

## Overview of SDS/FSM release 1.2 Flora and Fauna Entity Sets

Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
Botany	Botany General	azonal habitat boundary	A graphic representation of an azonal habitat	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easting, northing latitude, an longitudinal location.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id zonal_hab_d azonal_hab_d ectotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing uom_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments

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		ecotone_habitat_boundary	A graphic representation of an ecotone habitat.	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easting, northing latitude, and longitudinal location.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id zonal_hab_d azonal_hab_d ecotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing oum_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments

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		plant geographic range boundary	A graphic representation of a plant geographic range	bot_range	This table contains data about the range of a particular botanical species. Included are the range_id, type and classification, the range area, and perimeter, and the particular plant genus and species.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id range_type_d range_class_d range_id genus species range_area range_perimeter project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		plant home range boundary	A graphic representation of a plant home range	bot_range	This table contains data about the range of a particular botanical species. Included are the range_id, type and classification, the range area, and perimeter, and the particular plant genus and species.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer

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						data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id range_type_d range_class_d range_id genus species range_area range_perimeter project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		plant population area	A graphic representation of a plant population area	bot_plant_populate	This table contains data about the plant population of a particular area. Included are the area and transect id, the plant genus and species, the plant abundance, dominance, dispersion, and percent vegetation cover.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d

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						facility_id building_num_d observation_id location_id pop_area_id transect_id genus species abundance_d dominance_d dispersion_d pct_cover project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		study area boundary	A graphic representation of a botany study area	bot_study_area	This table contains data about an area of vegetation being studied. It includes the area and boundary if, the dimensions, and the easting, northing, longitude and latitude locations, radius, and elevation.	datalink mapid data_source_d data_creator dtaa_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id study_area_erim uom_perim_d transect_id easting northing uom_en_d

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						longitude latitude uom_rad_el_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		vegetation area boundary	A graphic representaton of a vegetation area.	bot_vegetation	This table contains data about vegetation in general. Data includes identification of the vegetation. If it is about trees, it includes maximum, minimum, average crown and stem diameters, and heights, and common and Latin tree names. Also the common and Latin names for the shrubs, grasses, and forbs. Erosion factors and ecotype are also included. Also, dimension of the area, date last cut, and biomass information is included.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id land_use_type_d vegetation_id max_crown_diam min_crown_diam mean_crown_diam uom_crown_d max_stem_diam min_stem_diam uom_stem_d mean_stem_diam

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						uom_space_d
						max_height
						min_height
						mean-height
						um_height_d
						technician_name
						land_use_type_d
						treatment
						soils_erosion_d
						wind_erosion_grp
						pct_clay
						erosion_k_factor
						erosion_t_factor
						soil_erosion_rate
						uom_erosion_d
						veget_biome_d
						veget_type_d
						no_of_dead_trees
						pct_dead_compos
						transect_id
						primary_tree_id
						tree_common_name_d
						tree_latin_name_d
						primary_shrub_sp
						shrub_commn_name_d
						shrub_latin_name_d
						primary_forb_sp
						forb_common_name_d
						forb_latin_name_d
						primary_grass_sp
						grass_commn_name_d
						grass_latin_name_d
						plant_comm_name
						veget_class_d
						ecotype
						vegetation_area
						uom_area_d
						vegetation_perim
						uom_perim_d
						biomass_per_area
						uom_biomass_d
						plant_dom_class_d
						date_last_cut
						grid_value
						uom_grid_d
						sample_ind_d
						area_value
						uom_area_d
						project_name_num
						ground_photo
						ground_photo_date
						aerial_photo

