

	Sample_Material	Sample_Transport_Medium	Sample_Receipt_Date
Input Type	Text Field	Text Field	Date Field
Definition	Material on which the testing was performed. If multiple samples are taken from the same host, they must be entered as separate records.	Medium in which the sample is transported from the field to the lab	Date on which the field sample was received in the laboratory
Format	Text Maximum length: 30 characters	Text Maximum length: 30 characters	DD-Mon-YYYY DD-Mon-YY Mon-YYYY Mon-YY YYYY YY Maximum length: 11 characters
Value List	AIR BAL BLO CCF CCO CCT CLO FEC LLF LUN NAL NAS NTS ORP OTH- OTT PLS RCS SER SLU SOI SPU TFB TFT TRS WAT U	ETH GUA OTH- SER VTM U	Date U
Curration	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.	1. Leading 0 in DD is optional. 2. Month must match the first three letters of the month. Month is NOT case-sensitive. 3. Years may have two or four digits. 4. Use U (Unknown) if date is not known.
Examples	BLO	VTM, or OTH-PBS Glycerol	3-Mar-2011, 03-Mar-2011, 03-MAR-2011, Mar-2011, 3-Mar-11, 2011, 11, or U
Notes	AIR = Air BAL = Bronchoalveolar lavage BLO = Blood CCF = Combined cloacal and fecal CCO = Combined cloacal and oral-pharyngeal CCT = Combined cloacal and tracheal CLO = Cloacal FEC = Feces LLF = Lung lavage fluid LUN = Lungs NAL = Nasal lavage NAS = Nasal swab NTS = Combined nasal throat swab ORP = Oral-pharyngeal OTH- = Other, append free text to describe OTT = Other tissue PLS = Plasma RCS = Rectal swab SER = Serum SLU = Slurry SOI = Soil SPU = Sputum TFB = Tissue from brain TFT = Tissue from trachea TRS = Tracheal swab WAT = Water U = Unknown	ETH = Ethanol GUA = Guanidine OTH- = Other, append free text to describe SER = Serum VTM = Viral transport medium U = Unknown	At least one date must be provided for Sample_Receipt_Date or Collection_Date.
Dependent Fields			Collection_Date
Validation	Field value should be one of valid values as in list. NOTE: User can enter other value by prefixing 'OTH-'	Field value should be one of valid values as in list. NOTE: User can enter other value by prefixing 'OTH-'	Validate date format
Message Code	Error_1_INVALID_VALUE	Error_1_INVALID_VALUE	Error_67_INVALID_DATE_WITH_U
Validation	Validate field length	Validate field length	Date cannot be future date
Message Code	Error_75_INVALID_FIELD_LENGTH_OTH	Error_75_INVALID_FIELD_LENGTH_OTH	Error_68_INVALID_FUTURE_DATE
Validation			Collection_Date must be before Sample_Receipt_Date.
Message Code			Error_61_INVALID_DATE_ORDER
Validation			At least one date must be entered for receipt or collection date. Fields cannot both be blank.
Message Code			Error_118_DATE_MISSING
Validation			
Message Code			
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Message Code			

	Strain Name
Input Type	Text Field
Definition	The WHO or ICTV strain name of the virus that was isolated from the sample
Format	<p>Influenza A virus: Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation (Subtype)</p> <p>Influenza B, C, or D virus: Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation</p> <p>SARS-CoV-2 and other viruses: Virus Name/Host of Origin/Geographical Origin/Strain Number/Year of Isolation</p> <p>Maximum length: 150 characters</p>
Value List	Text U NA
Curator	<p>For influenza viruses, strain names most follow WHO naming convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. The antigenic type (e.g., A, B, C, D) 2. The host of origin (e.g., swine, equine, chicken. For human-origin viruses, no host of origin designation is given.) 3. Geographical origin (e.g., Denver, Taiwan) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2009, 1934) 6. For influenza A viruses, the hemagglutinin and neuraminidase antigen description in parentheses (e.g., (H1N1), (H3N2)) <p>For SARS-CoV-2 viruses, strain names most follow ICTV naming convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. Virus name (e.g., SARS-CoV-2) 2. The host of origin (e.g., human. Human-origin viruses must include the origin designation.) 3. Country of geographical origin as a three-letter code from the DPCC's Country Codes list (e.g., USA, MEX, CAN) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2019, 2020) <p>For all other viruses, please use the following convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. Virus name (e.g., MERS-CoV, Bat-CoV, etc.) 2. The host of origin (e.g., human, bat, camel. Human-origin viruses must include the origin designation.) 3. Geographical origin, either regional locality or country (e.g., Denver, Taiwan) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2019, 2020)
