

# CHECKLIST

## Irrigation District Safety Survey

Date: \_\_\_\_\_ Location: \_\_\_\_\_

Person(s) Conducting the Survey: \_\_\_\_\_

Total Miles of Ditches: \_\_\_\_\_ Total Miles of Lined/Piped Ditches: \_\_\_\_\_

Total Number of Dams: \_\_\_\_\_ Total Number of Hydro Plants: \_\_\_\_\_

Lateral Ditch Safety		
Condition		Recommendation
Are irrigation ditches lined to prevent erosion and breaching in vulnerable areas? Are the linings inspected annually for damage?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are signs posted along irrigation ditches stating, "No Swimming" and at major discharge points stating "Danger"?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is access to equipment such as gates, structures or pumps limited to the public.	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Does the district have a ditch burning policy in place?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are irrigation ditches cleaned regularly to prevent blockage? (debris, plants, roots, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is access to irrigation ditches limited to the public?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are irrigation ditches checked regularly for defects that could lead to flooding?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
In locations where an open ditch transitions to pipe, do you have telemetry in place to monitor up and downstream water surface elevation? Are there alarms tied to both the water surface elevation and the differential?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Do ditch riders have life preservers/vests while working near water?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Do you have a signed flood back policy in place to prevent excess tail water on laterals and sub-laterals?	Yes <input type="checkbox"/> No <input type="checkbox"/>	

# CHECKLIST

Dam Safety		
Condition		Recommendation
Are dams inspected annually?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is rip-rap on dam faces kept in good condition?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are emergency spill procedures in place to prevent overtopping of dams?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are trees and brush removed from earthen dams and dikes?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are signs posted above and below dam warning of danger?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is debris cleared from around the dam regularly?	Yes <input type="checkbox"/> No <input type="checkbox"/>	

# CHECKLIST

General Irrigation District Safety		
Condition		Recommendation
Is access to pump stations and dams kept in good condition?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is a policy in place for keys used to access district facilities? (checked out, inventoried annually, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are site sensitive areas protected by fencing? (major discharges, dams, pump stations, fish screens, telemetry, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are security systems in place at site sensitive areas? (cameras, alarms, lights, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is automation such as telemetry inspected regularly and equipped with software security?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are pesticides and/or herbicides used? If yes, are employees trained on proper use and certified by the appropriate state agency?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Does the district have a hold harmless agreement with water users?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Does the district send out information to water users that states the water is for irrigation only and not safe for potable water purposes?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Does the district have the right to enter land user's property at any time to inspect and maintain ditches?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are policies, rules and regulations delivered and signed by each water user?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Do employees receive safety training?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is PPE provided to employees? (hearing protection, hard hats, eye protection, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are NPDES permits obtained before adding any herbicide from a point source that can lead to a navigable water way?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are employees trained on proper use of equipment prior to use?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is the general housekeeping in the shop good? (debris off the floor, equipment in good condition, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is the equipment in the shop guarded properly?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are abandoned assets from sites removed to prevent loss?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are 811 locates being done to protect district assets?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is there a water right transfer process and written procedures?	Yes <input type="checkbox"/> No <input type="checkbox"/>	

# CHECKLIST

Canal Safety		
Condition		Recommendation
Is access to all equipment limited? (pumps, gates, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are fish screens inspected at least quarterly?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are canals inspected in offseason for erosion and repair?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are measuring devices, gates, and structures inspected regularly for damage?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are pipelines drained and inspected after each water season?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are canals traveled daily to inspect for problems?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are canal banks, dams, debris racks, dikes, spillways, etc. kept clear of debris, trees, shrubs, moss?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are last-chance cables installed above drops, siphons, etc.?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are water diversions locked in place to prevent inadvertent flow?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Do you have a schedule to clean earthen canals with an excavator or a yearly rotation schedule?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Do you mow canals to prevent excessive vegetation and safe passage on canal roads?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
If no telemetry system is used are measurements taken daily on all canals and documented from the start of laterals to the tail end?	Yes <input type="checkbox"/> No <input type="checkbox"/>	

# CHECKLIST

Hydro Plant Safety		
Condition		Recommendation
Do you have a lockout tagout policy in place?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are power plants inspected at least annually?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are "Danger-High Voltage" signs posted at power plants, high electrical areas?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is there a protective barrier above dam keeping debris away from power plant?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are fire extinguishers in place and inspected monthly?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are guards in place and in good condition on turbines and other motors?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are transformers in good condition and preventative maintenance being done?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are battery back-ups working properly? Are battery cells at appropriate levels?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Have hydraulic levels been checked, accumulator pressures checked?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is PPE provided to employees? (hearing protection, hard hats, eye protection, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Do you provide arc flash protection gear?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Does the district have confined spaces in this area?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Does the district have the required confined space equipment?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are staff properly trained in confined space and conduct practice rescues annually?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is the hydro plant equipped with SCADA/telemetry and does it have alarming protocols?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Are all overhead cranes inspected per OR-OSHA and have staff been properly trained?	Yes <input type="checkbox"/> No <input type="checkbox"/>	