

STATE OF OHIO (DAS)
CLASSIFICATION
SPECIFICATION

CLASSIFICATION SERIES:

Fisheries Biology

SERIES NO.:

2227

MAJOR AGENCIES:

Natural Resources

EFFECTIVE DATE

SERIES PURPOSE

The purpose of the fisheries biology occupation is to evaluate & develop fish management programs & conduct research on aquatic life.

At the lower levels, incumbents evaluate existing programs, conduct research & plan federally funded research programs.

At the higher levels, incumbents supervise biologists & technical staff & coordinate statewide research operations.

CLASS TITLE

Fisheries Biologist 1

CLASS NUMBER:

22271

EFFECTIVE DATE

11/23/1997

CLASS CONCEPT:

The full performance level class works under general supervision & requires considerable knowledge of aquatic biology & fish management in order to evaluate existing programs & formulate proposals & research projects for fish management.

CLASS TITLE

Fisheries Biologist 2

CLASS NUMBER:

22272

EFFECTIVE DATE

11/23/1997

CLASS CONCEPT:

The advanced level class works under direction & requires thorough knowledge of aquatic biology & fish management in order to plan federally funded research studies & act as principle investigator of assigned research projects (i.e., research projects related to fish age & growth, population dynamics, recruitment, mortality, exploitation, stocking strategies & evaluation & effects of regulations).

CLASS TITLE

Fisheries Biology Supervisor

CLASS NUMBER:

22275

EFFECTIVE DATE

07/26/1998

CLASS CONCEPT:

The supervisory level class works under general direction & requires thorough knowledge of aquatic biology & fish management in order to supervise wildlife biologists & technical staff in research activities & acts as research project leader.

CLASS TITLE:

Fisheries Biology Program Administrator

CLASS NUMBER:

22276

EFFECTIVE DATE

07/26/1998

CLASS CONCEPT:

The supervisory level class works under general direction & requires thorough knowledge of aquatic biology & fish management in order to direct & coordinate statewide research operations & supervise subordinate supervisors.

CLASS TITLE Fisheries Biologist 1	CLASS NUMBER: 22271	BARGAINING UNIT: 13
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EFFECTIVE DATE

11/23/1997

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.)

Assists higher level biologist in evaluating existing fish management programs, formulating research study & management proposals, preparing budgets, writing monthly, annual & final reports on studies & ordering necessary supplies & equipment for studies.

Performs laboratory analysis of biological samples (e.g., analysis of fish scales to determine age & growth; microscopic examination of stomach contents to determine species food habits; identifies food items to lowest taxonomic level; identifies larval fishes); conducts limited chemical analysis of water samples; identifies zooplankton & tabulates data; prepares benthos samples for identification & enumeration; surveys fishermen to determine harvest & catch rates.

Conducts technical fish management activities (e.g., drafts bottom contour maps; calculates area, volume & depth of lakes & ponds; operates limnological & fish survey equipment to collect samples & gather data; compiles, analyzes & interprets data collected & finalizes into report form or makes recommendations concerning fishing operations; serves as principle operator of Lake Erie research vessel & conducts routine maintenance on vessel).

Presents technical findings at scientific meetings & speaks before sports & commercial fish organizations; answers questions concerning division policies & other inquiries; assists in equipment maintenance, repair & design.

MAJOR WORKER CHARACTERISTICS:

Knowledge of fish management practices; aquatic biology; aquatic zoology; research methods; technical writing. Skill in operation of laboratory & survey equipment. Ability to define problems, collect data, establish facts & draw valid conclusions; write complex reports & position papers; gather, collate & classify data; lift up to 50 lbs.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of graduate core program in fisheries science.

-Or completion of graduate core program in biological sciences to include 6 courses in fisheries science & to include 2 courses in statistics; (e.g., fisheries management, fishery techniques, limnology, ichthyology, fish biology, fish ecology, aquatic entomology).

-Or completion of undergraduate core program in fisheries science; 18 mos. trg. or 18 mos. exp. in management & coordination of fisheries projects.

-Or equivalent of Minimum Class qualifications For Employment noted above.

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

Not applicable.

UNUSUAL WORKING CONDITIONS:

Works outside; exposed to inclement weather; may be required to work evenings & weekends.

CLASS TITLE Fisheries Biologist 2	CLASS NUMBER: 22272	BARGAINING UNIT: 13
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EFFECTIVE DATE

11/23/1997

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.)

Evaluates existing fish management programs, plans & formulates research study & management proposals, prepares budgets, writes monthly, annual & final reports on projects, orders necessary supplies & equipment for projects & acts as principle investigator for assigned research projects (i.e., research projects related to fish age & growth, population dynamics, recruitment, mortality, exploitation, stocking strategies & evaluation & effects of regulations).

Oversees or conducts field research & surveys, conducts laboratory analysis of samples collected & analyzes & summarizes data (e.g., plankton & benthos sampling, limited chemical analysis of water, population & angler harvest estimates, analyzes stomach contents, collects fish scales for age & growth determinations; recommends stocking & other fish management practices based on research & survey results); develops & implements biological sampling techniques & schedules (e.g., trap & gill netting, fry towing, electro-fishing); monitors maintenance of fish survey, laboratory & research equipment.

Collates biological data using statistical methods; drafts or edits special unit reports & technical publications; presents technical findings at scientific & other meetings; serves as department representative to special committees or organizations in reference to fish management practices & research.

