

NMFRO FISH STOCKING/TRANSPLANT HACCP Plan

1. Product Description
2. Flow Diagram
3. Potential Hazards
4. Hazard Analysis Worksheet
5. HACCP Plan Form

1. Product Description

Firm Name:	New Mexico Fishery Resources Office
Firm Address:	2105 Osuna NE Albuquerque, NM 87113
Species of fish:	all
Cultured, wild harvested, or both:	all, including non-target fish species accidentally occurring in hatchery shipments
Harvest method:	dip net, electrofishing, seine, net
Method of distribution and storage:	fish transport truck either from hatchery (stocking) or from NMFRO (transplant)
Intended use and consumer:	recipients (primarily tribal) of FWS hatchery-reared or collected sport fish species

2. Flow Diagram

Step 1	Drive to stocking or fish transplant collection site
Step 2	Net and distribute fish from fish transport truck to receiving water or collect from donor site, transport, and transplant target species to receiving water
Step 3	Return to vehicle
Step 4	Either sample another location or return to office, store and clean gear/equipment
Step 5	
Step 6	
Step 7	
Step 8	
Step 9	
Step 10	
Step 11	
Step 12	

3. Potential Hazards

List aquatic species here that are found in hatchery water supply or local waters that could potentially hitchhike to receiving waters and cause ecological harm. These are called *Aquatic Nuisance Species* (ANS).

- a. **ANS Fish:** any fish species not native to NM drainage basins
- b. **ANS Other Vertebrates:** Includes bullfrog tadpoles,
- c. **ANS Invertebrates:** molluscs, crayfish, whirling disease
- d. **ANS Plants:** giant salvinia

4. Hazard Analysis Worksheet

(1) Harvest or Aquaculture Step	(2) Identify potential ANS hazards introduced or controlled at this step (1)	(3) Are any potential ANS hazards significant? (Yes/No)	(4) Justify your decisions for column 3.	(5) What preventive measures can be applied to prevent the significant hazards?	(6) Is this step a critical control point? (Yes/No)
2. Net and distribute fish from fish transport truck to receiving water or collect from donor site, transport, and transplant target species to receiving water	Fish	yes	There is a history of transport of non-target fish species in hatchery shipments	Prior to shipment from hatchery or donor site loads should be sorted and verified for absence of non-target species, on receiving end have FRO meet truck and visually inspect and remove any non-target species or reject hatchery shipment if numbers too high to prevent total removal prior to stocking	yes
	Other Vertebrates	yes	There is a history of transport of bullfrog tadpoles in hatchery shipments	Prior to shipment from hatchery or donor site loads should be sorted and verified for absence of tadpoles, on receiving end FRO meet truck and visually inspect	yes
	Invertebrate	yes	There is a history of transport of non-target invertebrate species in hatchery shipments	Prior to shipment from hatchery or donor site loads should be sorted and verified for absence of macroinvertebrates, on receiving end FRO meet truck and visually inspect	yes
	Plant	yes	Some plants aren't in all watersheds	Prior to shipment from hatchery or donor site loads should be sorted and verified for absence of plants, on receiving end FRO meet truck and visually inspect	yes

5. HACCP Plan Form

(1) Critical Control Point (CCP)	(2) Significant Hazard(s)	(3) Control Measures	Monitoring				(8) Corrective Actions(s)	(9) Records	(10) Verification
			(4) What	(5) How	(6) Frequency	(7) Who			
2. Net and distribute fish from fish transport truck to receiving water or collect from donor site, transport, and transplant target species to receiving water	fish, other verts, inverts, plants	0 - fish 0 - other verts 0 - crayfish 0 - live plants	shipment of fish and any other macro-life forms contained in shipments	visually and by hand sorting	for every shipment and transplant trip	Project Coordinator or delegated employee	remove non-target organisms if numbers are low enough to guarantee complete removal, if too high reject shipment and report to Regional Office Fisheries Program Supervisor	Each Project Coordinator will record the date that shipment checked and what, if any, non-target organisms were removed	Random dip net of load results in capture of only target species

Firm Name: NMFRO	Species of Fish: all
Firm Address: 2105 Osuna NE Albuquerque, NM 87113	Method of Storage and Distribution: FWS hatchery or FRO fish transport truck
Signature: Jim Brooks	Intended Use and Consumer: recipients (primarily tribal) of FWS hatchery-reared or collected sport fish species
Date: 05-31-02	