Running Head: Yum! Brands Financial Analysis

Sample Project 3

Yum! Brands Inc.: A Financial Ratio Analysis, Capital Structure Estimate, Cost of Capital, Cash Flow Estimation and Capital Budgeting Analysis

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Executive Summary

A capital budget analysis of Yum! Brands, Inc. concludes that this organization is in relatively good financial health as compared to the restaurant industry. Yum! Brands, Inc. is a diverse organization. Its principal divisions are KFC, Taco Bell, Pizza Hut, Long John Silvers and A&W. It has more restaurants that any other restaurant company in the world. However its sales volume is only 1/4th that of McDonalds Corporation.

Due to expansion in China, Yum! Brands is currently experience significant growth. Because it is in a organization that typically funds much of its growth from cash flow, it uses little debt to fund its operations. Yum and McDonalds have invoked a strategy of buying back stock over the past several years. This has been done using earnings. Each company also has managed to pay dividends at an increasing rate over the course of the past five years. Conversely, CKE, Inc., the owner of Carl's Jr. and Hardees brands, has been experiencing a significant reduction in its profits and has had some financing difficulties as a result.

The evaluation of an expansion project indicates that Yum! Brands can expect a significant return on its investment. It will also receive substantial cash flows from the project.

Liquidity Ratios

Exhibit 1a Diagram of Current and Quick Ratio Trend Analysis

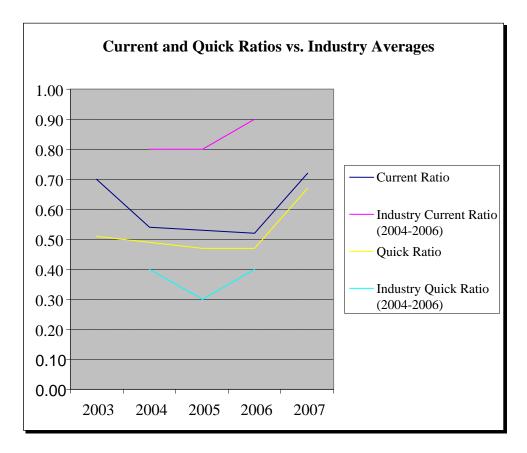


Exhibit 1b Trend Analysis of Current and Quick Ratios¹

Ratio	2003	2004	2005	2006	2007	Average ²	Comparison Comments
Current Ratio	0.70	0.54	0.53	0.52	0.72	0.53	Unfavorable ³
Industry Current Ratio (2004-2006)		0.80	0.80	0.90		0.83	
Quick Ratio	0.51	0.49	0.47	0.47	0.67	0.48	Favorable
Industry Quick Ratio (2004-2006)		0.40	0.30	0.40		0.37	

¹ Trend analysis is computed using five year results for Yum! Brands, Inc. Industry results were only available for a three year period from 2004-2006 and are included for illustrative purposes.

² Average is computed using 2004-2006 results for both Yum! Brands, Inc. and the industry. This is done to ensure a proper comparison.

³ A comparison system is used for purposes of evaluation of the results of Yum! Brands, Inc. versus the industry. This comparison ranges from high to low as follows: Highly favorable- results are superior to the industry; Favorable- results are slightly better than the industry; Comparable- results are similar to the industry; Unfavorable- results are slightly less than the industry; Highly Unfavorable- results are significantly poorer than the industry.

The trend for the current ratio had been deteriorating until 2007. The 2007 result appears to indicate the possibility that the company is improving in this area- reflective of its 2003 results. It still remains unfavorable to the industry result. The company's quick ratio has remained relatively unchanged during the analysis period and remains favorable versus the industry.

Exhibit 2a Diagram of Current Liabilities to Net Worth Trend Analysis

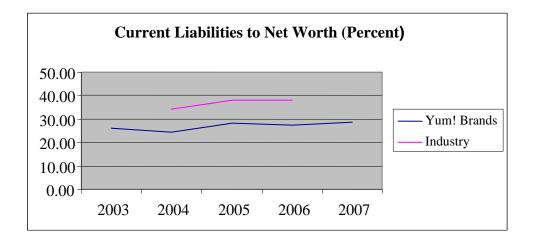


Exhibit 2b Trend Analysis of Current Liabilities to Net Worth

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	26.00	24.16	28.00	27.14	28.47	26.43	Favorable
Industry		34.00	38.20	38.20		36.80	

