

Name _____ School _____ Contestant Number _____

**2016 Wyoming State FFA CDE
Agricultural Technology and Mechanical Systems
Environmental and Natural Resources**

Analyze the provided documents to assist in making the best selection for your use considering the following:

As the manager of Double H ranch in Rawlins Wyoming, you are getting ready to work cattle (today April 4th) for the coming spring. The operation that you are charged with managing is a 1,000 head cow-calf pair operation. Currently, you have 750 head that will need to be worked broken down as follows:

250 cows calved the previous fall	175 cows that have calved since March 1 st
250 fall calves to be sold May 1 st	75 that will calve before May 1 st

You are currently researching parasiticides for the best pour-on option(s) that will work for all the cattle, while being the most cost efficient.

Use the handouts and the information below to answer the following questions.

	Withdrawal Time	Use on lactating Cattle	Dosage	Price
Ivomec	42 days	Yes	1mL/22 Lb. body weight	5 L for \$284.99
Dectomax	35 days	Yes	1mL/22 Lb. body weight	5 L for \$304.99
Cydenctin	0 days	Yes	1mL/22 Lb. body weight	2.5 L for \$274.97

Fill in the tables. Be sure to show your work for full credit, you may use the back of this sheet if needed.

Product	Amount of product needed.	Price for using the product throughout your whole operation.	Type of cattle product should be used on.
Ivomec	29.33L	1709.94	All cows
Dectomax	29.33L	1829.94	All cows
Cydenctin	29.33L	3299.64	Sale and new calves

Type of Livestock.	Amount of most economical product needed.	Price for using the product.
Cows (Fall Calves) 1100lbs	12.5L	854.97
Cows (Spring Calves) 1100lbs	12.5L	854.97
Calves (Spring) 150lbs	1.575L	274.97
Calves (Fall) 500lbs	2.75L	549.94

How much will the total cost be, using the most economical combination of the researched types of pour-on best for each type of cattle? What is this combination?

\$1974.89, 25L Ivomec and 4.33L Cydenctin

Criterion	Points possible	Points earned
Charts	22	
Economical Combination	5	
Safety	3	

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