

# API User Guide

## CDC Environmental Health Tracking Network

### API User Guide

#### Overview

The Data Application Program Interface (API) is an additional way to query data stored by the Environmental Public Health Tracking Network. The API provides a standard URL interface with a JSON formatted response. An empty data set is return for either no data or an invalid entry.

An optional API token for the CDC Environmental Public Health Tracking Network API can be obtained by contacting [nephtrackingsupport@cdc.gov](mailto:nephtrackingsupport@cdc.gov). An API token allows greater access to the Environmental Public Health Tracking Network data.

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(1) deprecated (may not be in future versions)

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## contentareas

**Definition:** Return Content Areas

**Usage:**

[ephtracking.cdc.gov/apigateway/api/{version}/contentareas/{returnType}\[?apiToken\]](http://ephtracking.cdc.gov/apigateway/api/{version}/contentareas/{returnType}[?apiToken])

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **returnType**
  - Only "json" is accepted for this version
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "ContentAreald": {
        "type": "string"
      },
      "ContentAreaName": {
        "type": "string"
      },
      "ContentAreaShortName": {
        "type": "string"
      }
    }
  }
}
```

**Example:**

["ephtracking.cdc.gov/apigateway/api/v1/contentareas/json"](http://ephtracking.cdc.gov/apigateway/api/v1/contentareas/json) provides a list of content areas. The return values (partial output) are:

```
[{"id": "11", "name": "Air Quality", "shortName": "AQ"}, {"id": "3", "name": "Asthma", "shortName": "AS"}, {"id": "9", "name": "Cancer", "shortName": "CR"}, {"id": "2", "name": "Carbon Monoxide Poisoning", "shortName": "CO"}, {"id": "10", "name": "Childhood Cancers", "shortName": "CHCR"}, {"id": "6", "name": "Childhood Lead Poisoning", "shortName": "CLP"}, {"id": "15", "name": "Climate ... }]
```

## indicators

**Definition:** Return Indicators for a Content Area

**Usage:**

`ephtracking.cdc.gov/apigateway/api/{version}/indicators/{contentarea}[?apiToken]`

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **contentAreald**
  - Valid Content Area Id - Invalid entry will return an empty data set
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "IndicatorId": {
        "type": "string"
      },
      "IndicatorName": {
        "type": "string"
      },
      "IndicatorShortName": {
        "type": "string"
      },
      "externalURL": {
        "type": "null"
      },
      "externalURLText": {
        "type": "null"
      }
    }
  }
}
```

**Example:**

`"ephtracking.cdc.gov/apigateway/api/v1/indicators/9"` provides a list of indicators for contentAreald = 9 (Cancer). The return values (partial output) are:

```
[{"id": "21", "name": "Incidence of Acute Myeloid Leukemia", "shortName": "Myeloid Leuk", "externalURL": null, "externalURLText": null}, {"id": "18", "name": "Incidence of Bladder Cancer", "shortName": "Bladder Cancer", "externalURL": null, "externalURLText": null}, {"id": "47", "name": "Incidence of Brain and Other Nervous System Cancer", "shortName": "Brain & Other", "externalURL": null, "externalURLText": null}, ...]
```

## measures

**Definition:** Return Measures for an Indicator

**Usage:**

`ephtracking.cdc.gov/apigateway/api/{version}/measures/{indicatorID}?apiToken]`

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **indicatorId**
  - Valid Indicator Id - Invalid entry will return an empty data set
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "MeasureId": {
        "type": "string"
      },
      "MeasureName": {
        "type": "string"
      },
      "MeasureShortName": {
        "type": "string"
      },
      "externalURLText": {
        "type": "null"
      },
      "externalURL": {
        "type": "null"
      }
    }
  }
}
```

**Example:**

`"ephtracking.cdc.gov/apigateway/api/v1/measures/25"` provides a list of content areas for `indicatorId = 25` (Incidence of Thyroid Cancers). The return values (partial output) are:

```
[{"id": "66", "name": "Age-adjusted incidence rate of Thyroid Cancer per 100,000 population - M66", "shortName": "Age-adjusted rate per 100,000 population - M66", "externalURL": null, "externalURLText": null}, {"id": "226", "name": "Age-adjusted incidence rate of Thyroid Cancer per 100,000 population over a five year period - M226", "shortName": "Age-adjusted rate per 100,000 population over a 5 year period - M226", "externalURL": null, "externalURLText": null}, ...]
```

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## measurestratification

**Definition:** Listing of stratifications for a measure and geography type

**Usage:**

ephtracking.cdc.gov/apigateway/api/{version}/measurestratification/{measureId}/{geographicTypeId}/{isSmoothed}[?apiToken]

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid measureID
- **geographicTypeId**
  - Requires a valid geographicTypeID
- **isSmoothed**
  - Requires either a one or zero (true or false) for having data that is geographically smoothed:
  - NOTE: the majority of measures *do not* have smoothing value
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "displayName": {
        "type": "string"
      },
      "isDisplayed": {
        "type": "boolean"
      },
      "isRequired": {
        "type": "boolean"
      },
      "isGrouped": {
        "type": "boolean"
      },
      "IsStratificationSelectable": {
        "type": "boolean"
      },
      "stratificationItem": {
        "type": "array",
        "items": {
          "type": "object",
          "properties": {
            "name": {
              "type": "string"
            },
            "longName": {
              "type": "string"
            },
            "isDefault": {
              "type": "boolean"
            },
            "useLongName": {
              "type": "boolean"
            },
            "localId": {
              "type": "integer"
            }
          }
        }
      },
      "columnName": {
        "type": "string"
      },
      "stratificationTypeId": {
        "type": "integer"
      }
    }
  }
}
```

**Example:**

"[ephrtracking.cdc.gov/apigateway/api/v1/measurestratification/66/1/0](https://ephrtracking.cdc.gov/apigateway/api/v1/measurestratification/66/1/0)" provides a list of stratifications for measureId = 66 (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population) and isSmotthed = 0 (false). The return values (partial output) are:

```
[{"displayName": "Gender", "isDisplayed": true, "isRequired": false, "isGrouped": false, "isStratificationSelectable": false, "stratificationItem": [{"name": "Male", "longName": "Male", "isDefault": false, "useLongName": false, "localId": 1}, {"name": "Female", "longName": "Female", "isDefault": false, "useLongName": false, "localId": 2}], "columnName": "GenderId", "stratificationTypeId": 4}, {"displayName": "Race Ethnicity", "isDisplayed": true, "isRequired": false, "isGrouped": false, "isStratificationSelectable": false, "stratificationItem": [{"name": "Asian/Pacific Islander (includes Hispanic)", "longName": "Asian/Pacific Islander (includes Hispanic)", "isDefault": false, "useLongName": false, "localId": 1}, {"name": "Black (includes Hispanic)", "longName": "Black (includes Hispanic)", "isDefault": false, ...}]
```

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## geographiclevels

**Definition:** Listing of geographic levels for a measure

**Usage:**

[ephtracking.cdc.gov/apigateway/api/{version}/geographiclevels/{measureID}\[?apiToken\]](http://ephtracking.cdc.gov/apigateway/api/{version}/geographiclevels/{measureID}[?apiToken])

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid measureID
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "id": {
        "type": "integer"
      },
      "GeographicTypeId": {
        "type": "integer"
      },
      "GeographicType": {
        "type": "string"
      },
      "SelectOptionsTypeId": {
        "type": "integer"
      },
      "SelectOptionsType": {
        "type": "string"
      },
      "SmoothingLevelId": {
        "type": "integer"
      },
      "Smoothing Level": {
        "type": "string"
      }
    }
  }
}
```

**Example:**

["ephtracking.cdc.gov/apigateway/api/v1/geographiclevels/66"](http://ephtracking.cdc.gov/apigateway/api/v1/geographiclevels/66) provides a list of geographic levels for `measureId = 66` (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population). The return values are:

```
[{"id":506,"geographicTypeId":1,"geographicType":"State",
"selectOptionsTypeId":1,
"selectOptionsType":"No Restrictions",
"smoothingLevelId":1,
"smoothingLevel":"No Smoothing Available"}]
```

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## geography

**Definition:** Return Geographies for a Measure ID, Geographic Type and Geographic Rollup

**Usage:**

ephtracking.cdc.gov/apigateway/api/{version}/geography/{measureId}/{geographicTypeId}/{geographicRollup}[?apiToken]

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid measureID
- **geographicTypeId**
  - Requires a valid geographicTypeId
- **geographicRollup**
  - Requires either a one or zero (true or false) to include geographicRollup
- **apiToken (optional)**
  - Called via "apitoken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "parentGeographicId": {
        "type": "integer"
      },
      "parentName": {
        "type": "string"
      },
      "parentAbbreviation": {
        "type": "string"
      },
      "childGeographicId": {
        "type": "integer"
      },
      "childName": {
        "type": "null"
      },
      "childAbbreviation": {
        "type": "null"
      },
      "id": {
        "type": "integer"
      }
    }
  }
}
```