Exhibit 3a Diagram of Current Liabilities to Inventory Trend Analysis

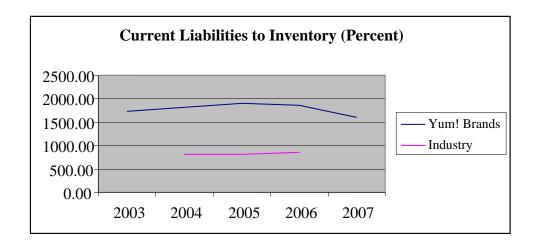


Exhibit 3b Trend Analysis of Current Liabilities to Inventory (Percent)

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	1726.87	1810.53	1909.41	1853.76	1610.94	1857.90	Unfavorable
Industry		806.10	821.80	858.80		828.90	

Exhibit 4a Diagram of Total Liabilities to Net Worth

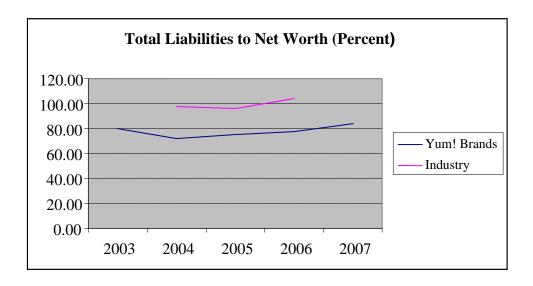


Exhibit 4b Trend Analysis of Total Liabilities to Net Worth (Percent)

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	80.07	72.00	75.00	77.38	84.27	74.79	Favorable
Industry		97.40	96.00	103.70		99.03	

Fixed Assets to Net Worth (Percent) 400.00 350.00 300.00 250.00 Yum! Brands 200.00 Industry 150.00 100.00 50.00 0.00 2003 2004 2005 2006 2007

Exhibit 5a Diagram of Fixed Assets to Net Worth (Percent)

Exhibit 5b Trend Analysis of Fixed Assets to Net Worth (Percent)

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
							Highly
Yum! Brands	292.86	215.61	231.61	252.68	337.92	233.30	Unfavorable
Industry		128.80	131.90	134.90		131.87	

Efficiency/Asset Management Ratios

Exhibit 5a Diagram of Sales to Inventory (Times)

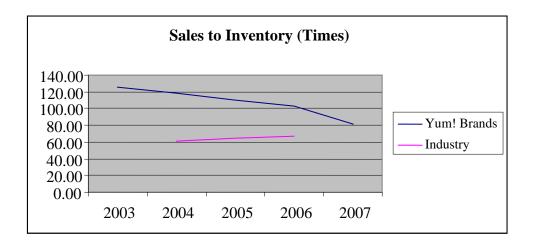


Exhibit 5b Trend Analysis of Sales to Inventory (Times)

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	125.07	118.57	109.99	102.81	81.38	110.46	Unfavorable
Industry		60.90	65.10	66.60		64.20	

Exhibit 6a Diagram of Assets to Sales

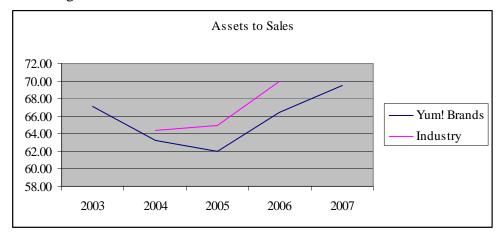


Exhibit 6b Trend Analysis of Assets to Sales

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	67.06	63.21	62.00	66.45	69.53	63.89	Comparable
Industry		64.40	64.90	69.90		66.40	

Exhibit 7a Diagram of Sales to Net Working Capital (Times)

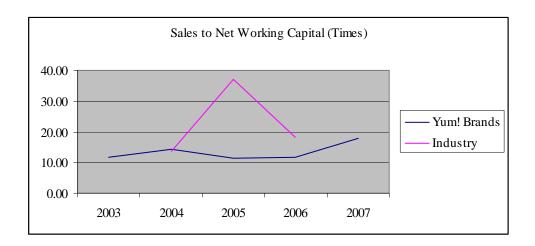


Exhibit 7b Trend Analysis of Net Working Capital (Times)

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands Industry	11.84	14.33 13.60	11.36 37.10	11.62 18.20	17.93	12.43 22.97	Highly Favorable