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						<a href="#">aerial_photo_date</a> <a href="#">remote_image</a> <a href="#">remote_image_date</a> <a href="#">comments</a>
		vegetation sample site	a point graphic representing the symbology of a vegetation sample site	bot_vegetat_sample	This table contains data about a vegetation samapling location. Included are sampling and analysis id, date, and method, and technicians name. Tree information includes maximum, minimum, and average heights, and stem and crown diameters, and closures, and spacing. Also, erosion factors, sample weights, 1,2, and 3 area compositions, dominant and successive trees, grasses, shrubs, and forbs, dead vegetation, ecotype, and easting, northing, latitude, and longitude location.	<a href="#">datalink</a> <a href="#">mapid</a> <a href="#">data_source_id</a> <a href="#">data_creator</a> <a href="#">data_create_date</a> <a href="#">data_modify_date</a> <a href="#">data_maintainer</a> <a href="#">data_history</a> <a href="#">data_type_d</a> <a href="#">data_reliability_d</a> <a href="#">data_entry_meth_d</a> <a href="#">disposition_d</a> <a href="#">condition_d</a> <a href="#">acquired_date</a> <a href="#">installation_date</a> <a href="#">last_inspect_date</a> <a href="#">owner_name</a> <a href="#">owner_status_d</a> <a href="#">facility_id</a> <a href="#">building_num_d</a> <a href="#">observation_id</a> <a href="#">location_id</a> <a href="#">sample_id</a> <a href="#">sampling_date</a> <a href="#">sample_method_d</a> <a href="#">analysis_date</a> <a href="#">analysis_method_d</a> <a href="#">soil_id</a> <a href="#">land_use_id</a> <a href="#">vegetation_id</a> <a href="#">stand_id</a> <a href="#">location_id_d</a> <a href="#">sample_date</a> <a href="#">sample_time</a> <a href="#">uom_time_d</a> <a href="#">technicianPname</a> <a href="#">plant_dom_class_d</a>

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						land_use_type_d
						sample_plot_size
						uom_area_d
						sample_height
						uom_shgt_d
						tree_lay1_mn_hgt
						tree_lay2_mn_hgt
						tree_max_height
						tree_min_height
						tree_mean_height
						uom_thgt_d
						tree_lay1_mn_stm
						tree_lay2_mn_stm
						tree_stem_max_dia
						tree_stem_min_dia
						tree_stem_mean_dia
						uom_sdiam_d
						tree_lay1_mn_cwn
						tree_lay2_mn_cwn
						tree_crwn_max_dia
						tree_crwn_min_dia
						tree_crwn_mean_dia
						uom_cdiam_d
						tree_stem_spacing
						uom_stemsp_d
						pct_Crown_closure
						treatment
						soils_erosion_d
						wind_erosion_grp
						pct_clay
						erosion_k_factor
						erosion_t_factor
						soil_erosion_rate
						uom_erosion_d
						sample_wght_green
						sample_wght_dry
						uom_erosion_d
						biomass_per_acre
						uom_biomass_d
						veget_type_d
						veget_biome_d
						primary_tree_d
						pct_1_area_compos
						secondary_tree_d
						pct_2_area_compos
						tertiary_tree_d
						pct_3_area_compos
						tree_latin_name_d
						dominant_grass_sp
						dominant_forb_sp
						dominant_shrub_sp
						dominant_tree_sp

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						success_grass_sp success_form_sp success_shrub_sp success_tree_sp no_of_dead_trees pct_dead_compos endangered_spp_d ecotype site_elevation uom_elev_d location_id_d uom_en_d uom_ll_d easting mnorthing uom_en_d longitude latitude uom_ii_d registry_d classification_d wetland_id transect_id project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		zonal habitat boundary	A graphic representation of a zonal habitat	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easting, northing latitude, and longitudinal location.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id zonal_hab_d azonal_hab_d ectotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing oum_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
	Botany Cover	shrub single	A point graphic representing the symbology of a single shrub	bot_shrub	This table contains data about a specific shrub. It includes the shrub and vegetation id, date of study, common and Latin names, the stem and crown diameters, height, number of wildlife nests, and the shrub from, and its water usage.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date instlla last_inspect_date owner_name owner_status_d facility_id building_num_d

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						observation_id location_id date_planted shrub_id vegetation_id date_planted common_name_d latin_name_d stem_diameter uom_crown_d height uom_height_d no_wildlife_nests shrub_form_d water_use_d plant_zone_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		shrubs mass boundary	A graphic representation of a shrub mass	bot_vegetation	This table contains data about vegetation in general. Data includes identification of the vegetation. If it is about trees, it includes maximum, minimum, average crown and stem diameters, and heights, and common and Latin tree names. Also the common and Latin names for the shrubs, grasses, and forbs. Erosion factors and ecotype are also included. Also, dimension of the area, date last cut, and biomass information is included.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id