**Example:**

"ephtracking.cdc.gov/apigateway/api/v1/geography/66/1/0" provides a list of geographies for measureId = 66 (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population), geographicTypeId = 1 (state) and geographicRollup = 0 (false). The return values (partial output) are:

```
[{"parentGeographicId":1,"parentName":"Alabama","parentAbbreviation":"AL","childGeographicId":0,"childName":null,"childAbbreviation":null,"id":1}, {"parentGeographicId":2,"parentName":"Alaska","parentAbbreviation":"AK","childGeographicId":0,"childName":null,"childAbbreviation":null,"id":2}, {"parentGeographicId":4,"parentName":"Arizona","parentAbbreviation":"AZ","childGeographicId":0,"childName":null,"childAbbreviation":null,"id":4}, {"parentGeographicId":5,"parentName":"Arkansas","parentAbbreviation":"AR","childGeographicId":0,"childName":null,"childAbbreviation":null,"id":5} ...]
```



## temporal

# Return Temporals for a Measure and Filtered Geographies

**Definition:** Listing of temporals for a measure and filtered geographies

**Usage:**

```
ephtracking.cdc.gov/apigateway/api/{version}/temporal/{measureID}/{geographicTypeid}/{geographicTypeidFilter}/  
{geographicItemsFilter}[?apiToken]
```

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureid**
  - Requires a valid measureID
- **geographicTypeid**
  - Requires a valid geographicTypeid
- **geographicTypeidFilter**
  - Filter to retrieve only filtered geographicTypeid's
- **geographicItemsFilter**
  - Filter to retrieve only certain geographicItems
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{  
  
  "type": "array",  
  "items": {  
    "type": "object",  
    "properties": {  
      "id": {  
        "type": "integer"  
      },  
      "parentTemporalId": {  
        "type": "integer"  
      },  
      "parentMinimumTemporalId": {  
        "type": "null"  
      },  
      "parentTemporalTypeid": {  
        "type": "integer"  
      },  
      "parentTemporalType": {  
        "type": "string"  
      },  
      "childTemporalId": {  
        "type": "null"  
      },  
      "childTemporalTypeid": {  
        "type": "null"  
      },  
      "childTemporalType": {  
        "type": "null"  
      },  
      "parentTemporalDisplay": {  
        "type": "string"  
      }  
    }  
  }  
}
```

**Example:**

"[ephtracking.cdc.gov/apigateway/api/v1/temporal/66/1/1/13,26,48](https://ephtracking.cdc.gov/apigateway/api/v1/temporal/66/1/1/13,26,48)" provides a list of temporals for `measureId = 66` (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population), `geographicTypeId = 1` (state), `geographicTypeIdFilter = 1` (state only), `geographicItemsFilter = 13,26,48` (StateFIPS for Georgia, Michigan and Texas). The return values (partial output) are:

```
[{"id":2001,"parentTemporalId":2001,"parentMinimumTemporalId":null,"parentTemporalTypeId":1,"parentTemporalType":"Year","childTemporalId":null,"childTemporalTypeId":null,"childTemporalType":null,"parentTemporalDisplay":"2001"}, {"id":2002,"parentTemporalId":2002,"parentMinimumTemporalId":null,"parentTemporalTypeId":1,"parentTemporalType":"Year","childTemporalId":null,"childTemporalTypeId":null,"childTemporalType":null,"parentTemporalDisplay":"2002"}, {"id":2003,"parentTemporalId":2003, ... ]
```

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## stratificationlevel

**Definition:** Listing levels of stratification for a measure and geography type

**Usage:**

[ephtracking.cdc.gov/apigateway/api/{version}/stratificationlevel/{measureId}/{geographicTypeId}/{isSmoothed}\[?apiToken\]](https://ephtracking.cdc.gov/apigateway/api/{version}/stratificationlevel/{measureId}/{geographicTypeId}/{isSmoothed}[?apiToken])

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid measureID
- **geographicTypeId**
  - Requires a valid geographicTypeId
- **isSmoothed**
  - Requires either a one or zero (true or false) for having data that is geographically smoothed:
  - NOTE: the majority of measures *do not* have smoothing value
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
```



## getCoreHolder

**Definition:** Listing of Values for a Measure

**Usage:**

`ephtracking.cdc.gov/apigateway/api/{version}/getCoreHolder/{measureId}/{stratificationLevelId}/  
{geographicTypeIdFilter}/{geographicItemsFilter}/{temporal}/{isSmoothed}/0?[{apiToken}]`

