INCORPORATING THE HEMLOCK WOOLLY ADELGID

INTO HIGH SCHOOL ECOLOGY AND FIELD BOTANY CURRICULUM

ALANA ARCHANGELO

THE CHALLENGES

- HOW TO INCORPORATE NEW "CITIZEN SCIENCE" LONG TERM PROJECT INTO TWO ESTABLISHED CURRICULA SPANNING TWO SEMESTERS OF (MOSTLY)DIFFERENT STUDENTS
- HOW TO GET STUDENTS ENGAGED IN PROJECT

CONCERNS

ANOTHER ENVIRONMENTAL SCIENCE TEACHER BEGAN THE PROJECT THE YEAR BEFORE...

- IS SHE USING THE SAME TREES I WOULD?
- She was not continuing the project this year
- WOULD I BE EXPECTED TO OR BE ABLE TO CONTINUE THE PROJECT TO THE SAME EXTENT SHE HAD?
- Had to make the project match my strengths and not try to emulate someone who had different strengths
- CAN I FIND THE TREES SHE USED?
- There are two different plots marked on the campus.
 I was able to find most of the trees on one plot so that is the one I used

WHAT I DID SEMESTER ONE-GLOBAL ECOLOGY

- Students had to sample and analyze different Abiotic and Biotic components of three different sites: A field, deciduous edge, and hemlock forest. This was already a part of the curriculum.
- Students researched the value of hemlocks in our ecosystem.
- Viewed a power point on the HWA and why we should care about it
- Read Pest Alert article and answered questions about HWA infestation
- Visited one hemlock site and recorded crown health and seasonal growth



FORMATIVE: STUDENTS COMPLETED FIELD DATA CHARTS STUDENTS ANSWERED QUESTIONS ON THE **ARTICLES GIVEN ON HWA** SUMMATIVE: **QUIZZES-**TYPES OF SCIENTIFIC INVESTIGATION HOW TO IDENTIFY A HEMLOCK LIFE CYCLE OF HWA

WHAT I WILL DO IN FIELD BOTANY

- REVIEW CHARACTERISTICS OF HEMLOCKS This is already a part of the curriculum
- GIVE STUDENTS A PRETEST ON HWA
- VALUE OF HEMLOCK FORESTS
- VIEW HWA POWERPOINTS
- CHECK SAME TREES AS WE CHECKED FIRST SEMESTER FOR PRESENCE OF EGG SACS
- READ ARTICLES ON HWA
- GIVE POST TEST ON HWA