

Batch Upload



We will now discuss and demonstrate how programs can use the batch upload feature to automatically enter UIC inventory and 7520 data in the application. In order to use the batch upload feature, users will need the four batch upload templates. For convenience, these templates are available for download from the homepage of the application.

Note that a separate training webinar was held on September 25, 2018. That training goes into extensive detail on how to use the batch upload feature and batch upload training. Links to the video recording of that training, as well as a PDF copy of the training slides, are available from the application homepage. Today's training will briefly cover batch upload, but it is recommended that users reference the training materials from September 25, 2018.

Data Entry- Webforms vs Templates



Webforms

- Manual data entry
- Web interface
- Data must be input form-by-form

Or

Templates

- Provide format for “batch upload”
- Uploads can be .xlsx or .csv files
- Data can be input for multiple forms at once

Before getting into too much detail, it is helpful to spend some time understanding the purpose of the batch upload templates.

There are two ways that you are able to enter data into the application. The first is via webforms, which have already been covered extensively in this training.

The second way that users will be able to enter data into the application, and the focus of this section, is via batch upload. To use the batch upload process, users will need to format data in accordance with the batch upload templates that EPA has distributed, in either a .xlsx or .csv file. Users will then log into the application via their web browsers and use a wizard to select and upload the file containing the data.

Data Entry- Templates



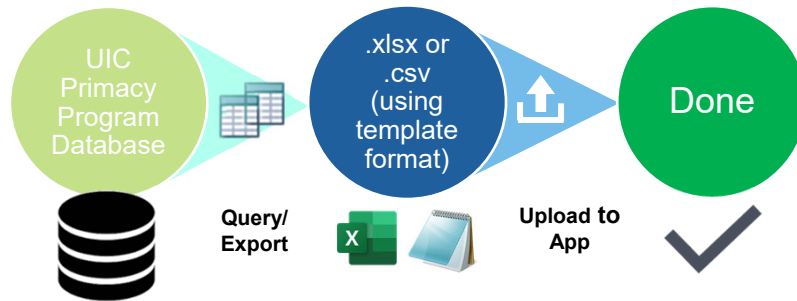
1	PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPer
2	03DI	2018	4Q	03	Pennsylvania		2D	2	22	
3	03DI	2018	4Q	03	Pennsylvania		2R	3	33	
4	03DI	2018	4Q	03	Pennsylvania		2H			
5	03DI	2018	4Q	03	Pennsylvania		5	6	66	
6	03DI	2018	4Q	03	District of Columbia		5			
7	03DI	2018	4Q	03	Virginia		1			
8	03DI	2018	4Q	03	Virginia		2D			
9	03DI	2018	4Q	03	Virginia		2R			
10	03DI	2018	4Q	03	Virginia		2H			
11	03DI	2018	4Q	03	Virginia		3			
12	03DI	2018	4Q	03	Virginia		4			
13	03DI	2018	4Q	03	Virginia		5			
14										
15										
16										

- **Templates**
- Provide format for “batch upload”
- Uploads can be .xlsx or .csv files
- Data can be input for multiple forms at once

This slide shows a screenshot of a batch upload template file, opened in Microsoft Excel. To use the batch upload function and upload large quantities of data to the application, users can format data as an Excel spreadsheet (.xlsx) or comma-separated value (.csv) file as described in the template files. If using an Excel spreadsheet for uploading data, all cells must be formatted as text.

This image is a screenshot of the batch upload template for Form 7520 1-3. We will go into more detail on this template later in this training webinar.

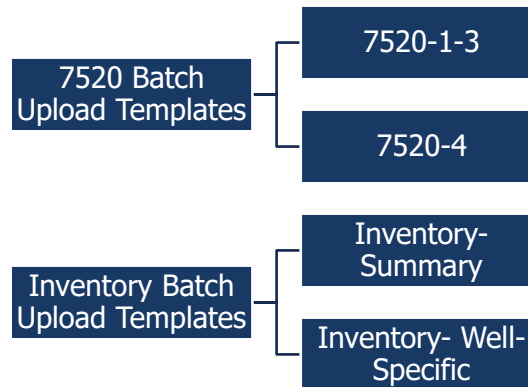
Data Entry Using Templates



This slide shows the process for the use of the batch upload functionality. Data that is initially held in a program's database is queried and exported into a .xlsx or .csv file. The file must be formatted according to the templates provided by EPA. The file is then uploaded to the application, and the data submission is then complete.

If uploading a .xlsx file, all fields must be formatted as text.

