Learning Centre

Cash Management



A business's estimation of cash flow during upcoming months of operation is even more critical than its projected budget of revenues and expenses. This indicates whether a business will have the cash it needs to pay employee wages/salaries and other operating expenses, along with financial payments of loans or purchases of new equipment. If a business's initial projected cash flow is negative (which means there's not enough cash to cover necessary costs), it is likely the business will fail.

To create the budgeted cash flow of the business, a business must identify its estimated inflows and outflows of cash. All inflows of cash like cash revenue, credit card revenue collections or gains from equipment sale are called **Cash Receipts**. All uses of cash are called **Cash Disbursements** or **Cash Payments**. The key to these problems is reading carefully to determine when cash will be collected and paid out. IMPORTANT: *Prepaid expenses and depreciation are NOT included in cash disbursements*.

Beginning Cash Balance	
Cash Receipts, Operating	
Cash sales revenue	
Credit card sales collected	
Accounts receivable collected	
Total Cash Receipts, Operating	
Cash Receipts, Financing	
Interest income	
Sale of equipment	
Total Cash Receipts, Financing	
Total Cash Receipts	
Cash on Hand	
Cash Disbursements, Operating	
Wages expense	
Utilities expense	
Total Cash Disbursements, Operating	
Cash Disbursements, Financing	
Loan payment	
Equipment purchase	
Total Cash Disbursements, Financing	
Total Cash Disbursements	
Ending cash balance	
Cash Disbursements, Financing Loan payment Equipment purchase Total Cash Disbursements, Financing Total Cash Disbursements	

The general setup for a budget cash flow is shown below with examples for each section:



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Example: A business is planning to open in September. It projects that Sept, Oct, and Nov revenues will be \$45,000, \$46,700 and \$48,200 respectively. Of revenues, 40% will be cash; the remaining 60% will be credit card receivables. Of the credit card revenue, 75% is collected during the month of sales while the remainder is collected in the following month. Show the cash receipts for October and November.

Cash Receipts	October	November
Current month cash sales	46,700×0.40 = 18,680	48,200×0.40 = 19,280
Current month CCR collections	46,700×0.60×0.75 = 21,015	48,200×0.60×0.75 = 21,690
Previous month CCR collections	45,000×0.60×0.25 = 6,750	46,700×0.60×0.25 = 7,005
Total cash receipts	46,445	47,975

Practice Problems

1. The following projected income statement shows the estimated first two months of operation (March–April) of a dumpling food truck. Of the revenue, 72% is collected in cash with the remainder on credit card. CC receivables are collected 80% in the month of sales and the remaining 20% in the month after the sales. The cost of goods sold is paid 90% in the month incurred and 10% in the following month. The wages, operating, and license expenses are paid in full in the month incurred. The owner must begin repaying a bank loan in the second month of operation at \$3,000/month. The owner has \$600 on hand at the beginning of March.

(a) Calculate the cash inflow for the months of March and April

- (b) Calculate the cash outflow for the months of March and April
- (c) Find the ending cash balance for the month of April.

	March		Apri	
Sales Revenue		\$56,000		\$57,000
Cost of Goods Sold		(21,280)		(21,660)
Gross Margin		34,720		35,340
Wages expense	22,400		22,800	
Other operating expense	6,960		7,120	
License expense	200		0	
Depreciation expense	2,500		2,500	
Interest expense	750		750	
Total operating expenses		(32,810)		(33,170)
Net Income/Loss		1,910		2,170

2. You own a new bubble tea shop that opens on July 1, 2015. The shop expects to take in \$1,800 a day in sales revenue and will be open for 27 days of the month. Sales revenue is estimated to be 45% cash and 55% on credit card receivables. You project that 80% of credit card receivables will be collected in the actual month of sales and the balance will be collected in the following month. Wages and salaries expense is expected to be 40%



and cost of sales is 37% of sales revenue. These expenses will be on a cash basis. Other operating costs are estimated to be 10% of sales revenue and are paid in the month following. Depreciation is \$1,600 a month; rent is \$1,800 a month paid on the first of each month. Principal payments on your financial loan to start up the business are \$2,750 a month. The first payment is due on July 15. Interest expense of \$250 will be paid each month. You have \$1500 cash on hand on July 1 and know that you won't be able to borrow any more money. You prepaid your restaurant license fee in March of \$1000 for the whole year. If the tea shop is your only source of income, (a) produce the budgeted income statement for the month of July and (b) the tea shop's cash budget for the month of July.

Answers

1. (a)				
	Cash Receipts		March		April
	Cash Sales revenue	[1]	\$40,320	[3]	\$41,040
	CC sales revenue	[2]	12,544	[4]	12,768
	CC sales revenue, previous		<u>0</u>	[5]	3,136
	Total cash receipts		52,864		56,944
	[1] \$56,000 x 72% = 40,320 [2] \$56,000 x 28% x 80% = 12,544 [3] \$57,000 x 72% = 41,040	[4] \$57,000 x 28% x 80% = 12,76 [5] \$56,000 x 28% x 20% = 3,136			

(b)				
Cash Payments		March		April
Cost of Goods	[1]	\$19,152	[2]	\$41,040
Cost of Goods, previous			[3]	12,768
Wage expense		22,400		22,800
Operating expense		6,960		7,120
License expense		200		
Interest expense		750		750
Loan repayment				3,000
Total cash payments		49,462		55,292

[1] \$21,280 x 90% = 19,152

- [2] \$21,660 x 90% = 19,494
- [3] \$21,280 x 10% = 2,128

(c) \$5,654



2. (a)		
a. Budgeted Income Statement for the mon	th of July 20	15
Sales revenue [27 days x \$1,800]	U	\$48,600
Cost of sales [\$48,600 × 37%]		<u>(17,982)</u>
Gross margin		\$30,618
Operating expenses	• · · · · · ·	
Wages & salaries expense [\$48,600 × 40%]	\$19,440	
Rent expense	1,800	
Interest expense	250	
Other operating expenses [\$48,600 × 10%]	4,860	
Depreciation expense	<u>1,600</u>	(
Total operating expenses		<u>(27,950</u>)
Operating income		<u>\$_2.668</u>
b. Cash Budget for the Month of July 202	15	
Beginning cash balance		\$ 1,500
Cash receipts, operations		. ,
Cash sales revenue [\$48,600 × 45%]		21,870
Credit card sales revenue [\$48,600 x 55% x 8	0%]	<u>21,384</u>
Total cash available	-	\$44,754
Cash disbursements, operations		
Cost of sales [\$48,600 × 40%]	\$19,44	
Wages & salaries expense [\$48,600 × 37%]	17,98	
Rent expense	1,80	
Loan interest expense	25	
<i>Total cash disbursements, operations</i> Cash excess (deficiency)		<u>(39,472)</u> <u>\$ 5,282</u>
Cash disbursements, Financing		<u>Φ 3,202</u>
Loan repayment		(2,750)
Ending cash balance		<u>(2,730)</u> <u>\$ 2,532</u>
Linding cash balance		<u>Ψ 2,002</u>