Examples	<p>For influenza:</p> <p>A/Hong Kong/1/1968 (H3N2), A/chicken/Fujian/4/2002 (H3N6), A/chicken/Fujian/4/2002 (HxNx), A/chicken/Fujian/4/2002 (mixed), A/swine/Iowa/233-56/2011 (H3N2), A/duck/Alberta/35/1976 (H1N1), B/Hong Kong/432/2014, C/Texas/19876/2011, or D/swine/Oklahoma/1334/2011</p> <p>For SARS-CoV-2:</p> <p>SARS-CoV-2/human/USA/NY-PV08486/2020</p> <p>For other viruses:</p> <p>PHEV-CoV/swine/USA/15TOSU25049/2015</p>
Notes	<p>WHO Reference for influenza viruses: http://www.cdc.gov/flu/about/viruses/types.htm ICTV Reference for SARS-CoV-2 viruses: https://pubmed.ncbi.nlm.nih.gov/32123347</p> <p>(HxNx) can be used in cases where a partial subtype has been determined (e.g., H5Nx, HxN2).</p> <p>If there are mixed subtypes contained within a sample use A/chicken/Fujian/4/2002 (mixed) for Strain_Name and enter additional subtype information in the Comments field.</p>
Dependent Fields	
Validation	Validate field length
Message Code	Error_70_INVALID_FIELD_LENGTH
Validation	Geographical origin element of strain name must be alphanumeric, underscore, dash, period, or single quote: a-z, A-Z, 0-9, -, ., ' , ...
Message Code	Error_138_INVALID_LOCATION_STRAIN_TEXT
Validation	Strain number element of strain name must be alphanumeric, underscore, dash, or period: a-z, A-Z, 0-9, -, . , ...
Message Code	Error_139_INVALID_STRAIN_NUMBER_STRAIN_TEXT
Validation	Year of isolation element of strain name must be 4-digit year.
Message Code	Error_110_INVALID_STRAIN_YEAR
Validation	If strain is influenza A, subtype must be present as text between parentheses.
Message Code	Error_112_INVALID_STRAIN_SUBTYPE
Validation	Brackets cannot be present if strain does not have rg- prefix.
Message Code	Error_119_INVALID_STRAIN_BRACKETS
Validation	If included, the strain must have a matched pair of opening and closing brackets or parentheses.
Message Code	Error_158_INVALID_STRAIN_OPEN_BRACKETS
Validation	Brackets cannot be present if strain does not have rg- prefix.
Message Code	Error_159_INVALID_NUMBER_OF_STRAIN_ELEMENTS

	Host_Species	Host_Common_Name	Host_Identifier	Host_ID_Type	Host_Capture_Status
Input Type	Text Field	Text Field	Text Field	Text Field	Text Field
Definition	Full scientific name of host genus and species, without abbreviations, as listed in the DPCC Species Dictionary	The English common name given to a particular species as listed in the DPCC Species Dictionary	An identifier assigned to the host by the collector	The type or format and agency assigning the host identifier	The capture status of the host animal the sample was drawn from
Format	Text Maximum length: 100 characters	Text Maximum length: 100 characters	Text Allowed characters include alphanumeric, hyphen, and underscore: a-z, A-Z, 0-9, -, _ Maximum length: 50 characters	Text Maximum length: 50 characters	Text Maximum length: 30 characters
Value List	DPCC Species Dictionary ENV U	DPCC Species Dictionary U	Text U	Text U	ABT ACT FRM HUN MRK OBK OTH- PET SEH ZOO U
Curation	If the entry is not ENV or U, the host species name is validated against the DPCC Species Dictionary.	The entry must be a text string or U. If the entry is not U, the host common name is validated against the DPCC Species Dictionary.	The entry must be a text string or U.	The entry must be a text string or U.	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps. If OTH- is selected, optionally append details.