Available Batch Upload Templates



There are four available batch upload templates.

Two templates are available for the 7520 data because 7520 Forms 1-3 and 7520 Form 4 are different in structure and therefore cannot both be included in the same batch upload template.

For inventory data submissions, programs have the option of submitting either summary inventory information or well-specific inventory information. Therefore, a program would only use one of the two inventory batch upload templates.

We will now go through a live demonstration where we will show how the 7520-1 through 7520-3 batch upload template can be used to upload data into the application. We will not go through live demonstrations for the other three batch upload templates, but we will speak to the key differences between those batch upload templates and the 7520-1-3 batch upload template.

Template: Form 7520 1 through 3 (Live Demo)

Header data from columns A-D, G are required

Data fields from 7520-1 through 7520-3

	A	B	C	D	E	F	G	H	I	J	K
4	7520-1 thru 3 Column Template										
5	PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist	AreaPermit
6	03DI	2018	4Q	03	Pennsylvania		2D	2	22		
7	03DI	2018	4Q	03	Pennsylvania		2R	3	33		
8	03DI	2018	4Q	03	Pennsylvania		2H				
9	03DI	2018	4Q	03	Pennsylvania		5	6		66	
10	03DI	2018	4Q	03	Virginia		1				
11	03DI	2018	4Q	03	Virginia		2D				
12	03DI	2018	4Q	03	Virginia		2R				
13	03DI	2018	4Q	03	Virginia		2H				
14	03DI	2018	4Q	03	Virginia		3				
15	03DI	2018	4Q	03	Virginia		4				
16	03DI	2018	4Q	03	Virginia		5				
17	03DI	2018	4Q	03	District of Columb		5				
18											

Either State or Tribe must be entered but not both

This slide is a screenshot of what is being covered in the recording from 0:30:40-0:31:43

The fields in the batch upload templates are color coded based on whether they contain data from the header section or from the data section of Form 7520 or inventory. The header data is the data found at the top of the Form 7520 including primacy agency, federal fiscal year, state or tribe, and well class.

Each of the header data fields will be discussed shortly. It is important to note that in this example, columns A-D, as well as column G, are all required. Either State or Tribe (columns E and F, respectively) must be entered, but not both.

Starting with column H, each field corresponds to a data element on Form 7520-1 through 3. Fields from 7520-1 are represented first, then 7520-2A, 7520-2B, and 7520-3.

Template: Form 7520 1 through 3 (Live Demo)



Data Dictionary for the 7520-1 through 7520-3 Template				
Legend				
7520-1	7520 Form Header			
7520-2A				
7520-2B				
7520-3				
For all fields except the Header (rows 7-13 in this data dictionary), programs may enter a number, "NA" if the field is not applicable, or "U" if the information is unknown or not captured. Fields designated at U require explanation.				
If data is uploaded as a .xlsx file, all data should be formatted as text for successful import.				
Field Name	Description	Source of Field	Form Section	
PRI_AGENCY_CODE	Four character unique code assigned to each agency or EPA Region in the National UIC Database. Please see worksheet "Primacy Agency Codes" in this file for the list of codes.			
FedFiscalYr	Federal fiscal year. Four character field size.			
FYQuarter	Indicates the quarter of the fiscal year represented by the data, e.g. 1Q, 2Q, 3Q, 4Q. For the 7520-1 through -3, mid-year reporting will be represented by "2Q" and end of year reporting will be represented by "4Q." Inventory data will be assigned "4Q" to represent end of year reporting.			
Region	EPA Region where state primacy or EPA Regional office is located. Two character field size. Options range from 01 - 10.			
State	State where program or EPA Region implements program. State name format should be full name, not			

The field key worksheet includes descriptions of each field

This slide is a screenshot of what is being covered in the recording from 0:31:43-0:32:38

The field key tab includes descriptions of each field in the template, as well as the source form and form section that each field corresponds to. Each program can look up their four-character primacy agency code using the Primacy Agency Codes worksheet. Fiscal Year Quarter is either 2Q for mid-year reporting or 4Q for end-of-year reporting. A program should fill in either State or Tribe, but not both. If a program is a state, they should enter the full name of their state, rather than the two-character postal abbreviation. If a program is a tribe, or an EPA region is reporting data for a DI tribe, the Bureau of Indian Affairs (BIA) Code should be given in the Tribe field. BIA codes for every tribe can be found in the Tribe Codes worksheet.

Data elements for 7520 data can all be matched up with the correct box on a 7520 form by using the columns "Source of Field" and "Form Section".

