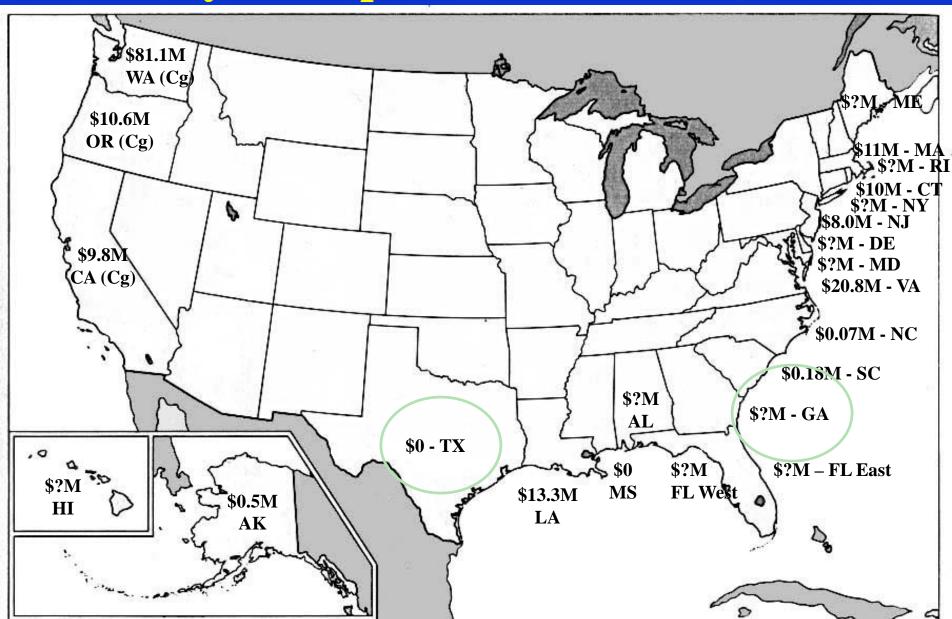
Identifying Potential User Conflicts and Solutions for Off-Bottom Oyster Culture in Texas

John Scarpa





USDA Oyster Aquaculture – 2013 (~\$152M)



Aquaculture is the fastest growing form of global food production. It accounts for about 40 percent of the seafood consumed by humans worldwide, and almost half of the seafood consumed by Americans.

Aquaculture Contacts

Texas Aquaculture Association P.O. Box 10564

College Station, Texas 77842 979-690-1635 Fax 979-690-1965 TAA@txnqua.net www.texasuquaculture.org

Texas Sea Grant College Program

Granvil Treeor, Aquaculture Specialist 2700 Earl Rodder Freeway, Suite 1800 College Station, Texas 77445 979-845-7527 Fux 979-845-7525 g-treeocofftamu.edu www.texas-ses-etanit.tamii.edu

Texas Agrilide Extension

Dr. Michael Masser
Dept. of Wildlife and Fisheries
102C Negle Hall
College Station, Taxas 77843-2258
979-845-7473 Fax 979-545-7103
mmasser@tarmu.edu

Texas Parks & Wildlide Departmen

Program Leader Inland Pitheries 4200 Smith School Road Austin, Texas 75744-3291 512-369-8037 fax 512-369-4656 joeck, gray@tpwd.state.cx.as www.towal.state.cx.us

Texas Department of Agriculture

Chris Drews
Coordinator
Weights and Measures, Eggs
and Aquaculture
P.O. Box 12847
Austin, Toxas 78711
512.463-7401
800 TELL TDA
christophers/brews/bths.state.cx.cs
www.rdu.state.tx.cs

