



DISSOLVED OXYGEN



DISSOLVED OXYGEN:

IS THE AMOUNT OF OXYGEN DISSOLVED IN WATER

DEPENDENT ON:



TIME OF DAY



BAROMETRIC
PRESSURE



TEMPERATURE

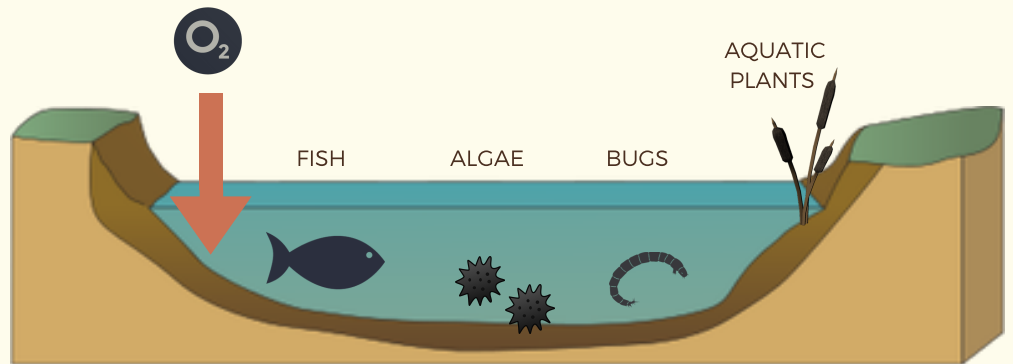
METRIC UNITS USED:

mg/L

THE METRIC SYSTEM IS USED BY SCIENTISTS ALL AROUND THE WORLD AND ALLOWS FOR EASY COMPARISON.

DISSOLVED OXYGEN:

LIVING ORGANISMS NEED OXYGEN



OXYGEN ENTERS A STREAM FROM THE ATMOSPHERE OR PHOTOSYNTHESIS OF PLANTS/ ALGAE WITHIN THE STREAM. OXYGEN IS IMPORTANT TO SUPPORT AQUATIC LIFE.

HOW WE MEASURE:



WE USE A SCIENTIFIC PIECE OF EQUIPMENT CALLED A MULTIPROBE, THAT DISPLAYS DISSOLVED OXYGEN IN MG/L AND AS PERCENT SATURATION ALONG WITH OTHER WATER RELATED DATA.

RANGE:

BASED ON
HISTORICAL DATA
FOR ARIZONA



DISSOLVED
OXYGEN

0 to 20 mg/L



PERCENT
SATURATION

0 to 150 %



TEMPERATURE



TEMPERATURE: IS THE MEASURE OF INTENSITY OF HEAT

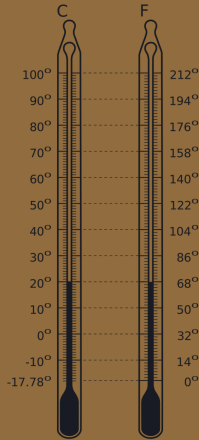
WE COLLECT:



AIR
TEMPERATURE



WATER
TEMPERATURE



METRIC UNITS USED:



THE METRIC SYSTEM IS USED BY SCIENTISTS ALL AROUND THE WORLD AND ALLOWS FOR EASY COMPARISON.

TEMPERATURE AFFECTS:



OXYGEN
IN WATER



METABOLIC
RATES OF AQUATIC
LIFE



RATE OF
PHOTOSYNTHESIS



AQUATIC
REPRODUCTION
CYCLES



WATERBORNE
DISEASES



RECREATIONAL
USE

HOW WE MEASURE:



WE USE A SCIENTIFIC PIECE OF EQUIPMENT CALLED A MULTIPROBE, THAT DISPLAYS AIR TEMPERATURE, WATER TEMPERATURE, AND OTHER WATER RELATED DATA.

RANGE:

BASED ON
HISTORICAL DATA
FOR ARIZONA



0 to 40 °C
AIR
TEMPERATURE



0 to 30 °C
WATER
TEMPERATURE



pH



pH:



IS THE MEASURE OF HYDROGEN IN WATER ON A LOGARITHMIC SCALE FROM 0 (ACIDIC) TO 14 (BASIC)

pH SCALE:



UNITS USED:

SU

STANDARD UNITS (ABBREVIATED AS SU) IS USED FOR pH DUE TO THE LOGARITHMIC SCALE

pH AFFECTS:



FISH

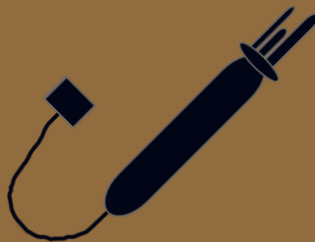


AQUATIC BUGS



AQUATIC PLANTS

HOW WE MEASURE:



WE USE A SCIENTIFIC PIECE OF EQUIPMENT CALLED A MULTIPROBE, THAT DISPLAYS pH, AND OTHER WATER RELATED DATA.

RANGE:

BASED ON HISTORICAL DATA FOR ARIZONA



1.53 to 9.7 SU