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid measureID
- **stratificationLevelId**
  - Requires a valid stratificationLevelId
- **geographicTypeIdFilter**
  - Requires a valid geographicTypeId or ALL
- **geographicItemsFilter**
  - Filter to retrieve only certain geographicItems
- **temporal**
  - Requires a valid temporal entry (e.g. years) separated by comma
- **isSmoothed**
  - Requires either a one or zero (true or false) for having data that is geographically smoothed:  
• NOTE: the majority of measures *do not* have smoothing value
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output: Core Holder Schema**

**Example:**

"[ephtracking.cdc.gov/apigateway/api/v1/getCoreHolder/66/1/ALL/ALL/2011,2012/0/0](https://ephtracking.cdc.gov/apigateway/api/v1/getCoreHolder/66/1/ALL/ALL/2011,2012/0/0)" provides the basic core holder for measureId = 66 (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population), stratificationLevelId = 1 (state), geographicTypeIdFilter = ALL (All geographic types), geographicItemsFilter = ALL (All geographic items), temporal = 2011,2012, smoothed = 0 (false), getFullCoreHolder = 0 (False - get only basic core holder values). The return values (partial output) are:

```
{ "legendResult": [], "tableResult": [ { "id": "166895", "dataValue": "9.3", "displayValue": "9.3", "year": "2011", "groupById": "1", "geographicTypeId": 1, "calculationType": "Age Adjusted Rate", "noDataId": -1, "noDataBreakGroup": 0, "stabilityFlag": "1", "suppressionFlag": "0", "title": "Alabama", "rollover": [ "Age Adjusted Rate: 9.3" ], "parentGeoAbbreviation": null, "geoAbbreviation": "AL", "geoId": "01", "geo": "Alabama", "parentGeoId": null, "parentGeo": null }, { "id": "169733", "dataValue": "8.6", "displayValue": "8.6", "year": "2012", "groupById": "1", "geographicTypeId": 1, "calculationType": "Age Adjusted Rate", "noDataId": -1, "noDataBreakGroup": 0, "stabilityFlag": "1", "suppressionFlag": "0", "title": "Alabama", "rollover": [ "Age Adjusted Rate: 8.6" ], "parentGeoAbbreviation": null, "geoAbbreviation": "AL", "geoId": "01", "geo": "Alabama", "parentGeoId": null, "parentGeo": null }, { "id": "172076", "dataValue": "11.7", "displayValue": "11.7", "year": "2011", "groupById": "1", "geographicTypeId": 1, "calculationType": "Age Adjusted Rate", "noDataId": -1, "noDataBreakGroup": 0, ... ] }
```

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## getMeasures

**Definition:** Listing of Measures – Deprecated (may not be in future versions)

**Usage:**

`ephracking.cdc.gov/apigateway/api/{version}/getMeasures[?apiToken]`

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "contentAreaName": {
        "type": "string"
      },
      "indicatorName": {
        "type": "string"
      },
      "measureId": {
        "type": "integer"
      },
      "measureName": {
        "type": "string"
      }
    }
  }
}
```

**Example:**

`"ephracking.cdc.gov/apigateway/api/v1/getMeasures?apiToken=J60D5D74-47B0-42Q2-A8C5-CBFA9E2E0BC7"` (not a valid token) [provides a listing of measures and returns \(partial output\)](#):

```
[{"contentAreaName": "Air Quality", "indicatorName": "Annual PM2.5 Level (Monitor only)", "measureId": 87, "measureName": "Annual average ambient concentrations of PM2.5 in micrograms per cubic meter (based on seasonal averages and daily measurement)"}, {"contentAreaName": "Air Quality", "indicatorName": "Ozone - Days Above Regulatory Standard (Monitor only)", "measureId": 83, "measureName": "Number of days with maximum 8-hour average ozone concentration over the National Ambient Air Quality Standard"}, ...]
```

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### Return Geographic Levels for a Measure

**Definition:** Listing of the geographic levels for a measure – Deprecated (may not be in future versions)

**Usage:**

`ephtracking.cdc.gov/apigateway/api/{version}/getGeographicLevels/{measureId}[?apiToken]`

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid measureID
- **apiToken**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "measureId": {
        "type": "integer"
      },
      "geographicLevelId": { Note: 1 - State,2 - County, 6 - National, 7 - Census Tract
        "type": "integer"
      },
      "SmoothingAvailability": {
        "type": "string"
      }
    }
  }
}
```

**Example:**

`"ephtracking.cdc.gov/apigateway/api/v1/getGeographicLevels/66"` provides a listing of geographic levels for `measureId = 66` (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population) and returns:

```
[ { "measureId": 66, "geographicLevelId": 1, "smoothingAvailability": "Not Smoothed" } ]
```