Prepares news releases & radio tapes; answers inquiries; orders supplies & equipment; attends planning meetings.

MAJOR WORKER CHARACTERISTICS:

Knowledge of fish management practices; aquatic biology; aquatic zoology; statistical analysis; research methods; budgeting*; technical writing; supervisory techniques/principles*; employee training & development*. Skill in operation of laboratory & survey equipment. Ability to define problems, collect data, establish facts & draw valid conclusions; write complex technical documents; gather, collate & classify data; lift 50 lbs.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of graduate core program in fisheries science; 6 mos. trg. or 6 mos. exp. in management & coordination of fisheries projects.

-Or completion of graduate core program in biological sciences to include 6 courses in fisheries science & 2 courses in statistics; (e.g., fisheries management, fishery techniques, limnology, ichthyology, fish biology, fish ecology, aquatic entomology), 6 mos. trg. or 6 mos. exp. in management & coordination of fisheries projects.

-Or completion of undergraduate core program in fisheries science; 24 mos. trg. or 24 mos. exp. in management & coordination of fisheries projects.

-24 mos. trg. or 24 mos. exp. as Fisheries Biologist 1, 22271.

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

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

Not applicable.

UNUSUAL WORKING CONDITIONS:

Works outside; exposed to inclement weather; may be required to work evenings & weekends.

CLASS TITLE Fisheries Biology Supervisor	CLASS NUMBER: 22275	BARGAINING UNIT: EX
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EFFECTIVE DATE

07/26/1998

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 wildlife biologists & technical staff & serves as research project leader, plans & directs fish management & research projects (e.g., prepares projects & objectives; prepares state & federal budgets; develops survey techniques & implements field surveys), maintains current evaluation of project findings, prepares monthly operational & special reports, reviews, edits & writes technical reports associated with project & participates in compilation of national, international & other technical reports.

Coordinates research study work with educational institutions, bordering states, &/or countries & federal government; serves on special work groups concerning area fisheries & maintains current evaluation of research findings.

Attends meetings to present research findings to wildlife council, general public & special interest groups, in absence of program administrator; conducts public relations; conducts laboratory analysis of aquatic samples (e.g., analyzes stomach contents of fish to correlate food available & consumed; identifies benthic organisms; makes age & growth determinations).

MAJOR WORKER CHARACTERISTICS:

Knowledge of fish management practices; aquatic biology; aquatic zoology; statistical analysis; research methods; technical writing; supervisory techniques/ principles; budgeting. Skill in operation of laboratory & survey equipment. Ability to define problems, collect data, establish facts & draw valid conclusions; write & edit complex, technical documents; gather, collate & classify data.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of graduate core program in fisheries science; 6 mos. exp. as research project leader (e.g., designs research project & objectives, prepares & oversees project budgets; develops & implements survey techniques; evaluates project results; writes reports of project findings).

-Or completion of undergraduate core program in previously cited areas; 18 mos. exp. in aquatic research of which at least 6 mos. was in project leader capacity. (e.g., designs research project & objectives, prepares & oversees project budgets; develops & implements survey techniques; evaluates project results; writes reports of project findings).

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

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

Not applicable.

UNUSUAL WORKING CONDITIONS:

Works outside; may be exposed to inclement weather.

CLASS TITLE Fisheries Biology Program Administrator	CLASS NUMBER: 22276	BARGAINING UNIT: EX
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EFFECTIVE DATE:

07/26/1998

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.)

Manages, plans, directs & coordinates statewide research operations & handles matters associated with federally funded research projects, plans & coordinates state-wide fish management programs (e.g., fish stocking, reservoir & stream monitoring, fish habitat development), administers fisheries projects & coordinates &/or prepares budget associated with assigned projects &/or programs & supervises aquatic biology supervisors.

Represents division at various meetings, in testifying at legislative & public hearings, in handling lawsuits, as member of special committees, in handling cooperative research projects with educational institutions & other agencies involved in field related to fisheries research, or in dealing with matters involving Ohio commercial fisheries; serves as technical consultant &/or administrator of contacts on Lake Erie modifications.

Maintains current evaluation of various fisheries research projects & prepares consensus of findings where economic, sociological or biological factors are involved; provides input to environmental impact statements associated with aquatic biota; formulates recommendations concerning management programs based on findings; coordinates research studies with universities & other state & federal agencies to allow for comprehensive evaluation of state waters; represents division on international & interstate commissions & boards.

Prepares & makes public presentations to sports & civic organizations or on radio & television; prepares articles for popular publications; responds to written & verbal requests; maintains current changes in field by attending professional meetings & workshops; conducts technical courses associated with fish ecology & taxonomy; prepares correspondence for superiors concerning programs, plans & policies.

MAJOR WORKER CHARACTERISTICS:

Knowledge of fish management practices; aquatic biology; aquatic zoology; research methods; technical writing; supervisory techniques/ principles; budgeting; program management*. Ability to deal with many variables & determine specific action; write & edit complex, technical documents; gather, collate & classify data.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of graduate core program in fisheries science; 12 mos. exp. in supervising research activities.

-Or completion of undergraduate core program in previously cited areas; 24 mos. exp. in supervising research activities.

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

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

Not applicable.

UNUSUAL WORKING CONDITIONS:

Not applicable.