

VS Aquatic Animal Health (AAH) Program

- VS reformation
- Program priorities

VS AAH Program Mission

To protect and improve the health of U.S. farm raised aquatic animals in order to produce safe wholesome seafood, healthy recreational and display/ornamental animals, as well as protect the nation's aquatic animal natural resources.

Aquatic Animal Health (AAH) Program

- Who we are
- What we do



AAH Program Priorities

- NAAHP and CAHPS
- Response to emerging diseases
- Communication
- Education and outreach



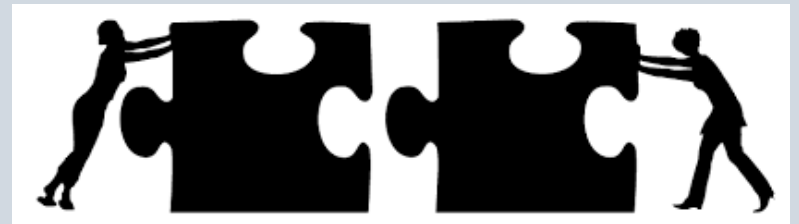
CAHPS



- Comprehensive health management planning
- Non-regulatory
- Developed with industry
- Science and risk based, responsive and scalable
- 5 Principles
 - Aquatic Animal Health Team
 - Risk evaluation
 - Surveillance
 - Investigation and reporting
 - Response and recovery

Why CAHPS?

- History of U.S. aquaculture
- Unrealized national plan
- State and federal authorities
- Varied health requirements and processes
- Growth of the industry
- Trade



	OIE	AFS Blue Book	State Regulations*
Lot or Farm level of inspection?	Farm	Farm and Lot	Lot treated like farm
Biosecurity following inspection?	Protected water supply, fish movements, other	No recommendation	Few address this
Which diseases to test?	OIE listed	No recommendation	OIE based lists, widespread serious diseases, VHS, ???
How many fish to test?	150+ reduce with history	Lot: at least 60 Farm: at least 60 from every lots (same age, species, water supply and broodstock)	Lot: 60 or 30 or 20 Farm: 60 per species or 150 to 170 per farm
Which fish to test?	All susceptible species per OIE manual or most susceptible species	Farm: all susceptible species (in BB), most susceptible species Lot: species shipped if susceptible	Farm: All susceptible, all species, species to be shipped Lot: Species to be shipped (if susceptible?)
How often? When?	Seasons when likely to be detected – twice a year	Farm: Once per year when water temps make detection most likely Lot: no guidance	Once per year typical, even for lot inspections No guidance on temps. VHS at 95 °F, no problem!
Who collects samples?	Accredited veterinarian	Accredited Veterinarian, state or federal official, FHS-Inspector, FHS-pathologist	Farmer >> FHS Inspector >veterinarian
Who conducts diagnostic assays?	Determined by CA	No recommendation	Few recommendations, confusion over APHIS approval
Which assay protocols to use?	OIE manual	Inspection section	None specified – BB, OIE or APHIS approved protocols
Certification required?	Competent authority (i.e., APHIS)	No recommendation	Testing labs, FHS Inspector, Veterinarian, Veterinarian with training, State official

Identifying the Right Problem

- Current burdens
 - Impact of regulations
- Where are we working the hardest?
- Where can we have the biggest impact?
- Where can we be smarter and have more meaning?
 - Surveillance and testing



Making CAHPS Work

- Veterinarians
- Data management
- Laboratory structure and approval
- Creating “Be-in”
- Implementation

