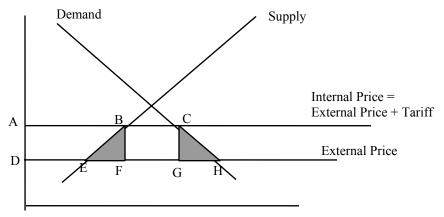
Consumer Surplus / Producer Surplus

Traditional treatment



Loss in Consumer Surplus	ACHD	
Gain in Producer Surplus	ABED	
Tariff Revenue	BCFG	
Net Loss		BFE+DHG

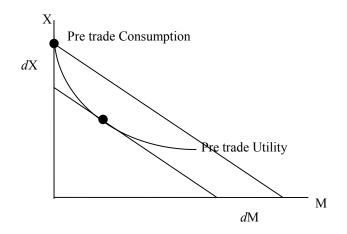
 $Loss = \frac{1}{2} tariff$

LOSS =
$$\frac{1}{2} tariff \times \Delta Imports = \frac{1}{2} tariff \times \frac{\Delta Imports / Imports}{\Delta price / price} Imports \times tariff$$

= $\frac{1}{2} tariff^2 \times Import Elasticity \times Import Quantity$

Consumer Surplus

X = exportable M = importable



dX = the amount you would be willing to pay in terms of X to have the exchange opportunity dM = the amount you would be willing to pay in terms of M to have the exchange opportunity $dM = (p_X/p_M) dX$

These are areas below/above compensated demand curves:

