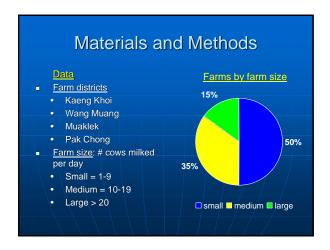


Objectives Determine pricing system, month and year, district of farm, and farm size effects on milk price Calculate farm milk revenues and losses in farm milk revenue across time, farm location, and farm size

Materials and Methods 1034 farms Members of Muaklek dairy cooperative ltd. Records were collected at Muaklek milk collection centers by cooperative personnel Data from February 2004 to June 2006

■ 58,575 farm milk price records

■ 813,636 farm milk yield records



Materials and Methods Data ■ Pricing system variable Pricing System 1 Formula = 11 baht ± additions/deduction for milk fat %, solids non-fat, and bacterial score February 1, 2004 to September 30, 2005 Pricing system 2 Formula = 11 baht ± same addition/deductions in pricing system 1, including bulk tank somatic cell count October 2005 to June 30, 2006

	Pricing syste	ms	
<u>Factor</u>	<u>Grade</u>	Effect on price	Price (baht/k
Milk fat %	Less than 3.5%	Deduction	0.2
Solid non-fat	Less than 8.4%	Deduction	0.1
Bacterial score	1	Addition	0.7
	2	Addition	0.5
	3	-	0
	4	Deduction	1
	Previous test was 4	Deduction	2
	Two previous tests were 4	Deduction	3
BTSCC (cells/cm3)	Less than 200,000	Addition	0.1
	200,001 to 1,000,000	-	0
	1,000,001 to 1,500,000	Deduction	0.05
	1,500,001 to 2,000,000	Deduction	0.1
	2,000,001 to 2,500,000	Deduction	0.15
	2,500,001 to 3,000,000	Deduction	0.2
	More than 3,000,000	May reject milk	
		1///	/ /

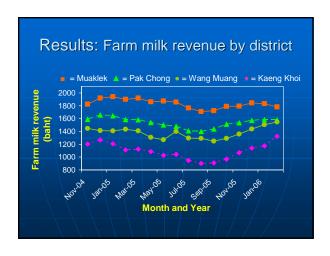
Statistical Analysis Farm milk price trait Logistic transformation Linear model GLM procedure of SAS Farm milk price = pricing system + month (year) x by pricing system + farm district x farm size x pricing system + residual

Statistical Analysis
Farm milk revenue
 product of the average farm milk yield and farm milk price
Maximum farm milk revenue
 average farm milk yield of farm x maximum milk price
maximum milk price
• 11.7 = pricing system 1 • 11.8 pricing system 2
Loss in farm milk revenue
 maximum farm milk revenue – actual farm milk revenue

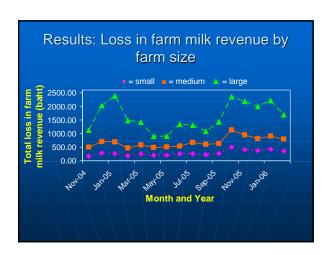












Conclusion

- On average farms had higher farm milk prices in pricing system 2 versus pricing system 1 (11.71 vs. 11.68, P < 0.05)
- Majority of small farms had higher farm milk prices and lower losses in farm milk revenue than medium and large farms across both pricing systems

Implications

 Results of this study should help motivate farmers to adopt desirable management practices that could lead to higher farm milk prices and lower losses in milk revenue