Exhibit 8a Diagram of Accounts Payable to Sales

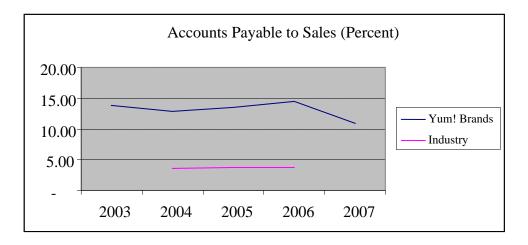


Exhibit 8b Trend Analysis of Accounts Payable to Sales

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands Industry	13.81	12.87 3.50	13.44 3.80	14.50 3.80	10.93	13.60 3.70	Unfavorable

Profitability

Exhibit 8a Diagram of Return on Sales

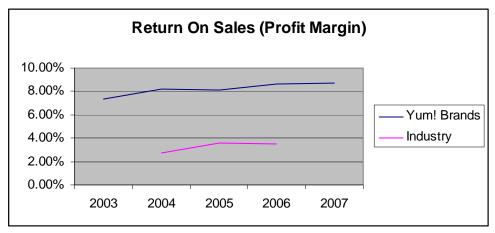


Exhibit 8b Trend Analysis of Return on Sales

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
							Highly
Yum! Brands	7.36%	8.21%	8.15%	8.62%	8.72%	8.33%	Favorable
Industry		2.70%	3.60%	3.50%		3.27%	

Exhibit 8a Diagram of Return on Assets

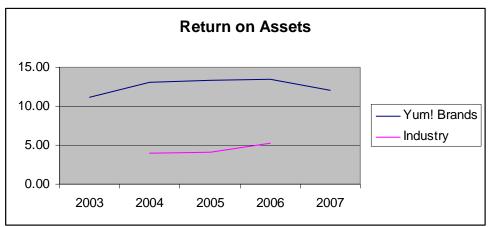


Exhibit 8b Trend Analysis of Return on Assets

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
							Highly
Yum! Brands	11.20	13.10	13.30	13.50	12.03	13.30	Favorable
Industry		4.00	4.10	5.20		4.43	

Exhibit 8a Diagram of Return on Net Worth

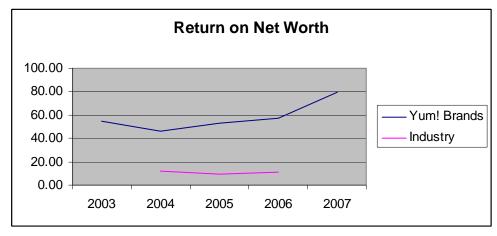


Exhibit 8b Trend Analysis of Return on Net Worth

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
							Highly
Yum! Brands	55.09	46.39	52.59	57.34	79.80	52.11	Favorable
Industry		11.90	9.00	10.90		10.60	

Exhibit 8a Diagram of Basic Earning Power

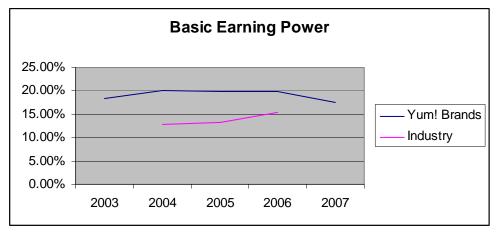


Exhibit 8b Trend Analysis of Basic Earning Power

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
							Highly
Yum! Brands	18.33%	20.00%	19.89%	19.86%	17.61%	19.92%	Favorable
Industry		12.72%	13.31%	15.32%		13.78%	

Return on Common Equity

100.00%
80.00%
60.00%
40.00%
20.00%
0.00%
2003 2004 2005 2006 2007

Exhibit 8a Diagram of Return on Common Equity

Exhibit 8b Trend Analysis of Return on Common Equity

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	55.09%			57.34%	79.81%	52.11%	Highly Favorable
Industry		16.04%	17.18%	22.93%		18.72%	

Market Value

Exhibit 8a Diagram of Price to Earnings (GAAP)



Exhibit 8b Trend Analysis of Price to Earnings (GAAP)

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
	\$	\$	\$	\$	\$	\$	
Yum! Brands	16.60	19.45	19.20	19.91	21.91	19.52	Comparable
		\$	\$	\$		\$	
Industry		21.41	30.52	19.36		23.76	