Template: Form 7520 1 through 3 (Live Demo)



	A	B	C	D
1	PRI_AGENCY_CODE	Primacy Agency Name		
2	01DI	US EPA Region 1		
3	02DI	US EPA Region 2		
4	03DI	US EPA Region 3		
5	04DI	US EPA Region 4		
6	05DI	US EPA Region 5		
7	06DI	US EPA Region 6		
8	07DI	US EPA Region 7		
9	08DI	US EPA Region 8		
10	09DI	US EPA Region 9		
11	10DI	US EPA Region 10		
12	AKOG	Alaska Oil and Gas Conservation Commission		
13	ALEM	Alabama Dept. of Environmental Management		
14	ALOG	State Oil and Gas Board of Alabama		
15	AREQ	Arkansas Department of Environmental Protection		
16	AROG	Arkansas Oil and Gas Board		
17	CAOC	California Department of Conservation Resources		Geothermal
18	COOG	Colorado Oil and Gas Conservation Commission		
19	CTEP	Connecticut Department of Environmental Protection		
20	DENR	Delaware Department of Natural Resources and Environmental Control		
21	FLEP	Florida Department of Environmental Protection		
22	FPT8	Fort Peck Tribes		

Primacy agency codes are found in the "Primacy Agency Codes" worksheet

This slide is a screenshot of what is being covered in the recording from 0:32:38-0:32:53

The "Primacy Agency Codes" worksheet lists the four-character codes associated with each primacy agency. These codes are used in the PRI_AGENCY_CODE field on each of the templates.

Template: Form 7520 1 through 3 (Live Demo)



	A	B	C	D	E	F	G	H
1	BIA_CODE	NAME	DESCS	REGION	STATE	EPA_TRIBAL_ID		
2	001	Eastern Band of Cherokee Indians	Eastern Cherokee	04DI	NC	10000076		
3	006	Onondaga Nation	Onondaga	02DI	NY	10000184		
4	007	Saint Regis Mohawk Tribe	St. Regis Mohawk	02DI	NY	10000251		
5	008	Tonawanda Band of Seneca	Seneca-Tonawanda	02DI	NY	10000303		
6	009	Tuscarora Nation	Tuscarora	02DI	NY	10000312		
7	011	Oneida Nation of New York	Oneida (NY)	02DI				
8	012	Seneca Nation of New York	Seneca Nation of New York	02DI				
9	013	Cayuga Nation	Cayuga Nation	02DI				
10	014	Passamaquoddy Tribe of Maine	Passamaquoddy Tribe of Maine	01DI	ME	10000195		

Bureau of Indian Affairs Codes are found in the Tribe Codes worksheet

This slide is a screenshot of what is being covered in the recording from 0:32:53-0:33:09

If a record is applicable to a tribe, then the 'Tribe' field on the batch upload templates should contain the BIA code of that tribe. The 'Tribe Codes' worksheet lists the BIA codes of each tribe currently in the database.

Template: Form 7520 1 through 3 (Live Demo)



	A	B	C	D	E	F	G	H	I	J	K	L	M	
4	7520-1 thru 3 Column Template													
5	PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist	AreaPermitNew	AreaPermitExist	AreaWellNew	AreaW
6	03DI	2018	4Q	03	Pennsylvania		2D	2	22					
7	03DI	2018	4Q	03	Pennsylvania		2R	3	33					
8	03DI	2018	4Q	03	Pennsylvania		2H							
9	03DI	2018	4Q	03	Pennsylvania		5	6	66					
10	03DI	2018	4Q	03	Virginia		1							
11	03DI	2018	4Q	03	Virginia		2D							
12	03DI	2018	4Q	03	Virginia		2R							
13	03DI	2018	4Q	03	Virginia		2H							
14	03DI	2018	4Q											
15	03DI	2018	4Q											
16	03DI	2018	4Q											
17	03DI	2018	4Q											
18														
19	Tips for Successful Batch Upload: If uploading the template as a .xlsx file, all cell contents are automatically converted to text. Primary agency codes may be found in sheet "Primacy Agency Codes". 2-character codes used in the National UIC Database. Data must be entered in the template for fields in columns A through M. Programs should enter data into either State or Tribe fields, but not both. Enter State field or Tribe field for the application to import data successfully. codes may be found in sheet, "Tribe Codes." The application will interpret any blank cells in columns H through CV as "0".													
20														
21														
22														
23														
24														