Texas Commission on Environmental Quality

OAC 148)
P.O. Box 13057
Austin, Texas 78711
www.toog.state.tx.us

Wastewater Discharge Permits David Galindo

512-239-0951 dgalindo@tceq.state.tx.us

Aquiculture General Permit Yvonna Miramontos

512-239-6922 ymirmmon@rosq.state.tx.ais

Texas General Land Office

PO. Box 12873
Austin, Texas 75701-2873
500-998-4GLO
www.glo.state.rx.us

Coastal Leaving

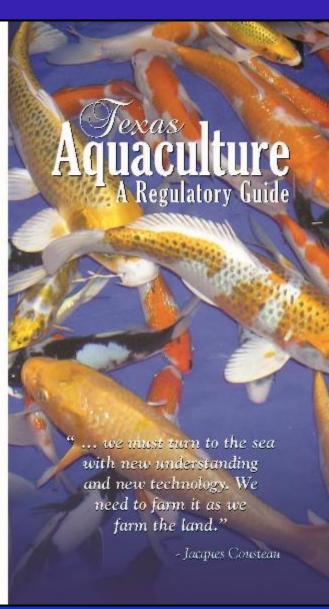
Tony Williams 512-463-5055 tony williams@glostate.tx.us

Coastal Management Program

Tannny Brooks 512-463-9212 tannny brooks@glo state tx.us

Coastal Grants, Education & Outreach

Sheri Land 512-463-5058 shert.land@glo.state.tx.us





Coastlines

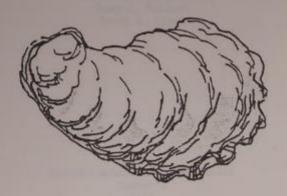
FL: 1350 miles (8436 tidal)

LA: 397 miles (7721 tidal)

TX: 367 miles (3359 tidal)

TEXAS OYSTER FISHERY MANAGEMENT PLAN

Fishery Management Plan Series Number 1



TEXAS PARKS & WILDLIFE DEPARTMENT 4200 SMITH SCHOOL ROAD AUSTIN, TEXAS 78744

1988

Public Season: 1 Nov – 30 April

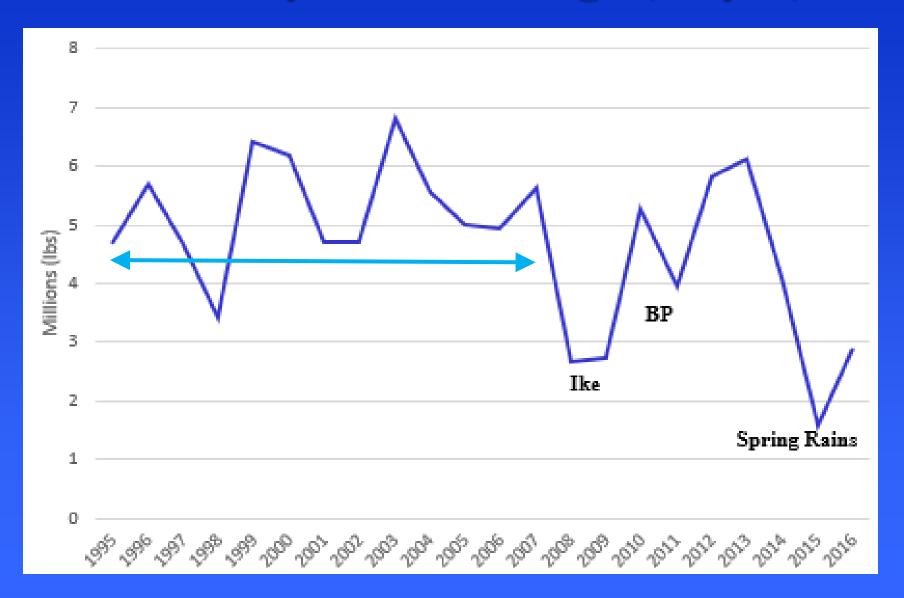
Size: 3 inches (H)

Devices: Hand, Tong or Dredge

Public Reefs

Private Leases (Galveston Bay)

Texas Oyster Landings (20 yrs)

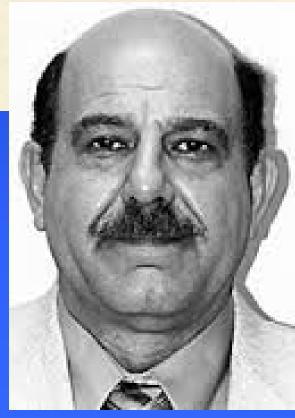


Journal of Shellfish Research, Vol. 11, No. 1, 149-156, 1992.