Examples	<i>Sus scrofa</i> , or <i>Anser albifrons</i>	wild boar, or greater white-fronted goose	F001	Patuxent BBL leg band, Moscow banding center leg band, Web tag, UAF hunter ID, or UAF unique name	FRM, or OTH-restaurant
Notes	Please reference the DPCC Species Dictionary for allowed values. Use ENV(ironment) for samples taken from the environment (e.g., a water sample or feces picked up from the beach) when the source species is not known. If genus is known but species is unknown, then use the genus followed by 'sp.' (for example domestic duck would be reported as 'Anas sp.'). If both the genus and species are unknown, then use the scientific family name, without abbreviation (e.g., Charadriidae). Enter U for all other cases.	Please reference the DPCC Species Dictionary for allowed values. Use U if host common name is unknown or if the value entered under Host_Species is ENV or U.	If multiple samples are collected from a host, then all must be linked to the same Host_Identifier. If band/tag number is part or all of the Host_Identifier, please indicate the banding agency in Host_ID_Type.	See http://www.pwrc.usgs.gov/BBL/homepage/aboutaux.cfm for additional types of markers and http://www.pwrc.usgs.gov/BBL/homepage/link.cfm for information on international banding schemes.	ABT = Abattoir ACT = Active surveillance (e.g., trap); sampling not initiated by an outbreak FRM = Farm sample HUN = Opportunistically sampled (e.g., hunter-killed or killed in order to take sample) MRK = Market sample OBK = Sample collected in response to outbreak (sick or dying birds) OTH- = Other; append free text to describe PET = Sample obtained from a pet SEH = Semi-enclosed housing ZOO = Sample obtained from a zoo U = Unknown
Dependent Fields	Host_Common_Name, Host_Age	Host_Species, Host_Age	Host_ID_Type		
Validation	Validate against DPCC Species Dictionary	Validate against DPCC Species Dictionary	Validate field length	Validate field length	Field value should be one of valid values as in list. NOTE: User can enter other value by prefixing 'OTH-'
Message Code	Error_1_INVALID_VALUE	Error_1_INVALID_VALUE	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH	Error_1_INVALID_VALUE
Validation					Validate field length
Message Code					Error_75_INVALID_FIELD_LENGTH_OTH
Validation					
Message Code					
Validation					
Message Code					
Validation					
Message Code					
Validation					
Message Code					
Validation					
Message Code					
Validation					
Message Code					

	Host_Health	Host_Natural_State	Host_Habitat	Host_Sex	Host_Age	Collector_Name
Input Type	Text Field	Text Field	Text Field	Text Field	Text Field	Text Field
Definition	The health of the animal at the time of capture	Classification of the animal's domestication status	Description of the animal's habitat	Gender of host animal from which the sample was taken	Age of animal from which sample was taken	The name of person who collected the sample
Format	Text Maximum length: 3 characters	Text Maximum length: 30 characters	Text Maximum length: 30 characters	Text Maximum length: 1 character	Text Maximum length: 3 characters	FirstName LastName FirstName MI. LastName Maximum length: 100 characters
Value List	DED HLT SIC U	CPW DMF DOM OTH- WLD U	FRF FRI MAR MIG OTH- RES SEH U	M F U	ADL JUV PUP SAD WNL U	Text U
Curation	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps. If Host_Natural_State is WLD, then Host_Habitat must be MIG/RES/U/OTH-text. If Host_Natural_State is DOM, then Host_Habitat must be FRF/FRI/SEH/MAR/U/OTH-text. If Host_Natural_State is U, then Host_Habitat should be U. If Host_Natural_State is OTH-text, then Host_Habitat should be Other and provided as OTH-text.	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps. For Avian species, Host_Age must be one of the following values: ADL = Adult (After hatch year) JUV = Juvenile (Hatch year) U = Unknown/undetermined For Non-Human Mammalian species, Host_Age must be one of the following values: ADL = Adult JUV = Juvenile PUP = Pup SAD = Subadult WNL = Weaning U = Unknown/undetermined	None
Examples	HLT	WLD	FRF	M	WNL	Indiana Jones, John M. Henry, or U
Notes	DED = Dead HLT = Healthy SIC = Sick U = Unknown	CPW = Captive-Wild: captive wild animals such as wild birds at markets or tigers at zoos DMF = Domestic feral: domestic animal which is feral, such as feral pigs DOM = Domestic: indisputably domestic, such as back-yard chickens or pigs on pig farms OTH- = Other: append free text to describe. Those that cannot be readily placed into WLD or DOM, such as captive exotics WLD = Wild; indisputably wild, such as swans in Mongolia or seal lions at a rehab center U = Unknown: natural state is unknown	FRF = Farm free-range FRI = Farm, indoor (e.g., brood hen or brood sow) MAR = Live market MIG = Migratory: having no fixed, year-round residence OTH- = Other: append free text to describe RES = Resident: such as a flockherd that resides year-round in one location SEH = Semi-enclosed housing U = Unknown	M = Male F = Female U = Unknown	ADL = Adult (After hatch year) JUV = Juvenile (Hatch year) PUP = Pup SAD = Subadult WNL = Weaning U = Unknown/undetermined	For listing of multiple names, comma-separate the names maintaining the order of FirstName and LastName or FirstName MI. LastName. Enter U if name is unknown.
