

RUSSELL ENGEL

ARIZONA GAME AND FISH DEPT
FISHERIES PROGRAM MANAGER



AQUATIC INVASIVE SPECIES

A SPECIES INTRODUCED INTO AN AREA WHERE IT WAS NOT NATIVE AND LIVES IN OR NEAR WATER

CAN ADVERSELY IMPACT

Native Ecosystem

Human Activity

Local Economy

Human Health

QUAGGA MUSSELS

2007 Lake Havasu



GIANT SALVINIA

1999 PV Drain



BANDED WATER SNAKE

2015 Mittry Lake Area



GIZZARD SHAD

2010 Lake Havasu



WATER HYACINTH & WATER LETTUCE

2016 Ferguson Lake



CRAYFISH

19??



BULLFROG

19??



APPLE SNAIL

2005 Yuma Division



ARMORED CATFISH

2006 Main Drain, Somerton



PACU

2011 Lake Havasu,
Gila Main, Somerton Drain



GRASS CARP

2015 Arizona Channel



SNAPPING TURTLE

2014 Imperial Dam



PEACOCK BASS

2010 Wellton Main Canal



SHARK

2010 Yuma Canal



CAIMAN

2001 Yuma Motel



MONITOR LIZARD

200? Imperial Dam Area



(Picture from internet)