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						building_num_d
						observation_id
						location_id
						land_use_type_d
						vegetation_id
						max_crown_diam
						min_crown_diam
						mean_crown_diam
						uom_crown_d
						max_stem_diam
						min_stem_diam
						uom_stem_d
						mean_stem_diam
						uom_space_d
						max_height
						min_height
						mean-height
						um_height_d
						technician_name
						land_use_type_d
						treatment
						soils_erosion_d
						wind_erosion_grp
						pct_clay
						erosion_k_factor
						erosion_t_factor
						soil_erosion_rate
						uom_erosion_d
						veget_biome_d
						veget_type_d
						no_of_dead_trees
						pct_dead_compos
						transect_id
						primary_tree_id
						tree_common_name_d
						tree_latin_name_d
						primary_shrub_sp
						shrub_commn_name_d
						shrub_latin_name_d
						primary_forb_sp
						forb_common_name_d
						forb_latin_name_d
						primary_grass_sp
						grass_commn_name_d
						grass_latin_name_d
						plant_commn_name
						veget_class_d
						ecotype
						vegetation_area
						uom_area_d
						vegetation_perim
						uom_perim_d

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						biomass_per_area uom_biomass_d plant_dom_class_d date_last_cut grid_value uom_grid_d sample_ind_d area_value uom_area_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
	Botany Wetland	wetland_boundary	A graphic representation of a wetlands.	bot_natural_wetlnd		datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id wetland_id wetland_use_id vegetation_id soil_id water_body_name wetland_type_d trophic_type_d success_state_d dom_vege_type_d land_use_type_d registry_d classification_d

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						management_agency assigned_wtld_name regulation_statu managemnet_type nwi_wetland_code nwi_system_type nwi_subsystem_type nwi_class_type nwi_subclass_type nwi_water_regime nwi_watr_chem_type nwi_soil_type nwi_spec_mod_type restrictions weland_area uom_area_d wetland_perim uom_perim_d grid_value uom_grid_d easting northing uom_en_d lonitude latitude uom_ll_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
	Botany Forest Management	forest sample site	A point graphic representing the symbology of a forest sample	bot_vegetat_sample	This table contains data about a vegetation samapling location. Included are sampling and analysis id, date, and method, and technicians name. Tree information includes maximum, minimum, and average heights, and stem and crown diameters, and closures, and spacing. Also, erosion factors, sample weights, 1,2, and 3 area compositions, dominant and successive trees, grasses, shrubs, and forbs, dead vegetation, ecotype, and easting, northing, latitude, and longitude location.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer

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						data_history
						data_type_d
						data_reliability_d
						data_entry_meth_d
						disposition_d
						condition_d
						acquired_date
						installation_date
						last_inspect_date
						owner_name
						owner_status_d
						facility_id
						building_num_d
						observation_id
						location_id
						sample_id
						sampling_date
						sample_method_d
						analysis_date
						analysis_method_d
						soil_id
						land_use_id
						vegetation_id
						stand_id
						location_id_d
						sample_date
						sample_time
						uom_time_d
						technicianPname
						plant_dom_class_d
						land_use_type_d
						sample_plot_size
						uom_area_d
						sample_height
						uom_shgt_d
						tree_lay1_mn_hgt
						tree_lay2_mn_hgt
						tree_max_height
						tree_min_height
						tree_mean_height
						uom_thgt_d
						tree_lay1_mn_stm
						tree_lay2_mn_stm
						tree_stem_max_dia
						tree_stem_min_dia
						tree_stem_mean_dia
						uom_sdiam_d
						tree_lay1_mn_cwn
						tree_lay2_mn_cwn
						tree_crwn_max_dia
						tree_crwn_min_dia
						tree_crwn_mean_dia

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						uom_cdiam_d
						tree_stem_spacing
						uom_stemsp_d
						pct_Crown_closure
						treatment
						soils_erosion_d
						wind_erosion_grp
						pct_clay
						erosion_k_factor
						erosion_t_factor
						soil_erosion_rate
						uom_erosion_d
						sample_wght_green
						sample_wght_dry
						uom_erosion_d
						biomass_per_acre
						uom_biomass_d
						veget_type_d
						veget_biome_d
						primary_tree_d
						pct_1_area_compos
						secondary_tree_d
						pct_2_area_compos
						tertiary_tree_d
						pct_3_area_compos
						tree_latin_name_d
						dominant_grass_sp
						dominant_forb_sp
						dominant_shrub_sp
						dominant_tree_sp
						success_grass_sp
						success_form_sp
						success_shrub_sp
						success_tree_sp
						no_of_dead_trees
						pct_dead_compos
						endangered_spp_d
						ecotype
						site_elevation
						uom_elev_d
						location_id_d
						uom_en_d
						uom_ll_d
						easting
						mnorthing
						uom_en_d
						longitude
						latitude
						uom_ii_d
						registry_d
						classification_d
						wetland_id

