

Chesapeake Bay Commission May 7, 2015

#### **Major Policy Publications**

- Oil Spill Policy (1989)
- Environmental Education (1990)
- Genetic Analysis of Shad (1991)
- Rec. Boat Pollution (1991)
- Ballast Water (1995)
- Abandoned and Derelict Boats (1999)
- Forests for the Bay (2000)
- Land Preservation (2001, 2010)
- Cost of a Clean Bay (2003)

- Cost-Effective Strategies (2004)
- Blue Crab (2002,2003,2004,2005)
- Farm Bills (2002, 2008, 2014)
- Congressional Agenda (2008)
- Biofuels (2007, 2008, 2010)
- Manure to Energy (2012)
- Nutrient Credit Trading (2012)
- Crediting Land Conservation (2013)
- Livestock Stream Exclusion (2015)



#### What is Livestock?

Hooved animals such as...





## Risk Posed by Water

#### **PONDS – MUDHOLES - POTHOLES**

- Standing water concentrates exposure
- Increases spread of diseases within a herd
- Exposes cattle to colonization of bacteria

#### FLOWING WATER - STREAMS

- Possibly dilutes exposure
- Compromises farm biosecurity
- Increases exposure to deliberate contamination

...Isn't it enough for you to drink
clear water for yourselves?
Must you also muddy the rest with your
feet?
Why must my flook out what you have

Why must my flock eat what you have trampled down and drink water you have fouled?

Ezekiel 34:18-19

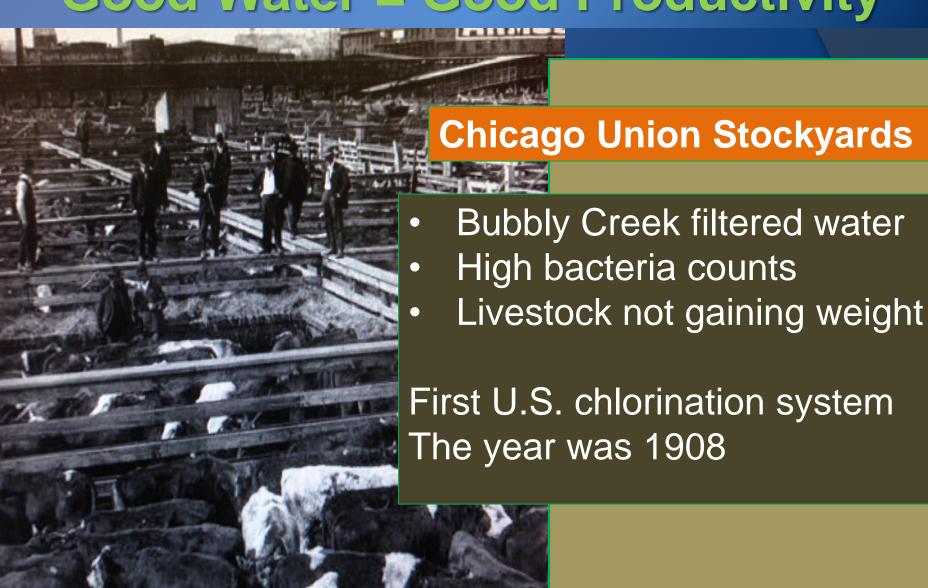
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Helen Aceto, PhD, VDM, Uni. Penn.

### Good Water = Good Productivity







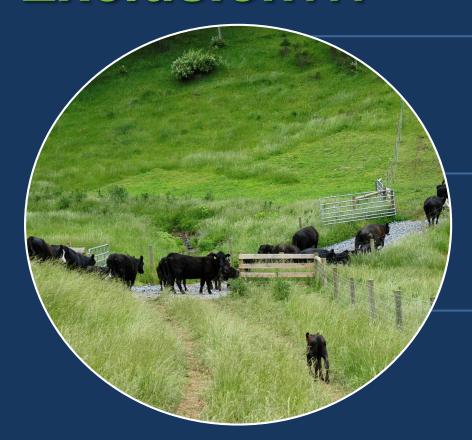


MAIS (PA)

Macroinvertebrate Aggregated Index for Streams

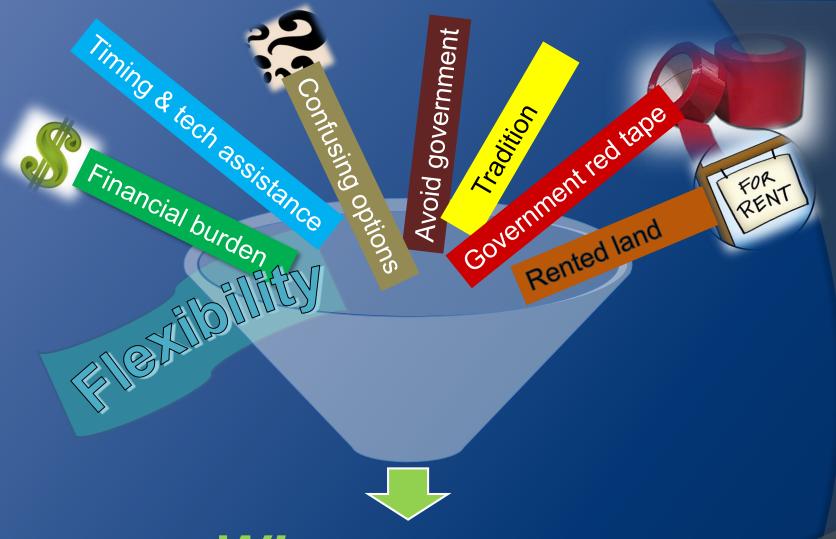
## What is Livestock Exclusion...











# Why are some producers hesitant?



	Nitrogen	Phosphoru	ent
Pennsylvania	3	ran	ce
Maryland		ssula	9
Virginia	= 1	14	24

Fencil	Nitrogen	Phosphorus	Sediment
Strea cess Control with Fencing (grass buffer)	13-46%	30-45%	40-60%
Alternative Watering Facility	5%	8%	10%

## **Leading Federal Programs**

#### Regulatory

- EPA-Clean Water Act CAFO Program
- EPA-Clean Water Act TMDL Program



#### **Incentive**

- USDA, FSA/NRCS
   Conservation Reserve Enhancement Program
- USDA, NRCS

   Environmental Quality Incentives Program

State	Mandates	Results
Maryland	Agricultural Nutrient Management Program	\$2,500 & >8 cattle; no fence required
	Critical Area Act	No fence required; min. 25' ungrazed buffer
Pennsylvania	Clean Streams Law	Forbids requiring pasture exclusion fence
	Manure Management Manual	Confinement area exclusion
Virginia	Concentrated Animal Feeding Operations	Only large operation confinement areas
	Agricultural Stewardship Act	Complaint driven

	Ag BMP Incentives			
State	CREP	State Cost- Share	Tax Credits	Low Interest Loans
Maryland				
Pennsylvania				
Virginia				

	Policy Opportunities			
State	CREP acres	State Cost- Share	Tax Credits	Low Interest Loans
Maryland	66,000 of 100,000	Favor exclusion fencing	Create tax credit program	
Pennsylvania	138,000 of 220,000	Dedicated funding & favor exclusion		Create Ioan program
Virginia	21,000 of 25,000	Fund 100% backlog		

#### Recommended Actions

#### State-level working group:

- 1. Match incentive program to needs
- 2. Increase resources for incentive programs
- 3. Explore conservation compliance concepts
- Address absentee landlord/tenant farmer issues
- 5. Repeal, modify stream fencing policies
- 6. Keep it simple

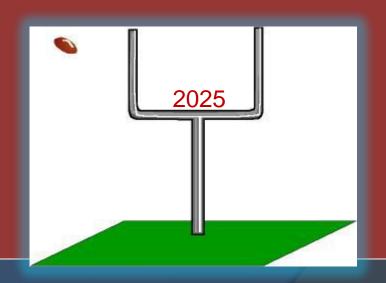
### Next Steps: Bay Program & Federal

Coordinate with NRCS & FSA on incentives

Fix Bay Program reporting & crediting by 2017

Clarify WIP reliance on federal programs

2019 Farm Bill needs justification package



## Healthy Livestock, Heathy Streams

Livestock do not belong in streams