An example of a template with data is found in the Example worksheet

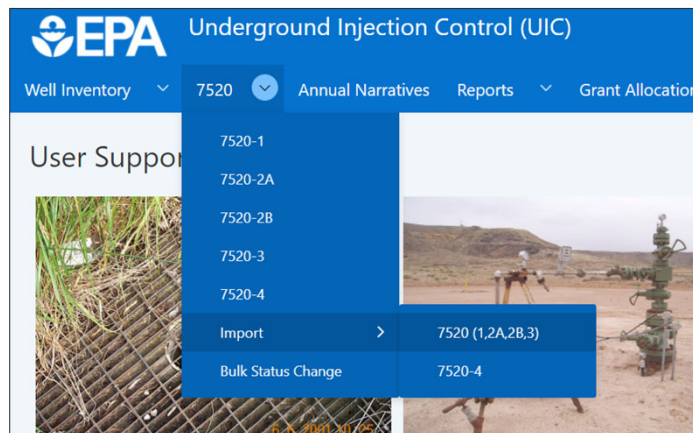
This slide is a screenshot of what is being covered in the recording from 0:33:09-0:33:23

The example worksheet shows a template populated with data. Comment bubbles are used in this worksheet to point out key features.

Finding the Import Menu



Template: Form 7520 1 through 3 (Live Demo)



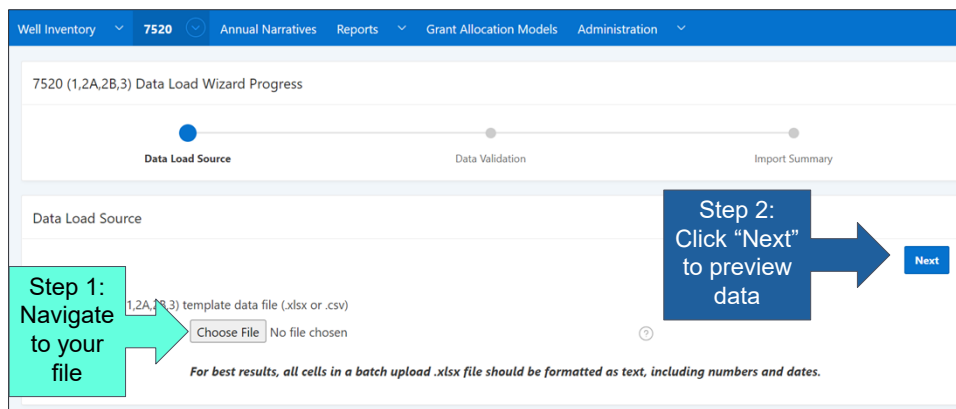
This slide is a screenshot of what is being covered in the recording from 0:33:23-0:33:42

We will now demonstrate how to use the application to upload a batch upload template file that contains data. First, the user will navigate through the drop-down menu for the 7520 module, and select import and then 7520 (1,2A,2B,3).

Data Load Source



Template: Form 7520 1 through 3 (Live Demo)



This slide is a screenshot of what is being covered in the recording from 0:33:42-0:34:23

A data load wizard appears that assists the user in uploading data into the application. The user clicks the “Choose File” button and navigates to either a .xlsx or .csv file that contains the data that they would like to batch upload. Once the file is chosen, the user clicks the Next button.

If the user is uploading an Excel spreadsheet (.xlsx), all fields must be in text format for successful import. The file must also contain only one worksheet with the data for import with the first row containing the column headers

Data Validation

Template: Form 7520 1 through 3 (Live Demo)



7520 (1,2A,2B,3) Data Load Wizard Progress

Data Load Source Data Validation Import Summary

The "Errors" column appears during Data Validation

If no errors, click on "Load Data"

Import Status	Errors	Pri Agency Code	Fedfiscalyr	Fyquarter	Region	State	Tribe	Wellclass	Permitapps	Indpe
New		03DI	2018	4Q	03	Pennsylvania		2D	2	22
New		03DI	2018	4Q	03	Pennsylvania		2R	3	33
New		03DI	2018	4Q	03	Pennsylvania		2H		
New		03DI	2018	4Q	03	Pennsylvania		5	6	66
New		03DI	2018	4Q	03	District of Columbia		5		

1 - 12 of 12

Load Data

If any errors exist in the uploaded data, they will need to be addressed in the original file and the file re-uploaded.

This slide is a screenshot of what is being covered in the recording from 0:34:23-0:35:10

The Data Validation screen shows any errors that the application has detected in the batch upload file. The number of errors will be displayed at the top, and error descriptions associated with individual rows will be displayed in the Errors column. An example of an error would be if the Primacy Agency Code is not one of the recognized codes.