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						transect_id project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		forest compartment boundary	A graphic representation of a forest compartment.	bot_forest_stand	This table contains data about a forest stand. Included are stand, soil, wildlife habitat, and transect id, the date last cut, management information, permit and registry number, type of trees and other flora, ecosystem information and site index. Also, the tree maximum, minimum and average crown and stem diameters, growth rates, 1,2, and 3 stands compositions, primary shrubs, grasses, and forbs, stand dimensions, soil conditions and biomasses.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id date_last_cut stand_id wild_habitat_id soil_id transect_id permit_no technician_name management_agency management_type registry_d cclassification_d

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						land_use-type_d
						veget_class_d
						tree_dom_class_d
						volume_class_d
						site_index
						habitat_type
						ecosystem
						ecotype
						treatment
						max_crown_diam
						min_crown_diam
						mean_crown_diam
						uom_crown_d
						max_stem_diam
						min_stem_diam
						mean_stem_diam
						uom_stem_d
						mean_stem_space
						uom_space_d
						max_height
						1yr_1_mean_height
						1yr2_mean_height
						uom_height_d
						1yr_1_crown_clos
						1yr_2_crown_clos
						soils_erosion_d
						wind_erosion_grp
						pct_clay
						erosion_k_factor
						erosion_t_factor
						soil_erosion_rate
						uom_erosion_d
						primary_tree_sp
						pct_1_stand_compos
						secondary_tree_sp
						pct_2_stand_compos
						tertiary_tree_sp
						pct_3_stand_compos
						no_of_dead_trees
						pct_dead_compos
						primary_shrub_sp
						primary_forb_sp
						primary_grass_sp
						stand_area
						uom_area_d
						stand_erimeter
						uom_perim_d
						tract_number
						biomass_per_area
						uom_biomass_d
						timber_volume
						residual_volume

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						<u>uom_volume_d</u> <u>growth_rate</u> <u>uom_rate_d</u> <u>grid_value</u> <u>uom_grid_d</u> <u>project_name_num</u> <u>ground_photo</u> <u>ground_photo_date</u> <u>aerial_photo</u> <u>aerial_photo_date</u> <u>remote_image</u> <u>remote_image_date</u> <u>comments</u>
		forest plot boundary	A graphic representation of a forest plot	bot_forest_stand	This table contains data about a forest stand. Included are stand, soil, wildlife habitat, and transect id, the date last cut, management information, permit and registry number, type of trees and other flora, ecosystem information and site index. Also, the tree maximum, minimum and average crown and stem diameters, growth rates, 1,2, and 3 stands compositions, primary shrubs, grasses, and forbs, stand dimensions, soil conditions and biomasses.	<u>datalink</u> <u>mapid</u> <u>data_source_id</u> <u>data_creator</u> <u>data_create_date</u> <u>data_modify_date</u> <u>data_maintainer</u> <u>data_history</u> <u>data_type_d</u> <u>data_reliability_d</u> <u>data_entry_meth_d</u> <u>disposition_d</u> <u>condition_d</u> <u>acquired_date</u> <u>installation_date</u> <u>last_inspect_date</u> <u>owner_name</u> <u>owner_status_d</u> <u>facility_id</u> <u>building_num_d</u> <u>observation_id</u> <u>location_id</u> <u>date_last_cut</u> <u>stand_id</u> <u>wild_habitat_id</u> <u>soil_id</u> <u>transect_id</u> <u>permit_no</u> <u>technician_name</u>

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						management_agency
						management_type
						registry_d
						cclassification_d
						land_use-type_d
						veget_class_d
						tree_dom_class_d
						volume_class_d
						site_index
						habitat_type
						ecosystem
						ecotype
						treatment
						max_crown_diam
						min_crown_diam
						mean_crown_diam
						uom_crown_d
						max_stem_diam
						min_stem_diam
						mean_stem_diam
						uom_stem_d
						mean_stem_space
						uom_space_d
						max_height
						1yr_1_mean_height
						1yr2_mean_height
						uom_height_d
						1yr_1_crown_clos
						1yr_2_crown_clos
						soils_erosion_d
						wind_erosion_grp
						pct_clay
						erosion_k_factor
						erosion_t_factor
						soil_erosion_rate
						uom_erosion_d
						primary_tree_sp
						pct_1_stand_compos
						secondary_tree_sp
						pct_2_stand_compos
						tertiary_tree_sp
						pct_3_stand_compos
						no_of_dead_trees
						pct_dead_compos
						primary_shrub_sp
						primary_forb_sp
						primary_grass_sp
						stand_area
						uom_area_d
						stand_erimeter
						uom_perim_d
						tract_number