## getStates

### Return State FIPS Code for a Measure

**Definition:** Listing of the state FIPS code for a measure – Deprecated (may not be in future versions)

**Usage:**

```
ephtracking.cdc.gov/apigateway/api/{version}/getStates/{measureId}[?apiToken]
```

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid measureID
- **apiToken**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{  
  "title": "State FIPS",  
  "type": "array",  
  "items": {  
    "type": "string"  
  }  
}
```

**Example:**

["ephtracking.cdc.gov/apigateway/api/v1/getStates/66"](https://ephtracking.cdc.gov/apigateway/api/v1/getStates/66) provides a listing of state FIPS for measureId = 66 (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population) and returns:

```
[ "01", "02", "04", "05", "06", "08", "09", "10", "11", "12", "13", "15", "16", "  
17", "18", "19", "20", "21", "22", "23", "24", "25", "  
26", "28", "29", "30", "31", "32", "33", "34", "35", "36", "37", "38", "39", "  
40", "41", "42", "44", "45", "46", "47", "48", "49", "  
50", "51", "53", "54", "55", "56" ]
```

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## getYears

### Return Years with Data for a Measure

**Definition:** Listing of years with data for a measure – Deprecated (may not be in future versions)

**Usage:**

`ephtracking.cdc.gov/apigateway/api/{version}/getYears/{measureId}[?apiToken]`

**Parameters:**

- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid measureID
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

**Output:**

```
{
  "title": "Years with Data",
  "type": "array",
  "items": {
    "type": "string"
  }
}
```

**Example:**

"[ephtracking.cdc.gov/apigateway/api/v1/getYears/66](https://ephtracking.cdc.gov/apigateway/api/v1/getYears/66)" provides a listing of years with data for `measureId = 66` (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population) and returns:

```
[ "2001" , "2002" , "2003" , "2004" , "2005" , "2006" , "2007" , "2008" , "2009" , "2010" , "2011" , "2012" ]
```

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## getData

### Return Data Values for a Measure

**Definition:** Listing of data values for a measure

**Note:** deprecated (may not be in future versions) - replaced by `getCoreHolder`

**Usage:**

`ephtracking.cdc.gov/apigateway/api/{version}/getData/{measureId}/{state}/{includeCounty}/{temporal}/{isSmoothed}/{returnType}[?apiToken]`

**Parameters:**



- **version**
  - Only "v1" is valid for this version
- **measureId**
  - Requires a valid Measure ID
- **state**
  - state input requires: "All" or one-to-many valid state FIPS Code(s) input, separated by commas *without* spaces
  - A valid state FIPS code is between 1 and 56 (exclude 03, 07, 14, 43, 52) or
  - "ALL", which will include states that have data for this measure
  - Not all states have data for every measure. If a state does not have data for the selected measure, the query will return an empty data set. States with their available measures are listed in the Data API Discovery Guide.
  - Example: "06,26,45" are FIPS code for CA, MI and SC
  - Possible Error Conditions that may occur, if not using "All" (not case sensitive), that are returned as Not Integer message include:
    - 1. Double commas - "06,,26,45"
    - 2. Not numeric or comma - "CA.ID"
    - 3. Length greater than 2 - "045"
    - 4. Not a valid FIPS Code (returns Not Valid FIPS code message) -"03,07,14,43,52" (Not valid state FIPS code)
- **includeCounty**
  - Requires either a one or zero (true or false) for including data at the county level
  - Only year is valid for this version
  - Year input requires: "All" or only one valid 4 digit year input
  - Valid year to query are between 1900 and 2100
  - An empty data set will be returned if a selected measure, state(s) and year(s) does not have data
- **isSmoothed**
  - Requires either a one or zero (true or false) for having data that is geographically smoothed:
    - NOTE: the majority of measures *do not* have smoothing value
- **returnType**
  - Only "json" is accepted for this version
- **apiToken (optional)**
  - Called via "apiToken=TOKEN" where TOKEN is the unique identifier supplied by the Environmental Public Health Tracking Network

#### Output: Core Holder Schema

#### Example:

"[ephracking.cdc.gov/apigateway/api/v1/getData/66/36/0/2012/0/json](https://ephracking.cdc.gov/apigateway/api/v1/getData/66/36/0/2012/0/json)" provides a listing of values for `measureId = 66` (Age-adjusted incidence rate of Thyroid Cancer per 100,000 population), `state FIPS = 36` (New York), `includeCounty = 0` (false), `temporal = 2012` (year), `includeSmoothing = 0` (false) and `returnType = json`. The return values (partial output) are:

```
{ "legendResult": [], "tableResult": [ { "id": "171910", "dataValue": "19.2", "displayValue": "19.2", "year": "2012", "groupBy": "1", "geographicTypeId": "1", "calculationType": "Age Adjusted Rate", "noDataId": "-1", "noDataBreakGroup": "0", "stabilityFlag": "1", "suppressionFlag": "0", "title": "New York", "rollover": [ "Age Adjusted Rate: 19.2" ], "parentGeoAbbreviation": null, "geoAbbreviation": "NY", "geoId": "36", "geo": "New York", "parentGeoId": null, "parentGeo": null } ], "tableResultWithCI": [], "devDisabilitiesTableResult": [], "modeledTableResult": [], "healthImpactTableResult": [], "airToxicTableResult": [], "climateChangeTableResult": [], "tableResultWithMonth": [], "tableResultWithQuarter": [], "dailyEstimatesTableResult": [], "heatEpisodesTableResult": [], "cutPointTableResult": [], "pwsTableResult": [], "biomonitoringTableResult": [], "benchmarkInformation": { "id": "27", "measureId": "66", "benchmarkId": "9", "measureGeographicTypeId": "1", "units": null, "geographicDisplay": "National", "benchmarkName": "Rate per 100,000 population", "benchmarkShortName": "Rate per 100,000 population", "multipleSelectionActionId": "1", "multipleSelectionAction": "Continue", "active": null, "geographicTypeDisplay": "National Benchmark", "benchmarkFullName": "National Rate per 100,000 population", ... }
```

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## Glossary

Data are presented as measures and organized by indicator and content area.

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Term	Definition
apiToken	The unique identifier supplied by the Environmental Public Health Tracking Network for additional access to Environmental Public Health Tracking data. Register to receive a token for the Environmental Public Health Tracking Network API by contacting <a href="mailto:trackingsupport@cdc.gov">trackingsupport@cdc.gov</a> .
Benchmark	A standard against which a measure can be compared.
childMeasure	A measure that is specific to children
Content Area	A content area is a topic within environmental public health. Examples are "asthma", "Drinking Water", "Homes". A content area may have more than one indicator.
ContentAreaId	Integer id for each content area
ContentAreaName	Name used to describe each content area
ContentAreaShortName	Label used to describe each content area
ExternalURL	References a URL external to the Environmental Public Health Tracking Network

ExternalURLText	Display text for the external URL
FIPS	Federal Information Processing Specification - FIPS state codes and county codes are numeric codes defined in U.S. Federal Information Processing Standard Publications.
GeographicLevel	Level or Type of geography level for a measure e.g. State , County
GeographicLevelAbbreviation	Abbreviation of the geographic type or level
GeographicLevelId	Integer Id of geographic level 1 - State,2 - County, 6 - National, 7 - Census Tract
GeographicItem	Geographic name or location for this measure
GeographicItemAbbreviation	Abbreviation of the geographic name of location
GeographicItemId	Geographic Id - State and Counties uses FIPs codes - numeric codes defined to identify U.S. states and counties.
Indicator	One or more items, characteristics or other things that will be assessed. It is assessed through direct and indirect measures. A content area may have more than one indicator.
IndicatorId	Integer Id for each indicator
IndicatorName	Name used to describe each indicator
IndicatorShortName	Label used to describe each indicator
LegendResult	Array of bracketed values used to display a map's legend
Measure	A summary characteristic or statistic, such as a sum, percentage, or rate. There may be several measures of a specific indicator which when considered in conjunction fully describe the indicator.
MeasureId	Integer Id for each measure
MeasureName	Name used to describe each measure
MeasureShortName	Label used to describe each measure
SelectOptionsType	Selection options type available for each measure
SelectOptionsTypeId	Integer Id for each select options type 1 - No Restrictions, 3 - Single Child, Single Parent if Applicable, 4 - No Geographic Selection, 5 - Single Parent, All Children
Smoothing Level Availability	Level or type of smoothing available for a measure - Smoothed measures are geographically based averages. Geographic smoothing algorithms borrow information from neighboring areas to stabilize results from sparsely populated areas. Most measures are not smoothed.
SmoothingType	Integer Id for each smoothing level or type 1 - Not Smoothed, 2 - Smoothing Only, 3 - Both
Stability	Any rate or measure with a relative standard error (RSE) greater than or equal to 30% is flagged as unstable or, in the case of cancer data, suppressed.
State FIPS	FIPS state codes are numeric codes defined by Federal Information Processing Specification.
StratificationDisplayName	Display Name of stratification

StratificationIsDisplayed	Stratification Displayed 0 - False, 1- True
StratificationIsGrouped	Stratification Grouped 0 - False, 1- True
StratificationIsRequired	Stratification Required 0 - False, 1- True
StratificationIsStratificationSelectable	Stratification Selectable 0 - False, 1- True
StratificationItemsDefault	Default Selection for stratification items
StratificationItemLocalId	Local Id for sorting items
StratificationItemLongName	Long name of stratification item
StratificationItemName	Short Name of stratification item
StratificationItemUseLongName	Use long name of stratification item for display
StratificationLevelAbbreviation	Stratification level abbreviation
StratificationLevel	Stratification level
StratificationLevelId	Stratification level Id
StratificationType	Stratification type
StratificationTypeAbbreviation	Stratification type Abbreviation
StratificationTypeColumnName	Column heading for stratification type
StratificationTypeId	Id for stratification type
TableResult	An array of values returned from a query to displayed as a table
Temporal	A sequence of time such as year or month
TemporalId	Integer id for each temporal item
TemporalTypeId	Integer id for each temporal type 1 - Year, 2 - MultiYear, 3 - Quarter, 4 - Month, 5 - None
TemporalTypeName	Name for each temporal type
Version	Version of this api program. Only "v1" is valid.
Years	Time assigned to a measure

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## Core Holder Schema

### Core Holder

The core holder is a complete query result that returns the values required to display a map, table and chart.

This is an overview schema for the core holder.