If errors exist, the user will need to correct them in their batch upload file and start the process over. The 'Load Data' button will only appear if there are zero errors. Press the Load Data button to complete the batch upload process.

Note that after loading data, the user will still need to open each record from the listview and submit it to move the record through the workflow.

Batch Upload Scenarios: How Does the Application Interpret Data?

PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist
03DI	2018	4Q	03	Virginia		1	1		
03DI	2018	4Q	03	Virginia		2D		2	
03DI	2018	4Q	03	Virginia		2R			3
03DI	2018	4Q	03	Virginia		2H			
03DI	2018	4Q	03	Virginia		3			
03DI	2018	4Q	03	Virginia		4			
03DI	2018	4Q	03	Virginia		5			

Blank cells are imported as zeros

PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist
03DI	2018	4Q	03	Virginia		1	1	0	0
03DI	2018	4Q	03	Virginia		2D	0	2	0
03DI	2018	4Q	03	Virginia		2R	0	0	3
03DI	2018	4Q	03	Virginia		2H	0	0	0
03DI	2018	4Q	03	Virginia		3	0	0	0
03DI	2018	4Q	03	Virginia		4	0	0	0
03DI	2018	4Q	03	Virginia		5	0	0	0

Example 1: Program uploads a template to the UIC application that contains blanks in the data fields.

We will now use several examples to show how the application interprets different batch upload files.

In this example, we can see that blank cells are imported as zeros for the data columns (PermitApps, IndPermitNew, and IndPermitExist). This means that programs do not need to fill the blanks with zeros in the batch upload file. Blank cells in the header data columns (PRI_AGENCY_CODE through WellClass) are not imported as zeros.

Batch Upload Scenarios: How Does the Application Interpret Data?

PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist
03DI	2018	4Q	03	Virginia		1	1		

Since the batch upload file contained a record for Class I, the application automatically created records for Classes II-V with 0's for all fields.

PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist
03DI	2018	4Q	03	Virginia		1	1	0	0
03DI	2018	4Q	03	Virginia		2D	0	0	0
03DI	2018	4Q	03	Virginia		2R	0	0	0
03DI	2018	4Q	03	Virginia		2H	0	0	0
03DI	2018	4Q	03	Virginia		3	0	0	0
03DI	2018	4Q	03	Virginia		4	0	0	0
03DI	2018	4Q	03	Virginia		5	0	0	0

Example 2: Program uploads a template to the UIC application that contains data for only one well class.

In this example, the user inputs data for class I, but does not input any data for class II-V. In this example EPA Region 3 (Primacy Agency 03DI) is reporting DI data for Virginia. The application recognizes that EPA Region 3 implements the UIC program for all well classes in Virginia, and automatically creates records with all zeros for the unreported well classes (i.e. class II-V). This means that programs do not need to manually create rows for the well classes that will simply have all zero values.

Batch Upload Scenarios: How Does the Application Interpret Data?

Template
File with
Missing
Well Class
Data

OR

Template
File with
Missing
State Data

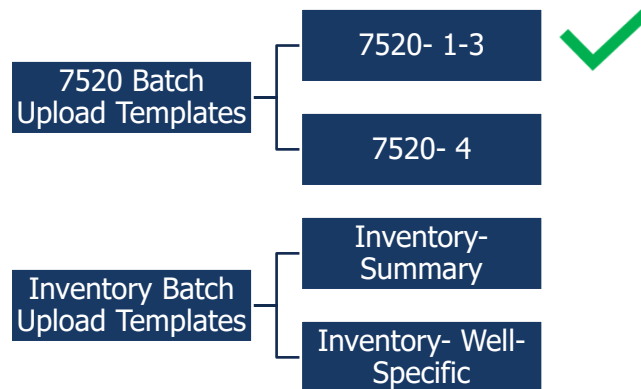
PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist
03DI	2018	4Q	03	Virginia			1		
03DI	2018	4Q	03	Virginia		2D		2	
03DI	2018	4Q	03	Virginia		2R			3
03DI	2018	4Q	03	Virginia		2H			
03DI	2018	4Q	03	Virginia		3			
03DI	2018	4Q	03	Virginia		4			
03DI	2018	4Q	03	Virginia		5			

PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist
03DI	2018	4Q	03				1	1	
03DI	2018	4Q	03	Virginia		2D		2	
03DI	2018	4Q	03	Virginia		2R			3
03DI	2018	4Q	03	Virginia		2H			
03DI	2018	4Q				3			
03DI	2018	4Q				4			
03DI	2018	4Q				5			

No form
created by
application

In this example, the user has left required fields in the header section blank. The upload will not be successful, and the application will provide a message identifying the error. The batch upload does not import partial data. If there are errors, they will need to be fixed in the batch upload file and the import will need to be restarted.