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						biomass_per_area uom_biomass_d timber_volume residual_volume uom_volume_d growth_rate uom_rate_d grid_value uom_grid_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		forest stand boundary	A graphic representation of a forest stand	bot_forest_stand	This table contains data about a forest stand. Included are stand, soil, wildlife habitat, and transect id, the date last cut, management information, permit and registry number, type of trees and other flora, ecosystem information and site index. Also, the tree maximum, minimum and average crown and stem diameters, growth rates, 1,2, and 3 stands compositions, primary shrubs, grasses, and forbs, stand dimensions, soil conditions and biomasses.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id date_last_cut stand_id wild_habitat_id

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						soil_id
						transect_id
						permit_no
						technician_name
						management_agency
						management_type
						registry_d
						cclassification_d
						land_use-type_d
						veget_class_d
						tree_dom_class_d
						volume_class_d
						site_index
						habitat_type
						ecosystem
						ecotype
						treatment
						max_crown_diam
						min_crown_diam
						mean_crown_diam
						uom_crown_d
						max_stem_diam
						min_stem_diam
						mean_stem_diam
						uom_stem_d
						mean_stem_space
						uom_space_d
						max_height
						1yr_1_mean_height
						1yr2_mean_height
						uom_height_d
						1yr_1_crown_clos
						1yr_2_crown_clos
						soils_erosion_d
						wind_erosion_grp
						pct_clay
						erosion_k_factor
						erosion_t_factor
						soil_erosion_rate
						uom_erosion_d
						primary_tree_sp
						pct_1_stand_compos
						secondary_tree_sp
						pct_2_stand_compos
						tertiary_tree_sp
						pct_3_stand_compos
						no_of_dead_trees
						pct_dead_compos
						primary_shrub_sp
						primary_forb_sp
						primary_grass_sp
						stand_area

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						uom_area_d stand_erimeter uom_perim_d tract_number biomass_per_area uom_biomass_d timber_volume residual_volume uom_volume_d growth_rate uom_rate_d grid_value uom_grid_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		tree coniferous	A point graphic representing the symbology of a coniferous tree	bot_tree	The table contains data about a specific tree. It includes the tree id, common and Latin names, stem and crown diameters, height, number of woldlife nests, type aves, mammals, and amphibians using the tree as a havitat, and the tree form and the tree water usage. Also information on surrounding vegetation.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id tree_id tree_latin_name_d

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						tree_common_name_d tree_stem_diam uom_stem_d tree_crown_diam uom_crwn_d tree_height uom_hght_d no_wildlife_nests wild_aves_clas_d wild_maml_clas_d wild_amph_clas_d vegetation_id tree_form_d water_use_d plant_zone_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		tree deciduous	A point graphic representing the symbology of a deciduous tree	bot_tree	The table contains data about a specific tree. It includes the tree id, common and Latin names, stem and crown diameters, height, number of woldlife nests, type aves, mammals, and amphibians using the tree as a havitat, and the tree form and the tree water usage. Also information on surrounding vegetation.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						tree_id tree_latin_name_d tree_common_name_d tree_stem_diam uom_stem_d tree_crown_diam uom_crwn_d tree_height uom_hght_d no_wildlife_nests wild_aves_clas_d wild_maml_clas_d wild_amph_clas_d vegetation_id tree_form_d water_use_d plant_zone_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		tree succulent	A point graphic representing the symbology of a succulent tree	bot_tree	The table contains data about a specific tree. It includes the tree id, common and Latin names, stem and crown diameters, height, number of woldlife nests, type aves, mammals, and amphibians using the tree as a havitat, and the tree form and the tree water usage. Also information on surrounding vegetation.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						observation_id location_id tree_id tree_latin_name_d tree_common_name_d tree_stem_diam uom_stem_d tree_crown_diam uom_crwn_d tree_height uom_hght_d no_wildlife_nests wild_aves_clas_d wild_mami_clas_d wild_amph_clas_d vegetation_id tree_form_d water_use_d plant_zone_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		tree single	A point graphic representing the symbology of a single tree	bot_tree	The table contains data about a specific tree. It includes the tree id, common and Latin names, stem and crown diameters, height, number of woldlife nests, type aves, mammals, and amphibians using the tree as a havitat, and the tree form and the tree water usage. Also information on surrounding vegetation.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						facility_id building_num_d observation_id location_id tree_id tree_latin_name_d tree_common_name_d tree_stem_diam uom_stem_d tree_crown_diam uom_crwn_d tree_height uom_hght_d no_wildlife_nests wild_aves_clas_d wild_maml_clas_d wild_amph_clas_d vegetation_id tree_form_d water_use_d plant_zone_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		tree mass boundary	A graphic representation of a tree mass.	bot_vegetation	This table contains data about vegetation in general. Data includes identification of the vegetation. If it is about trees, it includes maximum, minimum, average crown and stem diameters, and heights, and common and Latin tree names. Also the common and Latin names for the shrubs, grasses, and forbs. Erosion factors and ecotype are also included. Also, dimension of the area, date last cut, and biomass information is included.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						installation_date
						last_inspect_date
						owner_name
						owner_status_d
						facility_id
						building_num_d
						observation_id
						location_id
						land_use_type_d
						vegetation_id
						max_crown_diam
						min_crown_diam
						mean_crown_diam
						uom_crown_d
						max_stem_diam
						min_stem_diam
						uom_stem_d
						mean_stem_diam
						uom_space_d
						max_height
						min_height
						mean-height
						um_height_d
						technician_name
						land_use_type_d
						treatment
						soils_erosion_d
						wind_erosion_grp
						pct_clay
						erosion_k_factor
						erosion_t_factor
						soil_erosion_rate
						uom_erosion_d
						veget_biome_d
						veget_type_d
						no_of_dead_trees
						pct_dead_compos
						transect_id
						primary_tree_id
						tree_common_name_d
						tree_latin_name_d
						primary_shrub_sp
						shrub_commn_name_d
						shrub_latin_name_d
						primary_forb_sp
						forb_common_name_d
						forb_latin_name_d
						primary_grass_sp
						grass_commn_name_d
						grass_latin_name_d
						plant_comm_name
						veget_class_d

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						ecotype vegetation_area uom_area_d vegetation_perim uom_perim_d biomass_per_area uom_biomass_d plant_dom_class_d date_last_cut grid_value uom_grid_d sample_ind_d area_value uom_area_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
	Botany Restoration	replanting area boundary	A graphic representation of a replanting area	bot_planting	This table contains data about a particular vegetation planting. It includes the planting id and data of planting, the vegetation planted, the land id and use, the transect id and name of technician, the major species planted, number planted, number of trays, the seed weight and source, the dominance class. Also, the plant mortality and treatment, the erosion factors, and planting dimensions.	datalink mapid data_source_id data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						date_of_planting planting_id vegetation_id land_use_id land_use_type_d transect_id technician_name major_spp_planted no_spp_planted no_plants no_of_trays seed_weight uom_weight_d plant_dominance_d plant_mortality uom_mortal_d seed_source treatment soils_erosion_d wind_erosion_grp pct_clay erosion_k_factor erosion_t_factor soil_erosion_rate uom_erosion_d planting_area uom_area_d planting_perim uom_perim_d grid_value uom_grid_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
	Botany individual species	tree joshua	A point graphic representing the symbology of a joshua tree	bot_tree	The table contains data about a specific tree. It includes the tree id, common and Latin names, stem and crown diameters, height, number of woldlife nests, type aves, mammals, and amphibians using the tree as a havitat, and the tree form and the tree water usage. Also information on surrounding vegetation.	datalink mapid data_source_id data_creator data_create_date data_modify_date

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id tree_id tree_latin_name_d tree_common_name_d tree_stem_diam uom_stem_d tree_crown_diam uom_crwn_d tree_height uom_hght_d no_wildlife_nests wild_aves_clas_d wild_maml_clas_d wild_amph_clas_d vegetation_id tree_form_d water_use_d plant_zone_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		tree palm	A point graphic representing the symbology of a palm tree	bot_tree	The table contains data about a specific tree. It includes the tree id, common and Latin names, stem and crown diameters, height, number of woldlife nests, type aves, mammals, and amphibians using the tree as a havitat, and the tree form and the tree water usage. Also information on surrounding vegetation.	datalink mapid data_source_id data_creator

