Search terms and Boolean-style search strings

**Table 1** Search terms for each search category. The wildcard ‘\*’represents any character (or none), allowing for a greater number of term variations.

|  |  |  |
| --- | --- | --- |
| Population | Exposure | Outcome |
| River | Fish farm | Water quality |
| river\*  stream\*  fresh\*water  watercourse\*  waterway\*  tributar\* | fish\*farm\*  aqua\*culture  fish hatcher\*  piscicultur\*  fish produc\*  fish rear\*  trout farm\*  trout produc\*  trout hatcher\*  salmo\* farm\*  salmo\* produc\*  salmo\* hatcher\* | water quality  water health  water condition\*  pollut\*  water status  sediment\*  water chemistry  bio\*diversity  bio\* indicator\*  microbi\*  bacteri\*  microorganism\*  diatom\*  bio\*film\*  ecology  parasit\*  protozo\*  nitr\*  phosph\*  ammonia\*  \*invertebrate\* |

The search strings formatted for Web of Science Core Collection, Scopus, and JSTOR are below. JSTOR has a limited search capacity, therefore the search string is shorter and simpler.

Web of Science Core Collection:

TS=("river\*" OR "stream\*" OR “fresh\*water” OR “watercourse\*” OR “waterway\*” OR “tributar\*”) AND TS=(“water” NEAR/2 “quality” OR "water health" OR "water condition\*" OR “pollut\*” OR “water status” OR "sediment\*" OR "water chemistry" OR "bio\*diversity" OR "bio\* indicator\*" OR “microbi\*” OR “bacteri\*” OR “microorganism\*” OR “diatom\*” OR “bio\*film\*” OR “ecology” OR “parasit\*” OR “protozo\*” OR “nitr\*” OR “phosph\*” or “ammonia\*” or “\*invertebrate\*”) AND TS=("fish\*farm\*" OR “aqua\*culture” OR “fish hatcher\*” or “piscicultur\*” or "fish" NEAR/2 "produc\*" or “fish rear\*” or “trout farm\*” or "trout" NEAR/2 "produc\*" or “trout hatcher\*” or "salmo\* farm\*" or "salmo\*" NEAR/2 "produc\*" or “salmo\* hatcher\*”) NOT TS=(“lake\*” OR “reservoir\*” OR “lagoon\*” OR “pool\*”) NOT TS=(“prawn\*” OR “shrimp\*” OR “mollusc\*” OR "crab\*" OR “crustacea\*” OR "catfish\*" OR "tilapia\*" OR "carp\*" OR "\*bass\*" OR "perch\*") AND LA=(English)

Scopus:

( TITLE-ABS-KEY ( "river\*" OR "stream\*" OR "fresh\*water" OR "watercourse\*" OR "waterway\*" OR "tributar\*" ) ) AND ( TITLE-ABS-KEY ( “water” W/2 “quality” OR "water health" OR "water condition\*" OR "pollut\*" OR "water status" OR "sediment\*" OR "water chemistry" OR "bio\*diversity" OR "bio\* indicator\*" OR "microbi\*" OR "bacteri\*" OR "microorganism\*" OR "diatom\*" OR “bio\*film\*” OR “ecology” OR “parasit\*” OR “protozo\*” OR “nitr\*” OR “phosph\*” OR “ammonia\*” OR “\*invertebrate\*”) ) AND ( TITLE-ABS-KEY ( "fish\*farm\*" OR "aqua\*culture" OR "fish hatcher\*" OR "piscicultur\*" OR “fish” W/2 “produc\*” OR "fish rear\*" OR "trout farm\*" OR “trout” W/2 “produc\*” OR "trout hatcher\*" OR "salmo\* farm\*" OR “salmo\*” W/2 “produc\*” OR "salmo\* hatcher\*") ) AND NOT ( TITLE-ABS-KEY ( "lake\*" OR "reservoir\*" OR "lagoon\*" OR "pool\*" ) ) AND NOT ( TITLE-ABS-KEY ( "prawn\*" OR "shrimp\*" OR "mollusc\*" OR "crustacea\*" OR "crab\*" OR "catfish\*" OR "tilapia\*" OR "carp\*" OR "\*bass\*" OR "perch\*" ) ) AND LANGUAGE ( english )

JSTOR:

(((ab:""river\*" OR "fresh\*water" OR "stream\*"") AND (ab:""fish\*farm\*" OR "aquaculture" OR "salmo\* farm\*" OR "trout farm\*" OR (trout produc\*~2) OR (salmo\* produc\*~2) OR (fish produc\*~2)")) NOT (ab:""lake" OR "reservoir" OR "lagoon"")) AND la:(eng OR en)