```
{
  "type": "object",
  "properties": {
```

```
"legendResult":{
  "type": "array",
  "items": {}
},
"tableResult": {
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "id": {
        "type": "string"
      },
      "dataValue": {
        "type": "string"
      },
      "displayValue": {
        "type": "string"
      },
      "year": {
        "type": "string"
      },
      "groupBy": {
        "type": "string"
      },
      "geographicTypeId": {
        "type": "integer"
      },
      "calculationType": {
        "type": "string"
      },
      "noDataId": {
        "type": "integer"
      },
      "noDataBreakGroup": {
        "type": "integer"
      },
      "stabilityFlag": {
        "type": "string"
      },
      "suppressionFlag": {
        "type": "string"
      }
    }
  },
}
```

```
"title": {
  "type": "string"
},
"rollover": {
  "type": "array",
  "items": {
    "type": "string"
  }
},
"geo": {
  "type": "string"
},
"geoId": {
  "type": "string"
},
"parentGeoId": {
  "type": "null"
},
"parentGeo": {
  "type": "null"
},
"parentGeoAbbreviation": {
  "type": "null"
},
"geoAbbreviation": {
  "type": "string"
}
}
},
"tableResultWithCI": {
  "type": "array",
  "items": {}
},
"devDisabilitiesTableResult": {
  "type": "array",
  "items": {}
},
"modeledTableResult": {
  "type": "array",
  "items": {}
},
}
```

```
"healthImpactTableResult": {
  "type": "array",
  "items": {}
},
"airToxicTableResult": {
  "type": "array",
  "items": {}
},
"climateChangeTableResult": {
  "type": "array",
  "items": {}
},
"tableResultWithMonth": {
  "type": "array",
  "items": {}
},
"tableResultWithQuarter": {
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  "items": {}
},
"dailyEstimatesTableResult": {
  "type": "array",
  "items": {}
},
"heatEpisodesTableResult": {
  "type": "array",
  "items": {}
},
"cutPointTableResult": {
  "type": "array",
  "items": {}
},
"pwsTableResult": {
  "type": "array",
  "items": {}
},
"biomonitoringTableResult": {
  "type": "array",
  "items": {}
},
},
"benchmarkInformation": {
  "type": "object",
```

```
"properties": {
  "id": {
    "type": "integer"
  },
  "measureId": {
    "type": "integer"
  },
  "benchmarkId": {
    "type": "integer"
  },
  "measureGeographicTypeId": {
    "type": "integer"
  },
  "units": {
    "type": "null"
  },
  "geographicDisplay": {
    "type": "string"
  },
  "benchmarkName": {
    "type": "string"
  },
  "benchmarkShortName": {
    "type": "string"
  },
  "multipleSelectionActionId": {
    "type": "integer"
  },
  "multipleSelectionAction": {
    "type": "string"
  },
  "active": {
    "type": "null"
  },
  "hasMap": {
    "type": "boolean"
  },
  "hasTable": {
    "type": "boolean"
  },
  "hasChart": {
    "type": "boolean"
  }
}
```



```
    },
    "geographicTypeDisplay": {
      "type": "string"
    },
    "benchmarkFullName": {
      "type": "string"
    }
  }
}
```