Available Batch Upload Templates



We have now completed a demonstration of how to use the 7520 1-3 batch upload template. We will now discuss the remaining three templates. A live demonstration will not be done because the remaining templates are constructed very similarly to the 7520 1-3 template, and the process is very similar.

Template: Form 7520-4



The template file ([UIC 7520-4 Import template \(read only\).xlsx](#)) containing template, field key, example, primacy agency codes, and tribe codes.

Violations & enforcement actions marked by a capital "X"

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
4	7520-4 Column Template														
5	PRI	AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	OperatorName	OperatorStreet	OperatorCity	OperatorState	OperatorZIP	WellNumber	ViolationDate
6															

Header data from columns A-D, G are required

Data fields from 7520-4

In the 7520-4 template, each row corresponds to a different violation or to a different enforcement action. There should be no row with more than one violation or more than one enforcement action. Violations and enforcement actions should be marked by a capital X. If more than one enforcement action is associated with a particular violation, then create two rows for the same violation- one for each enforcement action.

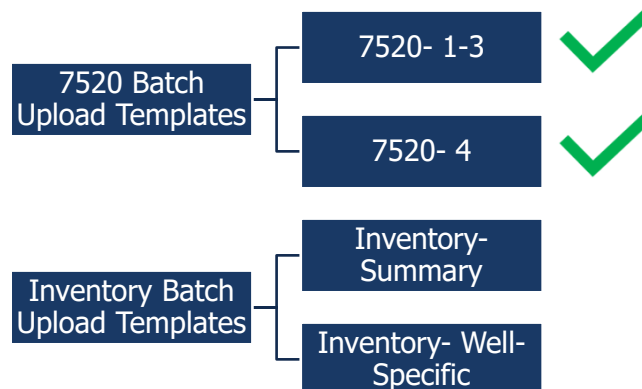
Template: Form 7520-4



Data Dictionary for the 7520-4 Template			
Field Name	Description	Source of Field	Form Section
Legend	7520 Form Header		
	7520-4		
PRI_AGENCY_CODE	Four character unique code assigned to each agency or EPA Region in the National UIC Database. Please see worksheet "Primacy Agency Codes" in this file for the list of codes.		
FedFiscalYr	Federal fiscal year. Four character field size.		
FYQuarter	Indicates the quarter of the fiscal year represented by the data, e.g. 1Q, 2Q, 3Q, 4Q. For the 7520-1 through -3, mid-year reporting will be represented by "2Q" and end of year reporting will be represented by "4Q." Inventory data will be assigned "4Q" to represent end of year reporting.		
Region	EPA Region where state primacy or EPA Regional office is located. Two character field size. Options range from 01 - 10.		
State	State where program or EPA Region implements program. State name format should be full name, not two character postal abbreviation. Tribal programs should leave this field blank.		
Tribe	Bureau of Indian Affairs Code unique to each tribe. Please see worksheet "Tribe Codes" for the list of codes.		
WellClass	Injection well class. Options include 1H for hazardous waste, 1M for municipal waste, 1I for industrial waste, 2R for enhanced recover, 2D for saltwater disposal, 2H for liquid hydrocarbon storage, 3, 4, 5 for Form 7520-4.	7520-4	II.
OperatorName	Name of the primary contact for the injection well	7520-4	III.
OperatorStreet	Street address of the primary contact for the injection well	7520-4	III.

This is the field key for the 7520-4 template. Note that Class I wells are required to be identified as hazardous, municipal, or industrial, per the instructions on the back of the 7520-4. This is different than with the 7520-1 through -3 template, where Class I wells were not broken out into subtypes.

Available Batch Upload Templates



We will now discuss the remaining two batch upload templates, both of which are used for inventory data.



Which Inventory?

EPA accepts either summary-level inventory or well-specific, and we have templates for both.

Summary Level

- Total number of wells broken down by
 - Primacy agency
 - Fiscal year
 - State/Tribe
 - Well Class

Or

Well-Specific

- Listing of all applicable unique wells
- Application is then able to produce summary-level inventory automatically
- Programs may find it easier to submit well-specific inventory

EPA accepts both summary level and well-specific inventory data. A program is able to choose which type of data they submit and there are separate templates for each.

