

Homework Question 2

A hayfield produces 4 alfalfa crops, each of 1.5 ton/acre.

- How much hay is removed from the field?
- How much K is in that hay? (hay is 2.8% K)
- How much fertilizer would be required to replace the removed K?
- What might the fertilizer cost and what might the hay be worth?

a) How much hay is removed from the field?

b) How much K is in that hay?

c) How much fertilizer would be required to replace the removed K?
 (K₂O = 83% K)
 [0.83 lb K/lb K₂O = 1.205 lb K₂O/lb K]

d) What might the hay be worth and what might the fertilizer cost?

Fertilizer	%K ₂ O	\$/ton	lb K ₂ O in 1 ton fertilizer	Cost per lb K ₂ O
19-19-19	19%	\$375		
24-8-16	16%	379		
0-0-60	60%	236		