
CHAPTER 21

CREDIT AND INVENTORY MANAGEMENT

21.1 CREDIT AND RECEIVABLES

Components of Credit Policy

1. Terms of sales
2. Credit analysis
3. Collection policy

Terms of sale

basic form:

(take this discount off the invoice price)/(if you pay in this many days), **(else pay the full invoice amount in this many days)**

2/10, net **30** means take a 2% discount from the full price if you pay within 10 days, or else pay the full amount in 30 days

Example: Assume that you are purchasing \$1,000 with terms of **2/10**, net **30**. What is the effective annual rate of not taking the discount?

$$\text{EAR} = (1 + i_{\text{periodic}})^m - 1.0$$

21.3 ANALYZING CREDIT POLICY

Credit policy effects:

1. revenue effects
2. cost effects
3. the cost of debt
4. the probability of nonpayment
5. the cash discount

Credit analysis

- 5 Cs of credit
- a. character
 - b. capacity
 - c. capital
 - d. collateral
 - e. conditions

Collection policy

21.7 INVENTORY MANAGEMENT

Inventory types:

1. raw materials
2. work-in-progress
3. finished goods

Inventory costs:

Inventory carrying costs

1. storage and tracking costs
2. insurance and taxes
3. losses due to obsolescence, deterioration, or theft
4. the opportunity cost of capital on the invested amount

shortage costs

1. restocking or order costs
2. costs related to safety reserves

**Goal is to minimize the sum of inventory carrying costs and shortage costs

21.8 INVENTORY MANAGEMENT TECHNIQUES

The Economic Order Quantity Model

$$Q^* = \sqrt{\frac{2T \times F}{CC}}$$

where T is the firm's unit sales per year,
F is the fixed cost per order, and
CC is carrying costs per unit

Example: Annodale Manufacturing starts each period with 10,000 "Long John" golf clubs in stock. This stock is depleted each month and reordered. If the carrying cost per golf club is \$1, and the fixed order cost is \$5, is Annodale following an economically advisable strategy?