Template: Summary-Level Inventory



The template file ([UIC Summary Well Inventory Template.xlsx](#)) containing template, field key, example, primacy agency codes, and tribe codes.

The screenshot shows an Excel spreadsheet with the following data:

Proj_Agency_Code	FiscalYr	Region	State	Tribe	ClassH	ClassOther	ClassID	ClassIR	ClassOther	ClassIWells	ClassISites	ClassIWells	ClassVWells	ClassVIWells
03DI	2018	03	Pennsylvania				15	1759					15350	

Callouts in the image:

- A yellow box with an arrow pointing to columns A-E: "Header data from columns A-E are required"
- A blue box with an arrow pointing to columns F-O: "Data fields for summary inventory"
- A green box with an arrow pointing to empty cells in columns G, H, I, J, K, L, M, N, O: "Blanks will be uploaded as zeros"

The summary-level inventory template is constructed similarly to the 7520 templates in that it contains both header data and program data. Each row corresponds to a program-state submission for a given year.

Field Key

Template: Summary-Level Inventory

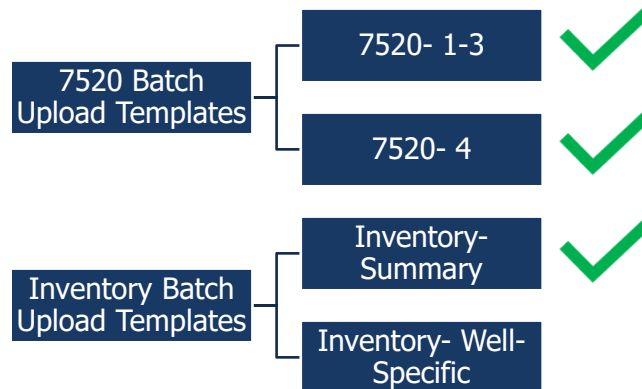


	A	B	C	D
1		Data Dictionary for the Summary Inventory Template		
2				
3	Legend	Inventory Form Header		
4		Summary Inventory		
5				
6		Field Name	Description	
7		PRI_AGENCY_CODE	Four character unique code assigned to each agency or EPA Region in the National UIC Database. Please see worksheet "Primacy Agency Codes" in this file for the list of codes.	
8		FedFiscalYr	Federal fiscal year. Four character field size, e.g. 2018.	
9		Region	EPA Region where state primacy or EPA Regional office is located. Two character field size. Options range from 01 - 10.	
10		State	State where program or EPA Region implements program. State name format: full name, not two character postal abbreviation. Tribal programs should leave the first character blank. Bureau of Indian Affairs Code unique to each tribe. Please see worksheet "Tribal Agency Codes" for list of codes.	
11		Tribe	Bureau of Indian Affairs Code unique to each tribe. Please see worksheet "Tribal Agency Codes" for list of codes.	
12		ClassIH	Number of Class I Hazardous wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.	
13		ClassIOther	Number of Class I Other wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.	
14		ClassIID	Number of Class II Disposal wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.	

Note that well classes do not match exactly with the classes in the Form 7520

The field key describes the column headings in the summary well inventory template. The well classes used for summary inventory are slightly different than well classes in the Form 7520.

Available Batch Upload Templates



Finally, we will discuss the well-specific inventory upload template.

Template: Well-Specific Inventory




The template file ([UIC Well Specific Inventory Template.xlsx](#)) containing template, field key, example, primacy agency codes, and tribe codes.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
4	Summary Inventory Column Template														
5	PRI_AGENCY_CODE	FedFiscalYr	Region	State	Tribe	WellType	WellSummaryClass	WellID	WellName	OpStatus	OpStatusDate	Well_Site	Facility_ID	FacilityName	Lat
6															
7															

Header data from columns A-E are required

Data fields for well-specific inventory

In the well-specific inventory template, each row represents a unique well. Some of the data fields are optional and some are required. The requirements are outlined in the 'field keys' tab of the template.

