Chapter 19

Short-Term Finance and Planning

Key Concepts and Skills

- Understand S-T Financial Decisions (Working Capital Management)
- Understand the components of the cash cycle and the operating cycle and why it is important
- Be able to prepare a cash budget

- To this point, we have described many of the decisions of L-T finance (Example: capital budgeting, financial structure).
- The most important difference between S-T and L-T finance is the timing of the cash flows. (S-T financial decision involves cash inflows or outflows that occur within a year or less)

S-T Finance S-T finance is primarily concerned with the

- analysis of decisions that affects CAs and CLs • NWC – is associated with S-T financing decision
- making. (CA-CL)
- S-T Financial Management : Working Capital Management

<u>Example :</u>

- What is a reasoable level of cash to keep on hand (in a bank) to pay bills?
- How much should the firm borrow in the S-T?
- How much credit should be extended to customers

Sources and Uses of Cash

Balance sheet identity (rearranged)

- NWC + fixed assets = long-term debt + equity
- NWC = (cash + other CA) CL
- Cash = long-term debt + equity + CL CA other than cash fixed assets
- Sources of Cash
- Increasing long-term debt, equity or current liabilities
- Decreasing current assets other than cash or fixed assets
- Uses of Cash
 - Decreasing long-term debt, equity or current liabilities
 Increasing current assets other than cash or fixed assets

Activities that increase Cash

- Increasing L-T Debt (borrow over the longterm)
- Increasing Equity (selling some stock)
- Increasing Current Liabilities (getting a 90day loans)
- Decreasing current asset other than cash (selling some inventory other for cash)
- Decreasing fix assets (selling some inventory)

Activities that decrease Cash

- Decrease L-T debt (paying-off a L-T debt)
- Decrease Equity (repurchase some stock)
- Decrease Current Liabilities (paying-off a 90-day loans)
- Increase current asset other than cash (buying some inventory other for cash)
- Increasing fix assets (buying some inventory)

Example 19.1: Label each as a source or Use and describe its effect on the firm's cash balance

- A \$500 dividend was paid
- Account Payable Increased by \$500
- Fixed asset purchased were \$900
- Inventories increased by \$625
- L-T Debt decreased by \$1,200.



The Operating Cycle and Cash Cycle				
The primary concern in S-T finance is the firms short –run operating and financing activities. For manufacturing firm, for short-run activities might consist of;				
 <u>Events</u> Buying raw materials Paying cash Manufacturing the product Selling the product 	Decisions How much inventory to order Whether to borrow/draw down cash balances What choice of production technology to use Whether credit should be extended to a particular customer			
U	19.9			

The Operating Cycle

- Operating cycle time between purchasing the inventory and collecting the cash from selling the inventory
- Inventory period time required to purchase and sell the inventory
- Accounts receivable period time required to collect on credit sales
- Operating cycle = inventory period + accounts receivable period

Characteristics of a firm with a long Operating Cycle?

•Operating Cycle = Inventory Period + •Acc Receivable Period

- Firms with relatively long inventory periods and/ relatively long receivable periods.
- i.e. such firm tends to keep inventory on hand, and they allow customer to purchase on credit and take a relatively long time to pay.

Cash Cycle

Cash cycle

- Amount of time we finance our inventory
- Difference between when we receive cash from the sale and when we have to pay for the inventory
- Accounts payable period time between purchase of inventory and payment for the inventory
- Cash cycle = Operating cycle accounts payable period

Characteristics of a firm with a long Cash Cycle?

 Cash Cycle = Operating Cycle -Account Payable Period

- A firm have relatively L-T between the time purchased inventory is paid for and the time that inventory is sold and payment received.
- Thus, these are firms that have relatively short payables periods and/or long receivable cycles.









The Cash Budget

Sales and Cash Collections

- Example: If a company has a 45-day receivables, or average collection period. This means that half of the sales in a given quarter will be collected the following quarter. (We are assuming that each quarter is 90 days)
- Cash Collection = Beg. Acc. Receivables+1/2 Sales
- Endind receivables = Beg. Receivables + Sales Collections
- Cash Outflows (Cash Disbursement, or payments)
- Payments of Acc. Payable
- Wages, Taxes and other expenses
- Capital expenditures
- L-T Financing expenses (Int. Payments on L-T debt outstanding and dividend payments to shareholders)

The Cash Balance

- The predicted net cash inflow is the difference between cash
- collections and cash discursements

Greenwell Corporation Cash Budget (in millions) Beginning receivables + Sales - Cash Collections Ending Receivables (Beg. rec. + 1/2 Sales) (Beg. rec + sales - collections) Payment of Accounts + Wages, Taxes and Other Expenses + Capital Expenditure Interest and Dividend payments **Total Cash Disbursemen** Total Cash Collections - Total Cash Disbursement Net Cash Inflow Beginning Cash Balance + Net Cash Inflows Ending Cash Balance - Minimum Cash Balance

Example 19.3: Prepare a Cash Budget Pet Treats Inc. specializes in gourmet pet treats and receives all income from sales Sales estimates (in millions) • Q1 = 500; Q2 = 600; Q3 = 650; Q4 = 800 Accounts receivable Beginning receivables = \$250

- Average collection period = 30 days
- Accounts payable
- Purchases = 50% of next quarter's sales
- Beginning payables = 125
- Accounts payable period is 45 days

Example 19.3: Cash Budget Information......Continued

- Other expenses
 - · Wages, taxes and other expense are 30% of sales
 - Interest and dividend payments are \$50
 - A major capital expenditure of \$200 is expected in the second quarter
- The initial cash balance is \$80 and the company maintains a minimum balance of \$50

Example 19.4: The Operating and Cash Cycle Consider the following Financial Statement information for the Route 66 Company. Item Beginning Ending Inventory \$1.273 \$1,401

Acc. Rec.	3,782		3,368
Acc. Pay.	1,795		2,025
 Net Sales 		\$14,750	
 COGS 		\$11,375	

Calculate the Operating and the Cash Cycles.

Example 19.5: Cash Balance for **Greenwell Corporation**

The Greenwell Corporation has a 60-day average collection period and wishes to maintain a \$160 million minimum cash balance. Based on this the information given in the following cash budget, complete the cash budget. What conclusion do you draw?

Greenwell C Cash Budget	Corpo (in n	oratio nillio	on ns)	
Beginning receivables	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>
 Beginning receivables Sales <u>Cash Collections</u> Ending Receivables 	\$240 150	165	180	135
 Total Cash Collections <u>Total Cash Disbursement</u> Net Cash Inflow 	170	160	185	190
Beginning Cash Balance Net Cash Inflows	45			
Ending Cash Balance Minimum Cash Balance				
Cumulative Surplus (Defic	it)			19-24

Sugested Problems		
• 1, 3, 6.		