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id tree_id tree_latin_name_d tree_common_name_d tree_stem_diam uom_stem_d tree_crown_diam uom_crwn_d tree_height uom_hght_d no_wildlife_nests wild_aves_clas_d wild_maml_clas_d wild_amph_clas_d vegetation_id tree_form_d water_use_d plant_zone_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
	Botany Special Status	sensitive plant area boundary	A graphic representation of a sensitive plant area	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easin, northing latitude, an longitudinal location.	datalink mapid data_source_d

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id zonal_hab_d azonal_hab_d ectotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing uom_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		sensitive plant area site	A point graphic representing the symbology of a sensitive plant area site	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easting, northing latitude, and a longitudinal location.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer

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						data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id zonal_hab_d azonal_hab_d ectotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing uom_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		sensitive plant species	A point graphic representing the symbology of a sensitive plant species	bot_sensitiv_plant	This table contains data about a specific sensitive plant. Included are the location of the plant, with plant id, number, classification, number of flowers, seed sets leaves and leaf size. Also, the health of the plant, the distribution, and the genus and species of the plant.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id plant_id plant_number plant_dom_class_d num_flowers num_seed_sets num_leaves leaf_size_d health_d same_dist same_dir_d diff_dist diff_dir_d genus species project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		endangered plant area boundary	A graphic representation of an endangered plant area	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easin, northing latitude, an longitudinal location.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d

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						condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id zonal_hab_d azonal_hab_d ectotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing uom_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		endangered plant site	A point graphic representing the symbology of an endangered plant site	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easting, northing latitude, and longitudinal location.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id zonal_hab_d azonal_hab_d ectotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing uom_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		endangered plant species	A point graphic representing the symbology of an endangered plant species	bot_sensitiv_plant	This table contains data about a specific sensitive plant. Included are the location of the plant, with plant id, number, classification, number of flowers, seed sets leaves and leaf size. Also, the health of the plant, the distribution, and the genus and species of the plant.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						observation_id location_id transect_id plant_id plant_number plant_dom_class_d num_flowers num_seed_sets num_leaves leaf_size_d health_d same_dist same_dir_d diff_dist diff_dir_d genus species project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		threatened plant area boundary	A graphic representation of a threatened plant area	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easin, northing latitude, an longitudinal location.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id

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Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						location_id transect_id zonal_hab_d azonal_hab_d ectotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing uom_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		threatened plant site	A point graphic representing the symbology of a threatened plant site	bot_plant_habitat	This table contains data about a particular plant habitat. Included are the transect_id, the zonal and azonal habitat, an ecotonal boolean, the geomorphology and geological feature trend direction, the type soil, habitat dimension, and the easting, northing latitude, and longitudinal location.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id zonal_hab_d azonal_hab_d

## Overview of SDS/FMS release 1.2 Flora and Fauna Entity Sets

Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						ectotonal_flag_d geomorph_d trend_d soil_type_d hab_area hab_perimeter easting northing uom_en_d project_name_num ground_photo ground_photo_date aerial_photo aerial_photo_date remote_image remote_image_date comments
		threatened plant species	A point graphic representing the symbology of a threatened plant species	bot_sensitiv_plant	This table contains data about a specific sensitive plant. Included are the location of the plant, with plant id, number, classification, number of flowers, seed sets leaves and leaf size. Also, the health of the plant, the distribution, and the genus and species of the plant.	datalink mapid data_source_d data_creator data_create_date data_modify_date data_maintainer data_history data_type_d data_reliability_d data_entry_meth_d disposition_d condition_d acquired_date installation_date last_inspect_date owner_name owner_status_d facility_id building_num_d observation_id location_id transect_id plant_id plant_number plant_dom_class_d num_flowers num_seed_sets num_leaves

### Overview of SDS/FSM release 1.2 Flora and Fauna Entity Sets

Entity Set	Entity Class	Entity Type / Entity	Entity Type / Entity Definition	Attribute Table	Attribute Table Definition	Attributes
						leaf_size_d
						health_d
						same_dist
						same_dir_d
						diff_dist
						diff_dir_d
						genus
						species
						project_name_num
						ground_photo
						ground_photo_date
						aerial_photo
						aerial_photo_date
						remote_image
						remote_image_date
						comments