```
},
```

```
"benchmarkResult": {
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "id": {
        "type": "string"
      },
      "dataValue": {
        "type": "string"
      },
      "displayValue": {
        "type": "string"
      },
      "year": {
        "type": "string"
      },
      "groupBy": {
        "type": "string"
      },
      "geographicTypeId": {
        "type": "integer"
      },
      "calculationType": {
        "type": "null"
      },
      "geo": {
        "type": "null"
      },
      "geoId": {
        "type": "null"
      },
      "parentGeoId": {
```

```
    "type": "null"
  },
  "parentGeo": {
    "type": "null"
  },
  "parentGeoAbbreviation": {
    "type": "null"
  },
  "geoAbbreviation": {
    "type": "null"
  }
}
},
"measureStratificationLevel": {
  "type": "object",
  "properties": {
    "id": {
      "type": "integer"
    },
    "measureId": {
      "type": "integer"
    },
    "stratificationLevelId": {
      "type": "integer"
    },
    "smoothingTypeId": {
      "type": "integer"
    },
    "suppressionTypeId": {
      "type": "integer"
    }
  }
},
"lookupList": {
  "type": "object",
  "properties": {}
},
"measureInformationDTO": {
  "type": "object",
  "properties": {
    "measureInformation": {
```

```
"type": "object",
"properties": {
  "calculationId": {
    "type": "integer"
  },
  "calculation": {
    "type": "null"
  },
  "calculationType": {
    "type": "null"
  },
  "calculationColumnName": {
    "type": "null"
  },
  "parentTemporalType": {
    "type": "null"
  },
  "temporalType": {
    "type": "null"
  },
  "temporalColumnName": {
    "type": "null"
  },
  "temporalCount": {
    "type": "integer"
  },
  "hasStability": {
    "type": "null"
  },
  "smoothingType": {
    "type": "null"
  },
  "precision": {
    "type": "integer"
  },
  "hasConfidenceInterval": {
    "type": "null"
  },
  "confidenceIntervalName": {
    "type": "null"
  },
  "hasMultiMeasure": {
```

```
        "type": "null"
    },
    "colorCount": {
        "type": "integer"
    }
}
},
"tableDisplayDTO": {
    "type": "array",
    "items": {}
},
"chartDisplayDTO": {
    "type": "array",
    "items": {}
},
"mapDisplayDTO": {
    "type": "array",
    "items": {}
},
"chartAxisExceptionDTO": {
    "type": "array",
    "items": {}
},
"measureCalculationExceptionDTO": {
    "type": "array",
    "items": {}
},
"measureDisplayException": {
    "type": "array",
    "items": {}
}
}
},
"tableResultClass": {
    "type": "string"
},
"tableReturntype": {
    "type": "string"
},
"publicAPIUrl": {
    "type": "string"
},
}
```

```

"publicAPIServerUrl": {
  "type": "string"
},
"fullPublicAPIUrl": {
  "type": "string"
}
}
}

```

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## Glossary - Core Holder

Core Holder is a complete query result needed to display a map, table and chart. This glossary only contains the essential items that will be of value to our API user.

Core Holder	Complete query result needed to display a map, table and chart.	
	lengendResult	<b>Array of values used to populate a map's legend with break groups that show the stratification for a query</b>
	breakGroup	Unique integer Id of break group
	minBreak	Minimum value of break group
	maxBreak	Maximum value of break group
	<b>tableResult</b>	<b>Array of values used to populate a table for a query</b>
	id	Unique integer Id of table result
	dataValue	Value
	displayValue	Formatted Value
	year	Year
	groupById	Id of group by
	geographicTypeid	Integer Id of geographic type 1 - State, 2 - County, 6 - National, 7 - Census Tract
	calculation type	Calculation Type
	noDataId	Id from no data table
	noDataBreakGroup	Id of no data breaks
	stabilityFlag	Stable value 0 - False, 1- True
	suppressionFlag	Suppressed 0 - False, 1- True
	title	Tile of column
	rollover	Display of Roll over
	geo	geography code
	geo ID	Id of geography Code

	<b>benchmarkInformation</b>	<b>Values to define the benchmark used in this query</b>
	id	benchmark information id
	measureId	measure Id
	benchmarkId	benchmark Id
	measureGeographicTypeId	Geographic Type Id for this measure
	units	display units
	geographicDisplay	Display Value for this geography
	benchmarkName	Display Name for this benchmark
	<b>benchmarkResult</b>	<b>Array of values used to populate the benchmarks for a query</b>
	id	Unique integer Id of benchmark result
	dataValue	Value
	displayValue	Formatted Value
	year	Year
	groupById	Id of group by
	geographicTypeId	Integer Id of geographic type 1 - State, 2 - County, 6 - National, 7 - Census Tract
	calculation type	Calculation Type

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