\$3.00 \$2.50 \$2.00 \$1.50 \$1.00 \$0.50 \$-2003 2004 2005 2006 2007

Exhibit 8a Diagram of Earnings per Share (GAAP)

Exhibit 8b Trend Analysis of Earnings Per Share (GAAP)

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
	\$	\$	\$	\$	\$	\$	
Yum! Brands	1.01	1.21	1.28	1.46	1.68	1.32	Unfavorable
		\$	\$	\$		\$	
Industry		1.79	2.04	2.83		2.22	

Exhibit 8a Diagram of Cash Flow per Share

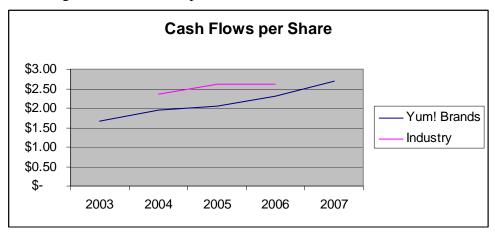


Exhibit 8b Trend Analysis of Cash Flow/Share

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
	\$	\$	\$	\$	\$	\$	_
Yum! Brands	1.67	1.95	2.06	2.31	2.68	2.11	Unfavorable
		\$	\$	\$		\$	
Industry		2.35	2.61	2.61		2.53	

Exhibit 8a Diagram of Book Value per Share

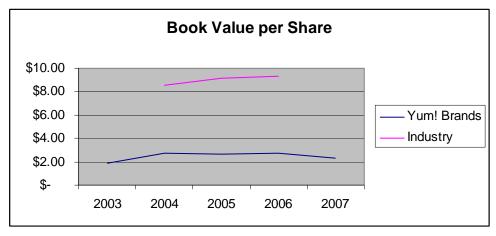


Exhibit 8b Trend Analysis Book Value per Share

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
	\$	\$	\$	\$	\$	\$	Highly
Yum! Brands	1.92	2.75	2.61	2.74	2.28	2.70	Unfavorable
		\$	\$	\$		\$	
Industry		8.55	9.12	9.31		8.99	

Exhibit 8a Diagram of Dividend Yield

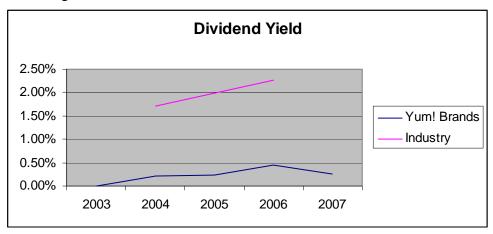


Exhibit 8b Trend Analysis of Dividend Yield

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	0.00%	0.21%	0.23%	0.45%	0.26%	0.30%	Unfavorable
Industry		1.72%	1.99%	2.26%		1.99%	

Debt Management

Exhibit 8a Diagram of Debt Ratio

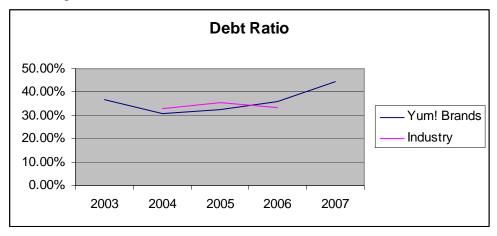


Exhibit 8b Trend Analysis of Debt Ratio

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	36.76%	30.58%	32.64%	35.76%	44.35%	33.00%	Comparable
Industry		33.12%	35.47%	33.47%		34.02%	

Exhibit 8a Diagram of Times Interest Earned

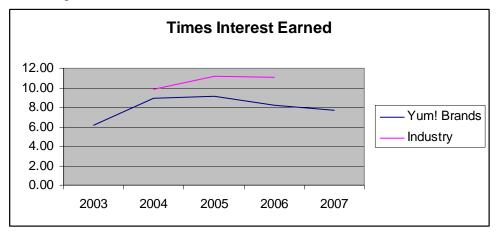


Exhibit 8b Trend Analysis of Times Interest Earned

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	6.12	8.95	9.08	8.19	7.68	8.74	Unfavorable
Industry		9.87	11.21	11.06		10.71	

