

**STATE OF OHIO (DAS)**CLASSIFICATION  
SPECIFICATION**CLASSIFICATION SERIES:**

Ecological Analyst

**SERIES NO.:**

8345

**MAJOR AGENCIES:**

Natural Resources only

**EFFECTIVE DATE:**

05/06/2012

**SERIES PURPOSE:**

The purpose of the ecological analyst occupation is to conduct ecological monitoring & research projects in natural areas of scenic rivers and invasive plants ecosystems in forested areas, assists with invasive species control (manual/chemical), to collect field specimen & to update & analyze computer botanical data.

At the lower level, incumbents perform field surveys or prepare ecological information for computer entry & analysis.

At the higher levels, incumbents lead or supervise lower-level ecological analysts in research, monitoring or data systems projects.

**CLASS TITLE**

Ecological Analyst 1

**CLASS NUMBER**

83451

**PAY RANGE**

28

**EFFECTIVE**

05/06/2012

**CLASS CONCEPT:**

The full performance level class works under general supervision & requires considerable knowledge of biological sciences or natural resources in order to perform field surveys of ecological specimen in natural areas scenic rivers & in state, private & urban forests, assists with invasive species control (manual/chemical), or to analyze botanical information for entry into computer system.

**CLASS TITLE**

Ecological Analyst 2

**CLASS NUMBER**

83452

**PAY RANGE**

30

**EFFECTIVE**

05/06/2012

**CLASS CONCEPT:**

The advanced level class works under direction & requires thorough knowledge of biological sciences or natural resources in order to lead team of lower-level ecological analysts or volunteers in conducting & monitoring research projects for natural areas of scenic rivers, & in state, private & urban forests, assists with invasive species control (manual/chemical)

**CLASS TITLE**

Ecological Analyst Supervisor

**CLASS NUMBER**

83455

**PAY RANGE**

11

**EFFECTIVE**

05/06/2012

**CLASS CONCEPT:**

The supervisory level class works under general direction & requires thorough knowledge of biological sciences or natural resources in order to supervise lower-level ecological analysts in conducting & monitoring research projects or in coordinating & monitoring Ohio botanical data system activities.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Ecological Analyst 1	83451	13	05/06/2012	28

**JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)**

Performs field surveys & site investigations to inventory significant ecological data (e.g., collects & identifies specimens & ecological associations; maps occurrences; documents findings), or oversees scenic river inventory program in assigned region (e.g., conducts & coordinates inventories & studies for possible scenic river designation; collects baseline ecological data), or prepares ecological information for entry into computerized & manual data systems (e.g., evaluates information for consistency, readability & locational accuracy; plots information on topographic maps and invasive species ecosystems in forested areas).

Analyzes botanical data to determine plant locations, significant communities & species data for classification, acquisition & management considerations; analyzes & interprets soil maps, topographic maps, aerial photographs & geological maps; prepares & compiles information for proposed natural areas & scenic rivers protection & acquisition projects; writes project descriptions; prepares grant applications, lease agreements & contracts; plans & conducts river protection projects (e.g., bank stabilization, erosion control, stream water quality monitoring, litter pick-up) & performs environmental impact reviews; adds, deletes & updates records in manual & computer files; revises topographic maps & managed natural area information & summarizes information on rare species, plant communities & other inventory categories; participates in control burn program.

Writes scientific reports & articles for publication in scientific journals; prepares reports of research findings; provides technical assistance to landowners regarding land protection, dedication & preservation of significant natural area & scenic river lands, and recommendations on invasive species control (manual/chemical) in ecosystems in forested areas.

Performs variety of public relations activities (e.g., makes public presentations, slide talks, represents division at state fair).

**MAJOR WORKER CHARACTERISTICS:**

Knowledge of agency policies & procedures regarding acquisition & management of natural areas\*; biological science (e.g., botany, zoology, ecology, forestry) or natural resources; cartography\*; safety practices involved in field surveys\*. Skill in use of computer terminal\*; field sampling or monitoring equipment\*. Ability to interpret variety of technical & scientific material; write technical reports & articles; gather, collate & classify information about data, people or things; prepare & deliver speeches before general public.

(\*)Developed after employment.

**MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:**

Completion of undergraduate core program in biological science (e.g., botany, zoology, ecology, forestry) or natural resources.

-Or 24 mos. exp. in ecological position.

-Or equivalent of Minimum Class Qualifications for Employment noted above.

**TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:**

In the Division of Forestry, must pass S131-190 within the first year of employment. Must successfully complete basic firefighter/introduction to fire behavior course (i.e., S-130/S-190) within first year of employment pursuant to national interagency incident management system (i.e., wildland & prescribed fire qualification system guide), within probationary period must successfully pass Pesticide Licensing Category 4A (Forestry).

**UNUSUAL WORKING CONDITIONS:**

May be exposed to inclement or adverse weather conditions; fire, intense heat mud, water, poisonous plants & smoke (e.g., from control burn areas), may be exposed to harmful chemicals and /or toxic gases; work may involve travel.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Ecological Analyst 2	83452	13	05/06/2012	30

**JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)**

Leads team of lower-level ecological analysts (i.e., provides work direction & training) in conducting ecological monitoring & research projects for natural areas, preserves &/or scenic rivers, determines priorities & work methodologies to be used by staff, works with local governments, state & planning agencies &/or landowners to develop regulations for protection of natural resources & recommends policy & procedural changes based on monitoring & field research activities;

OR

Oversees volunteer workers in study of ecological systems within Old Woman Creek Estuary, state & private forests monitors & participates in collection, classification & evaluation of baseline data, coordinates, regulates & reviews research projects sponsored by universities, various agencies & individuals & analyzes baseline data & research information to assist in development, management & utilization of estuary & nature preserve or monitors invasive plants & impact on forest ecosystems which would include invasive species control (manual/chemical) on state, private & urban forestlands.

