ASSUMPTIONS:

Herd size: 1.500 herd size Lameness: 30% Routine trims per cow, per year: 2 Additional trims per lame cow: 1.5

3,000 routine trims per year 1,500 cows x 2 trims per year = 450 lame cows x 1.5 trims per year = 675 lame trims

3.675 total trims per year

COST ANALYSIS:

A. No change in lameness

\$8,640 Routine trim labor cost

\$3,000 Routine trim supply cost

\$2,531.25 Lame cows treatment cost

\$4,315.68 Lame cow labor cost

\$4,755.38 Chute payment

\$7,987.20 Detection cost

\$4,500 Hoof trimmer training cost

\$35,729.51

1. Outsource professional hoof trimmer

\$75,243.75	Total professional hoof trimmer cost		
	\$51,450.00	Total no. of trimmings by hoof trimmer	
		3,675	No. of trims
		\$14.00	Cost per trim
	\$23,793.75	Lame cows cost	
		506.25	No. of treatments
		\$47.00	Cost per treatment

3. All in-house hoof trimming with three scenarios

\$19.20 Labor cost per hour 450 Total routine trim time

\$1.00 Cost per cow 3000 Total routine trims

506.25 No. of treatments \$5.00 Cost per treatment

\$19.20 Labor cost per hour 224.775 Total lame cow time

\$35,000 Cost of chute 6.00% Interest rate

2. Combination of in-house and professional trimming services					
\$62,692.81	Total lame cov	ows only scenario			
	\$42,000.00	Total no. of trimmings by hoof trimmer			
		3000	No. of trims		
		\$14.00	Cost per trim		
	\$2,531.25	Lame cows treatme	nt cost		
		506.25	No. of treatments		
		\$5.00	Cost per treatment		
	\$4,315.68	Lame cow labor cos	t		
		\$19.20	Labor cost per hour		
		224.775	Total lame cow time		
			0.333	Hour time per cow	
			675	Total lame cows	
	\$1,358.68	Chute payment			
		\$10,000	Cost of chute		
		6.00%	Interest rate		
		10	Expected life of chute (yea	ars)	
	\$7,987.20	Yearly detection cos	t		
		8	Time per week		
		\$19.20	Total wage cost		
	\$4,500	Hoof trimming training cost			
		\$3,000	Initial training cost		
		\$1,500	Yearly continued educatio	n	

B. 50 percent lameness reduction -\$12,693.96 (This represents a savings resulting from fewer lame cows and associated treatment costs and losses)			
\$8,640 Routine trim labor cost			
\$19.20 Labor cost per hour			
450 Total routine trim time			
0.15 hour time per cow			
3000 Total routine trims			
\$3,000.00 Routine trim supply cost			
\$1.00 Cost per cow 3000 Total routine trims			
\$1,265.63 Lame cows treatment cost			
253.125 No. of treatments			
\$5.00 Cost per treatment			
\$2,157.84 Lame cow labor cost			
\$19.20 Labor cost per hour			
112.3875 Total lame cow time			
0.333 Hour time per cow			
337.5 New no. of lame trims			
50% reduction in lame cows			
-\$45,000 Reduction in lame cost			
225 No. of case reduced			
\$200 Cost per case of lameness			
\$4,755.38 Chute payment			
\$35,000 Cost of chute			
6.00% Interest rate			
10 Expected life of chute (years) \$7,987.20 Detection cost			
\$7,987.20 Detection cost 8 Time per week			
\$19.20 Total wage cost			
\$4,500 Hoof trimmer training cost			
\$3,000 Initial training cost			
\$1,500 Yearly continued education			

C. 50 percer \$84,152.90	ıt lameness i	ncrease		
\$8,640.00	Routine trim la	e trim labor cost		
	\$19.20	Labor cost per hour		
	450	Total routine trim time		
		0.15 hour time per cow		
		3000 Total routine trims		
\$3,000	Routine trim s	upply cost		
	\$1.00	Cost per cow		
	3000	Total routine trims		
\$3,796.85	Lame cows tre	reatment cost		
	759.37	No. of treatments		
	\$5.00	Cost per treatment		
\$6,473.47	Lame cow lab	or cost		
	\$19.20	Labor cost per hour		
	337.16	Total lame cow time		
		0.333 Hour time per cow		
		1,012.5 New no. of lame trims		
		50% reduction in lame cows		
\$45,000	Increase in lan			
	225	No. of case increased		
	\$200	Cost per case of lameness		
\$4,755.38	Chute paymen			
	\$35,000			
	6.00%			
	10	Expected life of chute (years)		
\$7,987.20	Detection cost			
	8	Time per week		
A	\$19.20	Total wage cost		
\$4,500	Hoof trimmer 1	•		
	\$3,000	Initial training cost		

\$1,500 Yearly continued education

\$1,500 Yearly continued educat

\$3,000 Initial training cost

8 Time per week \$19.20 Total wage cost