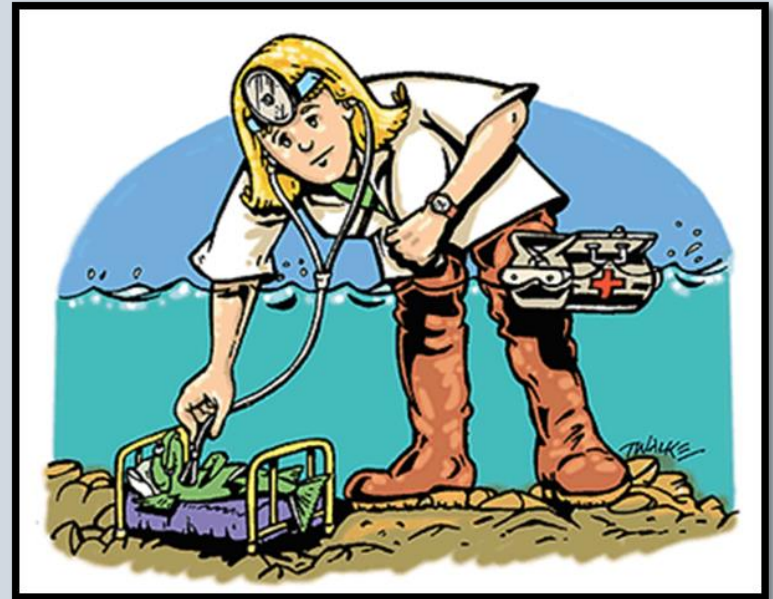


Veterinarians

- Too many vets and not enough producers?

Or,

- Too many producers and not enough vets?



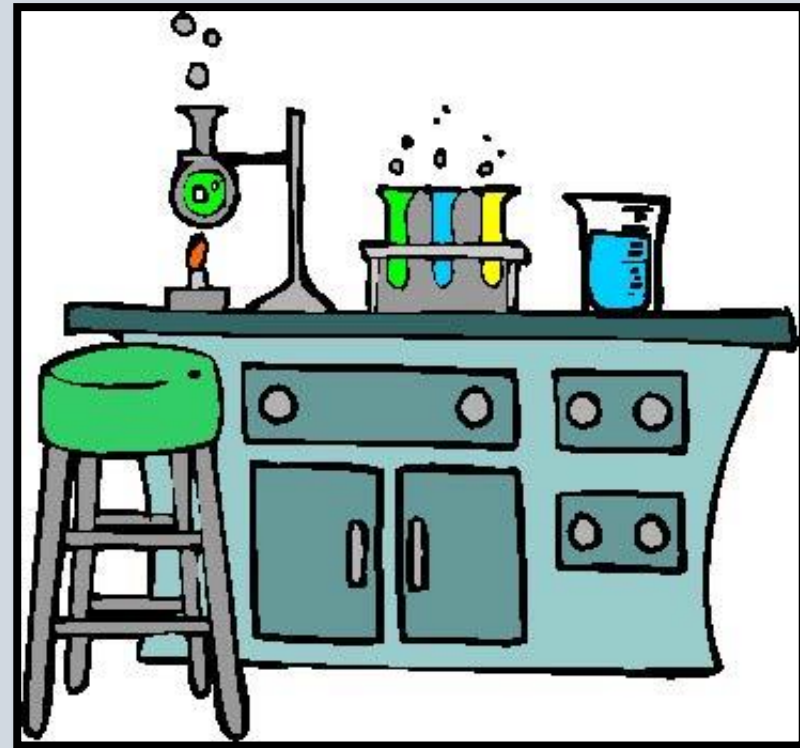
Data Dilemma

- What data do we need?
- Who holds the data from the program?
- Confidentiality and integrity
- Comparing and sharing