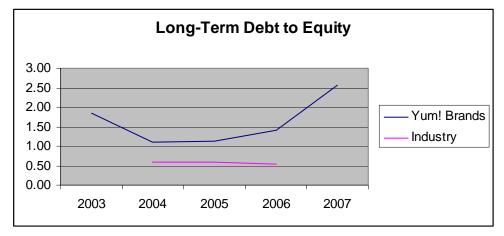


Exhibit 8a Diagram of Long-Term Debt to Equity

Exhibit 8b Trend Analysis of Long-Term Debt to Equity

Ratio	2003	2004	2005	2006	2007	Average	Comparison Comments
Yum! Brands	1.84	1.09	1.14	1.42	2.57	1.22	Unfavorable
Industry		0.59	0.58	0.54		0.57	

Capital Structure Analysis

A complete analysis of the capital structure of Yum! Brands, Inc. would not be complete without a comparison to industry competitors. For the purposes of this analysis CKE Restaurants, Inc. and McDonalds Corporation, Inc. are compared and contrasted with the subject organization. CKE Restaurants, Inc. operates or franchises over 3,000 Carl Jr's, Hardees, La Salsa, Red Burrito and Green Burrito restaurants. McDonalds is the industry leader. Each offers an interesting juxtaposition to Yum! Brands, Inc.

Target Capital Structure

The firms are not open with their target capital structure, but each demonstrates active management of this facet of their financial composition. In the 2007 financial reporting of CKE it reports, "[t]he company maintains... a solid capital structure, which improved significantly with this year's excellent results" (CKE Annual Report, 2007). The company continues, "[b]y any metric, our balance sheet continues to improve. During fiscal 2007 we reduced our long-term debt by \$81.4 million through voluntary repayments and the induced conversion of \$89.8 million of our convertible notes" (Ibid).

Yum! Brands uses 9% as its targeted weighted average cost of capital (Gopal, 2008). In addition, an analysis is performed here of the past five years of financial results in order to ascertain each firm's average capital structure over this timeframe. It is likely

that this blended average is an indicator of the capital structure that each firm is most comfortable with and thus indicates its actual targeted capital structure.

Exhibit 9a Comparison of Capital Structure of Yum Brands, CKE, Inc. and McDonald's Corporation at Market Value

Current Estin	nate of Capital S	Structure- Ma	arket Value			
(in thousands) Debt	YUM	% of Capital	CKE	% of Capital	MCD	% of Capital
Short-term	288,000	1.29%	6,823	0.63%	19,911,000	1.86%
Long-term	2,924,000	13.11%	185,439	17.18%	73,100,000	6.82%
Total Debt Equity	3,212,000	14.40%	192,262	17.81%	93,011,000	8.68%
Common	19,096,730	85.60%	887,423	82.19%	978,259,460	91.32%
Preferred	-	0%	-	0%	-	0%
Total Equity	19,096,730	85.60%	887,423	82.19%	978,259,460	91.32%
Total Capital	22,308,730		1,079,685		1,071,270,460	

Exhibit 9b Comparison of Capital Structure of Yum Brands, Inc., CKE, Inc., and McDonald's Corporation at Cost (Book Value)

Current Estir	nate of Capital S	Structure- Co	st/Book Value			
(in thousands) Debt	YUM	% of Capital	CKE	% of Capital	MCD	% of Capital
Short-term	288,000	7.76%	6,823	2.63%	19,911,000	18.16%
Long-term	2,924,000	78.79%	185,439	71.46%	73,100,000	66.69%
Total Debt Equity	3,212,000	86.55%	192,262	74.09%	93,011,000	84.85%
Common	499,000	13.45%	67,229	25.91%	16,606,000	15.15%
Preferred	-	0%	-	0%	-	0%
Total Equity	499,000	13.45%	67,229	25.91%	16,606,000	15.15%
Total Capital	3,711,000		259,491		109,617,000	