Template: Well-Specific Inventory 

	A	B	C	D	E
4		Well-Specific Inventory			
5					
6		Field Name	Description	Required or optional?	
7		PRI_AGENCY_CODE	Four character unique code assigned to each agency or EPA Region in the National UIC Database. Please see worksheet "Primacy Agency Codes" in this file for the list of codes.	Required field	
8		FedFiscalYr	Federal fiscal year. Four character field size.	Required field	
9		Region	EPA Region where state primacy or EPA Regional office is located. Two character field size. Options range from 01 - 10.	Required field	
10		State	State where program or EPA Region implements program. State name format should be full name, not two character postal abbreviation. Tribal programs should leave this field blank.	Required that a program enter either State <u>OR</u> Tribe, but not both	
11		Tribe	Bureau of Indian Affairs Code unique to each tribe. Please see worksheet "Tribe Codes" for the list of codes.	Required that a program enter either Well Type <u>OR</u> WellSummaryClass, but not both.	
12		WellType	Well class and (Column A) in the Database inventory.	Required field	
13		WellSummaryClass	Well class used (Column E) in the Permanent, un-	Required field	
14		WellID	program inventory, but need not necessarily be unique to the entire list of well-specific inventory. This field should be assigned to the well for the life of the well.		
15		WellName	Name of well assigned by each program, e.g. Allen Farm #4.	Optional field	
16		OpStatus	Two-letter operating status code of the well. The only operating statuses that will be used to calculate summary inventory are the following: "AC" active, "UC" under construction, "TA" temporarily abandoned.	Optional field	
17		OpStatusDate	Date of the last reflects when the well was last operated or conducted.	Optional field	
18		Well_Site	Name of the well site.	For Class III wells, required field. For all other wells, optional field.	

User may provide either WellType or WellSummary Class data. The "Well Types & Classes worksheet" in the template lists the acceptable WellType codes.

Well site data is required for Class III wells since grant allocations are based on the number of sites

As seen in the other batch upload templates, the Field Key worksheet contains descriptions of each field in the template. Unlike previous templates that have been discussed, some fields are required while others are optional. The only required fields are those necessary to calculate the summary well inventory.

Note that the user has the option of providing WellType or WellSummaryClass. This batch upload template contains a worksheet titled "Well Types & Classes" which provides the list of acceptable choices for these two fields.

It's also important to note that Well Site is a required field for Class III wells only, because the application needs to be able to calculate the number of Class III sites for the summary inventory.

Well Types & Classes Worksheet

Template: Well-Specific Inventory

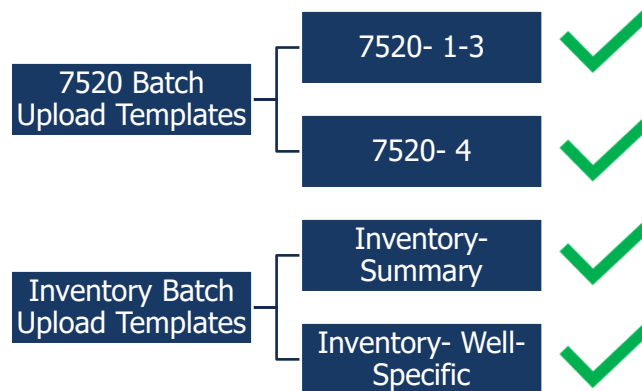


	A	B	C	D	E
	Well Type Code	Category of Well	Description of Category	Corresponding Injection Well Type in 1987 Report to Congress	Summary Inventory Well Class
1					
2	1H	Hazardous Industrial			CLASS1_HW
3	1I	Non-Hazardous Industrial			CLASS1_OTHER
4	1M	Municipal			CLASS1_OTHER
5	1R	Radioactive Waste Disposal			CLASS1_OTHER
6	1W	Drinking Water Treatment Residual	Depending on the well class assigned by the state or DI Region, Drinking Water Treatment Residuals could be Class 1W, 2W, or 5A23.		CLASS1_HW
7	1X	Other			CLASS1_OTHER
8	2A	Annular Disposal			CLASS2_OTHER
9	2D	Produced Fluid Disposal			CLASS2D_WELL
10	2F	Hydraulic Fracturing with Diesel Fuel			CLASS2_OTHER
11	2H	Hydrocarbon Storage			CLASS2_OTHER
	2M	Coal Bed Methane Hydro-			CLASS2_OTHER

As mentioned previously, the user has the option of providing WellType or WellSummaryClass. This batch upload template contains a worksheet titled “Well Types & Classes” which provides the list of acceptable choices for these two fields. This slide shows a screenshot of that worksheet. The first column shows the acceptable WellType codes, while the last column shows the acceptable WellSummaryClass codes. The other columns show helpful descriptions and information that may help programs design queries.

If a user submits data with WellType fields entered, the application will convert the data to the well classes found in Summary Inventory Well Class when the application calculates the summary well inventory. If the user submits data in only the WellSummaryClass field, the application will not need to convert the data prior to calculating the summary inventory.

Available Batch Upload Templates



We have now completed our introduction to each of the four batch upload templates that have been distributed.