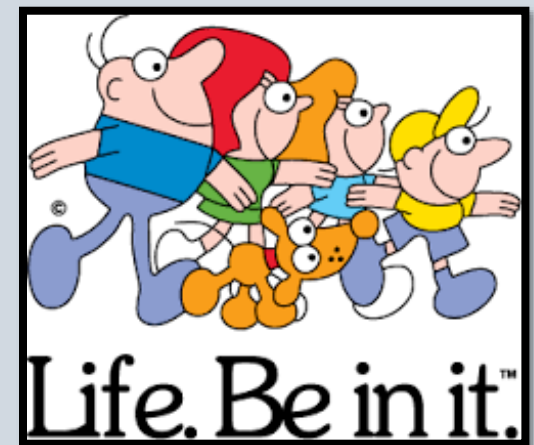
Laboratory Structure

- Assays and pathogens
- Proficiency
- Readiness
- Communication



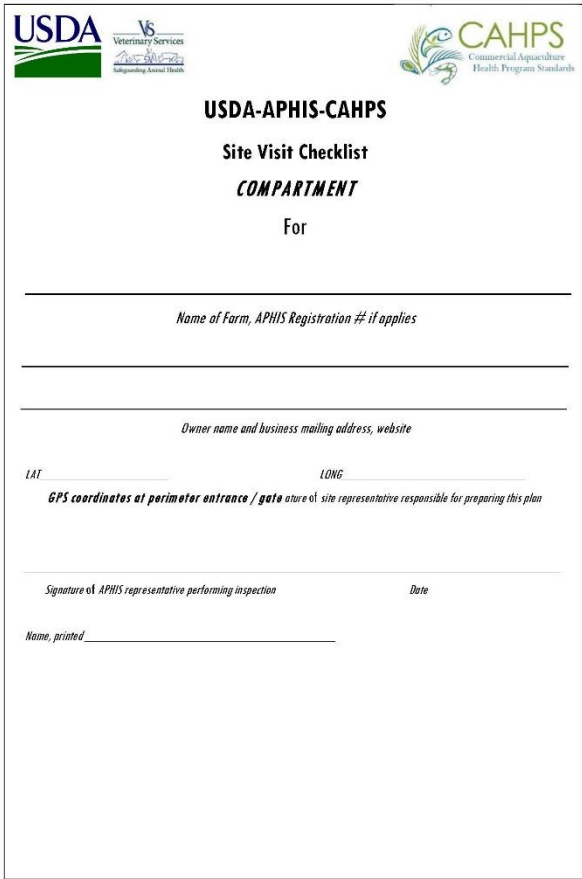
Creating Be-In

- Incentives
- Roles and responsibilities
- Problem solving collaboration
 - We can if...



Implementation

- Uniformity and consistency
- Non-regulatory
- Not funded and limited resources
- Recognition of program and participation
- Model other programs like NPIP



The form is titled "USDA-APHIS-CAHPS Site Visit Checklist" and is for a "COMPARTMENT". It includes fields for the farm name, owner information, GPS coordinates, and a signature line.

USDA Veterinary Services **CAHPS** Commercial Aquaculture Health Program Standards

USDA-APHIS-CAHPS
Site Visit Checklist
COMPARTMENT
For

Name of Farm, APHIS Registration # if applies

Owner name and business mailing address, website

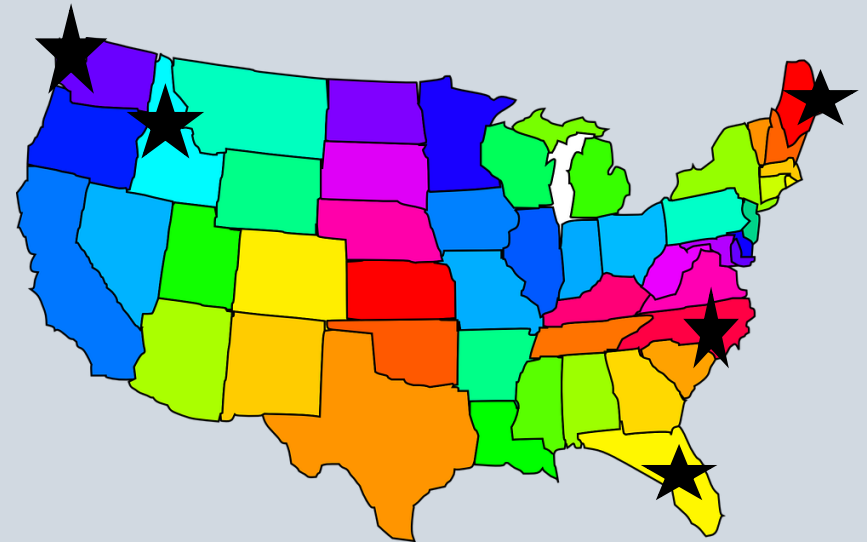
LAT _____ LONG _____
GPS coordinates at perimeter entrance / gate ature of site representative responsible for preparing this plan

Signature of APHIS representative performing inspection *Date*

Name, printed _____

CAHPS Proof of Concept Projects

- Proof of concept projects
 - WA, ME, NC, ID, FL
- Drafting template for CAHPS site specific health plan
- Master program in SCS CoreOne database
- CAHPS outreach



Other CAHPS Efforts

- NOAA NMFS
 - Gulf Aquaculture
- USDA NIFA
 - Rural veterinary medical training



What's Trending for VS AAHP

- Emerging diseases
 - Tilapia Lake Virus
 - Koi Herpesvirus
 - Ostreid herpesvirus -1
 - Others
 - Fp, Ah, Se,

- Emerging Issues
 - Testing methodologies
 - PCR
 - Pooling samples
 - Risk pathway gaps

- Partnerships
 - NAAHP
 - AVMA
 - States





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