- 3.5 1. The company may lose money from the hedge. For example, an airline that hedges by buying oil futures may lose money if the price of oil futures drops.
- 2. Shareholders can hedge themselves and own shares with the purpose of speculation. If they wanted a low risk investment, they could buy Treasury bonds.
- 3. If a company's competitors don't hedge, then hedging could place a company at a disadvan tage by placing the hedging company at a slightly better position in the worst case but a bad position if the hedge is unnecessary. This is because of the power these competitors have to affect the market in the worst case (i.e. they can raise prices).
- 3.6 $h = \rho \frac{\sigma s}{\sigma_F} = .8 \frac{.65}{.81} = .642$
- h = .642, meaning that the ratio
 of dollars invested in the
 future position to the dollars exposed
 to the commodity is .642.

3.7 The hedge that minimizes fisk is shorting $N^* = B \frac{V_A}{V_F} = 1.2 \frac{20,000,000}{1080 \cdot 25} \approx 89$ index futures.

To reduce the B of the portfolio to .6, the Company should short (B-B*) VA = .6 20,000,000 ~ 45 index futures.

3.16 $h = .7 \frac{1.2}{1.4} = .6$

The beef producer should purchase

N* = k* OA = .6 200,000 = 3

OF 40,000

December live cattle futures

to hedge their risk, and close out their position on November 15.

3.19 The hedge ratio of 1.5

means that the company
shorts 150 oil futures at
a time, and so the
dollar gain per barrel of oil
from shorting the Dil futures
will be 1.5.\$1.70 = \$2.55.

Jacob MA 528 HW 2 Wyngaard Initial Margin Requirement is \$64,000 Margin Call For Company sometime between October 2017 and February 2018 and between February 2018 and August 2018.