CULTCHLESS EASTERN OYSTER (CRASSOSTREA VIRGINICA (GMELIN 1791)) CULTURE ON THE TEXAS GULF COAST: A FEASIBILITY ANALYSIS AND COMPARISON TO TRADITIONAL OYSTER FISHING

MIRELLA MARTINEZ,¹ LEONARD DIMICHELE^{1,3} AND SAMMY M. RAY²

¹Department of Wildlife and Fisheries Sciences Texas A & M University College Station, Texas 77843 ²Department of Marine Biology Texas A & M University at Galveston Galveston, Texas 77553



Dr. Leonard DiMichele (2014)

TPWD Oyster Aquaculture Program Timeline (proposed) Mar 2017 **Jun/Jul 2016** Implementation Public Hearings **Feb/Mar 2016** Constituent meetings Commercial oyster - Other interests (CCA, **Nov 2015** SEA, Sailing/Boating, oil/gas,) Draft Plan **July 2015** CRAC components/options **Establishment of Oyster** completed Aquaculture Begin draft **Development and Spatial** proclamation (Ch. 58) **Planning Teams** revisions Begin plan development **Aug 2016** by reviewing programs from other coastal states Adoption **Preliminary meetings** with GLO and DSHS **May 2016 Commission Proposal** Aug/Sept 2015 Jan 2016

Brief legislators

Brief Commission

Brief OAW



Commonalties

(State Agencies, Non-Governmental Organizations, Commercial)

No group was opposed

Sustainability (e.g., siting, seagrass, genetics)

State Agency authority

Impediments

State agencies; authority

Support for increased costs (e.g., monitoring)

Spatial Planning (i.e., user conflict, sustainability)

User Conflicts



Adjustable long-line system, Grand Bay, AL (Auburn Univ.)



Floating trays of Choptank Oyster Co., Chesapeake Bay, VA (2013) (4 acres)







Survey (Pre- & Post- Presentation)

Pre-Presentation:

- What is your general opinion of the aquaculture industry? Pos, Neg, No opinion
- What is your opinion of bivalve (oyster, clam) aquaculture? Pos, Neg, No opinion

Post-Presentation:

- What is your general opinion of the aquaculture industry? Pos, Neg, No opinion
- What is your opinion of bivalve (oyster, clam) aquaculture? Pos, Neg, No opinion
- What impediments do you know of, or concerns that you have, with allowing off-bottom oyster culture in Texas?
- Do you have any solutions to the impediments / concerns you identified?

Positive Response to Question: General Opinion of Aquaculture and Bivalve Aquaculture

	Pre-Presentation	Post-Presentation	Change
1 – General Aqua (n=19/20)	57%	80%	+ 23
1 – Bivalve Aqua (n=20/19)	73%	84%	+9
2 – General Aqua (n=27/27)	81%	93%	+12
2 – Bivalve Aqua (n=29/27)	75%	89%	+14
3 – General Aqua (n=43/40)	42%	75%	+33
3 – Bivalve Aqua (n=43/40)	37%	80%	+43

Comments

Navigation restrictions;
Reduced access to areas;
Lack of public understanding of benefits;
"Industrial" visual impacts

Select barren areas (away from shoreline & popular fishing areas; Use high density farms; clearly mark, education program; more bottom culture to offset any loss of access; minimize visual impacts; start small

Comments

In my opinion, it is better to let mother nature take its course to produce oysters on its own.

Let the professionals handle what's happening, apparently it works in other part of the country. Need to follow the other states.

HB 1300

Thank You

Assistance from: William Balboa Rhonda Cummins

Questions?

