Name:	

ECON 337: Agricultural Marketing Spring 2014

Homework 5: Dairy Marketing Due: 04/01/2014

1.	Calculate the butterfat price,	nonfat solids price	e, Class IV	skim milk	price, and	Class IV	price.
	SHOW YOUR WORK.						

2. Calculate the butterfat price, other solids price, protein price, Class III skim milk price, and Class III price. SHOW YOUR WORK.

Calculate the Class II butterfat price, Class II nonfat solids price, Class II skim milk price, and Class II price. SHOW YOUR WORK.
Calculate the Class I butterfat price, Class I skim milk price, and Class I price. The applicable Class I differential is \$0.20 per cwt. SHOW YOUR WORK.
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5.	Calculate Producer A's and Producer B's milk values.	Use the Class III and IV calculated
	values for the protein, butterfat, and other solids rate.	

	Producer A	Producer B
Location/County	Story	Buena Vista
Class I Price Differential (map)	\$1.80	\$1.75
Class I Price Differential (calculated)	\$0.20	\$0.15
Butterfat	4.60%	4.40%
Protein	3.80%	2.90%
Other solids	6.10%	5.80%
Somatic cell count	100,000	410,000
Milk sold (cwt)	1,000	1,000

Producer A's Milk Values

	Amount	Rate	Value
Protein	lbs		
Butterfat	lbs		
Other solids	lbs		
Somatic cell count			
Producer Price Differential			
Total value			
		_	
Value per cwt	cwt	_	
		_	

Producer B's Milk Values

	Amount	Rate	Value
Protein	lbs		
Butterfat	lbs		_
Other solids	lbs		_
Somatic cell count			
Producer Price Differential			_
Total value		_	
Value per cwt	cwt	_	

Class I:

Class I Price = (Class I skim milk price * 0.965) + (Class I butterfat price * 3.5)

Class I Skim Milk Price = Higher of advanced Class III or IV skim milk pricing factors + applicable Class I differential

Class I Butterfat Price = Advanced butterfat pricing factor + (applicable Class I differential / 100)

Class II:

Class II Price = (Class II skim milk price * 0.965) + (Class II butterfat price * 3.5)

Class II Skim Milk Price = Advanced Class IV skim milk pricing factor + \$0.70

Class II Butterfat Price = Butterfat price + \$0.007

Class II Nonfat Solids Price = Class II skim milk price / 9

Class III:

Class III Price = (Class III skim milk price * 0.965) + (Butterfat price * 3.5)

Class III Skim Milk Price = (Protein price *3.1) + (Other solids price *5.9)

Protein Price = ((Cheese price - 0.2003) * 1.383) + ((((Cheese price - 0.2003) * 1.572) – Butterfat price * 0.9) * 1.17)

Other Solids Price = (Dry whey price - 0.1991) * 1.03

Butterfat Price = (Butter price - 0.1715) * 1.211

Class IV:

Class IV Price = (Class IV skim milk price * 0.965) + (Butterfat price * 3.5)

Class IV Skim Milk Price = Nonfat solids price * 9

Nonfat Solids Price = (Nonfat dry milk price - 0.1678) * 0.99

Butterfat Price = (Butter price - 0.1715) * 1.211

Announcement of Class and Component							
Prices			Announcement of Advanced Prices and Pricing Factors				
Product Price Avera	iges:						
Butter	\$1.6475	(per pound)	Advanced Class III Skim Milk Pricing Factor:	\$12.99	(per hundredweight)		
Nonfat Dry Milk	\$2.0335	(per pound)	Advanced Class IV Skim Milk Pricing Factor:	\$15.81	(per hundredweight)		
Cheese	\$2.0838	(per pound)	Advanced Butterfat Pricing Factor:	\$1.7791	(per pound)		
Dry Whey	\$0.6025	(per pound)	·				