gallatin_river_cfs') | float(0) %}

- {% set mean = states('sensor.gallatin_river_mean_cfs') | float(0) %}

- {% set pct = ((flow - mean) / mean * 100) if mean > 0 else 0 %}

- {% if pct > 15 %}Above Normal{% elif pct < -15 %}Below Normal{% else %}Near

- Normal{% endif %}

- name: Madison River Ennis CFS

- unique_id: madison_river_ennis_cfs

- unit_of_measurement: "cfs"

- state: >

- {% set v = state_attr('sensor.madison_river_ennis_raw', 'value') %}

- {% if v and 'timeSeries' in v %}

- {{ v['timeSeries'][0]['values'][0]['value'][0]['value'] | float }}

- {% else %}

- unknown

- {% endif %}

- name: Madison River Ennis Mean CFS
unique_id: madison_river_ennis_mean_cfs
unit_of_measurement: "cfs"
state: 1200

- name: Madison River Ennis Flow Status
unique_id: madison_river_ennis_flow_status
state: >
{% set flow = states('sensor.madison_river_ennis_cfs') | float(0) %}
{% set mean = states('sensor.madison_river_ennis_mean_cfs') | float(0) %}
{% set pct = ((flow - mean) / mean * 100) if mean > 0 else 0 %}
{% if pct > 15 %}Above Normal{% elif pct < -15 %}Below Normal{% else %}Near
Normal{% endif %}

- name: Madison River Cameron CFS
unique_id: madison_river_cameron_cfs
unit_of_measurement: "cfs"
state: >
{% set v = state_attr('sensor.madison_river_cameron_raw', 'value') %}
{% if v and 'timeSeries' in v %}
{{ v['timeSeries'][0]['values'][0]['value'][0]['value'] | float }}
{% else %}
unknown
{% endif %}

- name: Madison River Cameron Mean CFS
unique_id: madison_river_cameron_mean_cfs
unit_of_measurement: "cfs"
state: 1100

- name: Madison River Cameron Flow Status
unique_id: madison_river_cameron_flow_status
state: >
{% set flow = states('sensor.madison_river_cameron_cfs') | float(0) %}
{% set mean = states('sensor.madison_river_cameron_mean_cfs') | float(0) %}
{% set pct = ((flow - mean) / mean * 100) if mean > 0 else 0 %}
{% if pct > 15 %}Above Normal{% elif pct < -15 %}Below Normal{% else %}Near
Normal{% endif %}

- name: Yellowstone River CFS
unique_id: yellowstone_river_cfs
unit_of_measurement: "cfs"
state: >

```
{% set v = state_attr('sensor.yellowstone_river_raw', 'value') %}
{% if v and 'timeSeries' in v %}
  {{ v['timeSeries'][0]['values'][0]['value'][0]['value'] | float }}
{% else %}
  unknown
{% endif %}
```

```
- name: Yellowstone River Mean CFS
  unique_id: yellowstone_river_mean_cfs
  unit_of_measurement: "cfs"
  state: 8500
```

```
- name: Yellowstone River Flow Status
  unique_id: yellowstone_river_flow_status
  state: >
    {% set flow = states('sensor.yellowstone_river_cfs') | float(0) %}
    {% set mean = states('sensor.yellowstone_river_mean_cfs') | float(0) %}
    {% set pct = ((flow - mean) / mean * 100) if mean > 0 else 0 %}
    {% if pct > 15 %}Above Normal{% elif pct < -15 %}Below Normal{% else %}Near
Normal{% endif %}
```

```
- name: East Gallatin River CFS
  unique_id: east_gallatin_river_cfs
  unit_of_measurement: "cfs"
  state: >
    {% set v = state_attr('sensor.east_gallatin_river_raw', 'value') %}
    {% if v and 'timeSeries' in v %}
      {{ v['timeSeries'][0]['values'][0]['value'][0]['value'] | float }}
    {% else %}
      unknown
    {% endif %}
```

```
- name: East Gallatin River Mean CFS
  unique_id: east_gallatin_river_mean_cfs
  unit_of_measurement: "cfs"
  state: 220
```

```
- name: East Gallatin River Flow Status
  unique_id: east_gallatin_river_flow_status
  state: >
    {% set flow = states('sensor.east_gallatin_river_cfs') | float(0) %}
    {% set mean = states('sensor.east_gallatin_river_mean_cfs') | float(0) %}
    {% set pct = ((flow - mean) / mean * 100) if mean > 0 else 0 %}
```

```
{% if pct > 15 %}Above Normal{% elif pct < -15 %}Below Normal{% else %}Near  
Normal{% endif %}
```