

**Washington Department of Fish and Wildlife
1996 Puyallup Hatchery Rack Electronic Detection Evaluation
and Survival of Standard Length vs 1.5 Length Coded Wire Tags**

Adults Sampled by Wand = 24,559
 # CWT's detected by Wands = 1,676
 # Adults Sampled by R-8 = 24,695
 # CWT's detected by R-8 = 1,584
 # CWT's missed by Wand = 3 = 0.1%
 # CWT's missed by R-8 = 0 = 0.0%
 # False positives by R-8 = 219 = 0.8%
 # False positives by Wand = 46 = 0.1%

63 43 33 External Marks: Adipose Clip, Photonic (Adipose Eye, Anal fin, Caudal fin)
 25 Recoveries with no visible Photonic marks using UV light box

detected by Wand = 15
 # detected by R-8 = 10
 # missed by Wand = 0

63 50 05 External Mark: None CWT Type: Standard Length CWT
 843 Recoveries = 4.1% survival to rack mean forklength = 45.8 cm SD = 5.2 cm

*Revised
 drive*

detected by Wand = 433
 # detected by R-8 = 408
 # missed by Wand = 1

63 58 25 External Mark: None CWT Type: 1.5 Length CWT
 826 Recoveries = 4.1% survival to rack mean forklength = 46.0 cm SD = 5.2cm

*} Recoveries
 not reported
 in database*

detected by Wand = 417
 # detected by R-8 = 406
 # missed by Wand = 0

Difference in Survival of Standard Length CWT vs 1.5 Length CWT = 0.0%

63 54 51 External Mark: Adipose Clip CWT Type: Standard Length (Index Group)
 1,575 Recoveries

detected by Wand = 811
 # detected by R-8 = 760
 # missed by Wand = 2

Sampling Times

R-8 = 15 fish/minute/sampler
 Wand = 8 fish/minute/sampler

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1996 Skykomish Hatchery Rack Electronic Detection Evaluation

# Adults Sampled by Wand	=	5,898	
# CWT's Detected by Wand	=	699	
# CWT's Sampled by R-8	=	2,595	
# CWT's Detected by R-8	=	345	
# CWT's missed by Wand	=	6	= 0.8%
# CWT's missed by R-8	=	0	= 0.0%
# False positives by R-8	=	51	= 1.9%
# False positives by Wand	=	9	= 0.1%

Processing Time:

R-8 = 13 fish/minute/sampler

Wand = 5 fish/minute/sampler