Collects ecological data on rare invasive species in forested ecosystem (e.g. state, private & urban), species & communities; prepares maps, reports & scientific papers on program findings; prepares ecological management plans &/or coordinates their implementation; coordinates grant program &/or review of grant proposals; prepares response regarding environmental impact of projects by other governmental agencies; prepares access & research permits for chief's signature; coordinates, monitors &/or participates in control burn program.

Provides technical assistance & information to preserve managers, forest managers, private landowners in regards to state, private & urban forests, various governmental agencies & public & private organizations or cooperates with other agencies; coordinates activities among scenic river &/or natural areas councils, field coordinators & administrators; prepares & presents speeches & slide talks concerning agency problems & activities; conducts public meetings & educational seminars; drafts news releases.

**MAJOR WORKER CHARACTERISTICS:**

Knowledge of employee training & development\*; agency policies & procedures regarding acquisition & management of natural areas; biological science (e.g., botany, zoology, ecology, forestry) or natural resources; cartography; safety practices involved in field surveys. Skill in use of computer terminal\*; field sampling or monitoring equipment. Ability to interpret variety of technical & scientific material; write technical reports & articles; gather, collate & classify information about data, people or things; prepare & deliver speeches before general public.

(\*)Developed after employment.

**MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:**

Completion of graduate core program in biological science (e.g., botany, zoology, ecology, forestry) or natural resources. Or completion of undergraduate core program in biological science (e.g., botany, zoology, ecology) or natural resources; 6 mos. trg. or 6 mos. exp. in use of field sampling or monitoring equipment; must possess pesticide/herbicide license as identified in the approved position description.

-Or 6 mos. exp. as Ecological Analyst 1, 83451.

-Or equivalent of Minimum Class Qualifications for Employment noted above.

**TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:**

In the Division of Forestry, must pass S131-90 within the first year of employment. Must successfully complete basic firefighter/introduction to fire behavior course (i.e., S-130/S-190) within first year of employment pursuant to national interagency incident management system (i.e., wildland & prescribed fire qualification system guide),

**UNUSUAL WORKING CONDITIONS:**

May be exposed to inclement or adverse weather conditions; fire, intense heat, mud, water, poisonous plants & smoke (e.g., from control burn areas), may be exposed to harmful chemicals and/or toxic gases; work may involve travel.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Ecological Analyst Supervisor	83455	EX	05/06/2012	11

**JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)**

Supervises lower-level ecological analysts in assigned unit in conducting ecological monitoring & research projects or in coordinating & monitoring Ohio botanical data system activities, assigns & reviews work, trains staff, determines priorities & work methodologies to be used by staff, oversees staff activities in collection, inventory, identification & classification of zoological & botanical specimens significant to ecological communities, develops, implements &/or enforces policies & procedures related to field research & monitoring activities or related to data collection, update & analysis activities.

Analyzes & evaluates ecological data to assist in acquisition & management decisions for natural area & scenic river sites; inspects & evaluates existing & potential acquisition sites, evaluates effects of management practices on flora &/or fauna & submits reports & findings; maintains natural heritage inventory lists; develops, implements & coordinates data system procedures for management & retrieval of data from manual & computer files; writes programs for retrieval & analysis of natural heritage data; conducts field surveys & records population data.

Provides technical assistance & information to preserve managers, various governmental agencies & public & private organizations; coordinates activities among scenic river &/or natural areas councils, field coordinators & administrators; presents speeches & slide talks concerning agency problems & activities; conducts public meetings & educational seminars; drafts news releases.

**MAJOR WORKER CHARACTERISTICS:**

Knowledge of supervisory principles/techniques\*; employee training & development; agency policies & procedures regarding acquisition & management of natural areas; biological science (e.g., botany, zoology, ecology, forestry) or natural resources; cartography; safety practices involved in field surveys. Skill in use of computer terminal; field sampling or monitoring equipment. Ability to interpret variety of technical & scientific material; write technical reports & articles; gather, collate & classify information about data, people or things; prepare & deliver speeches before general public.

(\*)Developed after employment.

**MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:**

Completion of graduate core program in biological science (e.g., botany, zoology, ecology, forestry) or natural resources; 6 mos. trg. or 6 mos. exp. in use of field sampling or monitoring equipment; 6 mos. trg. or 6 mos. exp. in employee training & development; must possess pesticide/herbicide license as identifies in the approved position description.

-Or completion of undergraduate core program in biological science (e.g., botany, zoology, ecology, forestry) or natural resources; 12 mos. trg. or 12 mos. exp. in use of field sampling or monitoring equipment; 6 mos. trg. or 6 mos. exp. in employee training & development.

-Or 6 mos. exp. as Ecological Analyst 2, 83452.

-Or equivalent of Minimum Class Qualifications for Employment noted above.

**TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:**

In Division of Forestry, must successfully complete basic firefighter/introduction to fire behavior course (i.e., S-130/S-190) within first year of employment pursuant to national interagency incident management system (i.e., wildland & prescribed fire qualification system guide).

**UNUSUAL WORKING CONDITIONS:**

May be exposed to inclement or adverse weather conditions; fire, intense heat, intense heat mud, water, poisonous plants & smoke (e.g., from control burn areas), may be exposed to harmful chemicals and/or toxic gases; work may involve travel.