Dependent Fields		Host_Habitat	Host_Natural_State		Host_Species, Host_Common_Name	
Validation	Field value should be one of valid values as in list.	Field value should be one of valid values as in list. NOTE: User can enter other value by prefixing 'OTH-'	Field value should be one of valid values as in list. NOTE: User can enter other value by prefixing 'OTH-'	Field value should be one of valid values as in list.	Field value should be one of valid values as in list.	Validate field length
Message Code	Error_1_INVALID_VALUE	Error_1_INVALID_VALUE	Error_1_INVALID_VALUE	Error_1_INVALID_VALUE	Error_1_INVALID_VALUE	Error_70_INVALID_FIELD_LENGTH
Validation		Validate field length	Validate Host_Habitat when Host_Natural_State is WLD			Multiple names must be entered as comma-separated values in the order of FirstName LastName.
Message Code		Error_75_INVALID_FIELD_LENGTH_OTH	Error_71_HOST_NAT_STATE_WLD			Error_76_INVALID_NAME_LIST
Validation			Validate Host_Habitat when Host_Natural_State is DOM			
Message Code			Error_72_HOST_NAT_STATE_DOM			
Validation			Validate Host_Habitat when Host_Natural_State is U			
Message Code			Error_73_HOST_NAT_STATE_U			
Validation			Validate field length			
Message Code			Error_70_INVALID_FIELD_LENGTH			
Validation						
Message Code						
Validation						
Message Code						
Validation						
Message Code						

	Collection_Date	Collection_Country	Collection_State_Province	Collection_City	Collection_POI
Input Type	Date Field	Text Field	Text Field	Text Field	Text Field
Definition	Date on which the field sample was collected	Country in which the original sample was collected, as listed in the DPCC Country Codes list	Descriptor of sampling location that is one gradation finer than country	Descriptor of sampling location that is one gradation finer than State or Province	Description of local sampling environment, such as name of wild life refuge, name of zoo, name of retail market
Format	DD-Mon-YYYY DD-Mon-YY Mon-YYYY Mon-YY YYYY YY Maximum length: 11 characters	Text Maximum length: 60 characters	Text Maximum length: 50 characters	Text Maximum length: 50 characters	Text Maximum length: 100 characters
Value List	Date U	ISO 3166 Standard Country Code U	Text NA U	Text NA	Text NA
Curration	1. Leading 0 in DD is optional. 2. Month must match the first three letters of the month. Month is NOT case-sensitive. 3. Years may have two or four digits. 4. Use U (Unknown) if date is not known.	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.	None	None	None
Examples	3-Mar-2011, 03-Mar-2011, 03-MAR-2011, Mar-2011, 3-Mar-11, 2011, 11, or U	VNM, or USA	Tennessee	Nashville	Bass Lake Refuge, Memphis
Notes	At least one date must be provided for Sample_Receipt_Date or Collection_Date.	The ISO 3166 Standard for country codes may be found on the DPCC Portal.	The GeoNames geographical database can be used to identify specific states and provinces: http://www.geonames.org/	The GeoNames geographical database can be used to identify specific cities: http://www.geonames.org/	The GeoNames geographical database can be used to identify specific points-of-interest: http://www.geonames.org/
Dependent Fields	Sample_Receipt_Date				
Validation	Validate date format	Field value should be a valid ISO three-letter country code or U	Validate field length	Validate field length	Validate field length
Message Code	Error_67_INVALID_DATE_WITH_U	Error_1_INVALID_VALUE	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH
Validation	Date cannot be future date				
Message Code	Error_68_INVALID_FUTURE_DATE				
Validation	Collection_Date must be before Sample_Receipt_Date.				
Message Code	Error_61_INVALID_DATE_ORDER				
Validation	At least one date must be entered for receipt or collection date. Fields cannot both be blank.				
Message Code	Error_118_DATE_MISSING				
Validation					
Message Code					
Validation					
Message Code					
Validation					
Message Code					
Validation					
Message Code					

