



## W-MR-1: Procedure Analysis – Cow Prep, Milking Routine, Time/Motion and Environment Data Collection

## **Cow Prep Analysis:**

Teat Wash Method	Pre-dip Method	Teat Dry Method			
□ None	□ None	□ None			
☐ Dry wipe, separate towel	□ Dip	☐ Separate paper towel			
☐ Separate towel & sanitizer	□ Spray	☐ Separate cloth towel			
☐ Sanitizer-impregnated towel	□ "One-step prep"	□ Other:			
(e.g., Sani-Wipe)	□ Other:	Comment on completeness of teat			
☐ Common rag or sponge	Product used:	drying:			
☐ Drop hose & water	used:				
☐ Drop hose & sanitizer	Comment on pre-dip coverage:				
☐ Other:		Forestripping Yes / No			
Comment on teat wash method:		Machine stripping Yes / No			
		Quarter milking Yes / No			
	<del></del>	Vacuum shut off Yes / No			
		Automatic Takeoff Yes / No			
		Udder hair removed Yes / No			
	Teat End Swab Test				
No. of teats swabbed	No. of dirty teat ends	% dirty teat ends			

See F-MR-2: Teat End Swab Test

## **Milking Routine Analysis:**

Time Ro	equired to Load	Parlor	Post-milking Teat Dipping	
Open gate	Side loaded	Begin cow prep	□ None □ Dip	
			□ Spray	
			Other:	
			Product used:	
			Describe teat dip coverage:	
Average time:				
			See <u>F-MR-1: White Towel</u>	Test
Comment on number	er of air slips noticed: _			
	·		sign/wear, teat end vacuum or low reserve vacuum.)	

## **Time/Motion Analysis:**

List the steps of your cow prep procedure in sequential order in the columns across the top of the grid, then record the time (from a stop watch) at each step:

Cow ID						

Summary of	Time/Motion Analysis		
		GOAL	
Average prep time (wash, forestrip)		10-20 sec (initial teat stimulation)	
Average prep lag time (start prep to unit attachm	nent)	60-120 sec	
Average machine-on ti	me	Variable depending on production	
Average milk flow		4-6 lb/min	
Average time to load p	arlor	Depends on parlor size	
Average turns per hou	r		
Average cows per hou	r		
Environment A	nalysis:		
		Towns and Continue Of the	
Type of	Bedding Sample	Frequency of Bedding Chang	je
☐ Paper	Wood shavings	☐ Every 24 hours ☐ 1x per week	
Long straw	Washed sand	☐ 48 hours ☐ Every other week	
□ Chopped straw	☐ Sand	☐ 72 hours ☐ 1x per month	
☐ Corn stalks	☐ Sunflower hulls	☐ Other:	
☐ Wood sawdust	Other:	_	
_		Frequency of Cleaning Barr	
	ency of Cleaning Stall or Pen	or Scrapping Alleys	•
☐ Every milking	☐ 1x per week	☐ 1x per day ☐ 3x per day	
☐ Every 24 hours	Every other week	☐ 2x per day ☐ Other:	
☐ 48 hours	☐ 1x per month		
☐ 72 hours	Other:	_	
•			
Summary of cow clean	iliness:		

Summary of udder and teat condition:
See W-MP-3: Teat End Condition Scorecard (1-5 scoring scale) or
W-MP-4: Teat End Condition Scoring (Neijenhuis System)
Summary of lot and/or holding pen conditions:
Summary of for ana/or floraling peri conditions.