Exhibit 9c Yum! Brands Capital Structure Analysis

Yum! Brands Capital								
Structure	2007	2006	2005	2004	2003	Average	Percent	Percent
(in thousands) Debt							Book Value	Market Value
Short-term	288,000	227,000	211,000	11,000	10,000	149,400	6.70%	6.70%
Long-term Total	2,924,000	2,045,000	1,649,000	1,731,000	2,056,000	2,081,000	93.30%	93.30%
Book/Market Value of Debt	3,212,000	2,272,000	1,860,000	1,742,000	2,066,000	2,230,400		
Equity								
Common- cost Common-	499,000	530,000	556,000	580,000	584,000	549,800	100%	
market	19,096,730	31,164,000	26,065,280	27,364,400	19,003,360	24,538,754		100%
Preferred-cost Preferred-	0	0	0	0	0	0		
market Total Book	0	0	0	0	0	0		
Value of Equity	499,000	530,000	556,000	580,000	584,000	549,800		
Total Market Value of Equity Market value of co in 2007.	19,096,730 ommon stock is	31,164,000 computed as yea	26,065,280 ar end stock pric	27,364,400 e times outstand	19,003,360 ing shares. Tota	24,538,754 l shares adjusto	ed for 2-1 s	stock split

Exhibit 9d CKE, Inc. Capital Structure Analysis

CKE Capital Structure (in thousands) Debt	2007	2006	2005	2004	2003	Average	Percent Book Value	Percent Market Value
Short-term	6,823	14,207	16,066	33,871	35,089	21,211	7.91%	7.91%
Long-term	185,439	257,278	243,418	222,428	325,915	246,896	92.09%	92.09%
Total Book/Market Value of Debt	192,262	271,485	259,484	256,299	361,004	268,107		
Equity								
Common- cost	67,229	59,803	58,082	57,631	57,283	60,006	100%	
Common-market	887,423	1,100,375	7,847	836,226	366,038	639,582		100%
Preferred-cost	0	0	0	0	0	0		
Preferred-market	0	0	0	0		0		
Total Book Value of Equity	67,229	59,803	58,082	57,631	57,283	60,006		
Total Market Value of Equity	887,423	1,100,375	7,847	836,226	366,038	639,582		

Market value of common stock is computed as year end stock price times outstanding shares. Note: Book and Market Value of debt are stated as identical because they are relatively close in value and the company has not experienced a change in credit rating. Capital Leases, both short and long term are treated as debt.

Exhibit 9e McDonald's Corporation Capital Structure Analysis

Short-term	McDonalds Capital Structure (in thousands)	2007	2006	2005	2004	2003	Average	Percent Book Value	Percent Market Value
Long-term 73,100,000 83,899,000 89,343,000 83,573,000 93,425,000 84,668,000 87.10% 87.10% Total Book/Market Value of Debt 93,011,000 97,144,000 106,364,000 92,195,000 97,305,000 97,203,800	Debt								
Total Book/Market Value of Debt 93,011,000 97,144,000 106,364,000 92,195,000 97,305,000 97,203,800 Equity Common- cost Common- market 978,259,460 742,786,380 559,954,320 532,388,360 412,326,980 645,143,100 100% Preferred-cost Preferred-market 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Short-term	19,911,000	13,245,000	17,021,000	8,622,000	3,880,000	12,535,800	12.90%	12.90%
Total Book/Market Value of Debt 93,011,000 97,144,000 106,364,000 92,195,000 97,305,000 97,203,800 Equity Common- cost Common- market 978,259,460 742,786,380 559,954,320 532,388,360 412,326,980 645,143,100 100% Preferred-cost Preferred- market 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Long-term	73,100,000	83,899,000	89,343,000	83,573,000	93,425,000	84,668,000	87.10%	87.10%
Book/Market Value of Debt 93,011,000 97,144,000 106,364,000 92,195,000 97,305,000 97,203,800 Equity Common- cost Common- market 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 100% Preferred-cost Preferred- market 0 0 0 0 0 0 0 Total Book Value of Equity 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 Total Market Value of 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000	-								
Equity Common- cost									
Common- cost 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 100% Common-market 978,259,460 742,786,380 559,954,320 532,388,360 412,326,980 645,143,100 100% Preferred-cost Preferred-market 0 0 0 0 0 0 0 Total Book Value of Equity 16,606,000 16,60	Value of Debt	93,011,000	97,144,000	106,364,000	92,195,000	97,305,000	97,203,800		
Common- cost 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 100% Common-market 978,259,460 742,786,380 559,954,320 532,388,360 412,326,980 645,143,100 100% Preferred-cost Preferred-market 0 0 0 0 0 0 0 Total Book Value of Equity 16,606,000 16,60	Equity								
market 978,259,460 742,786,380 559,954,320 532,388,360 412,326,980 645,143,100 100% Preferred-cost Preferred-market 0		16,606,000	16,606,000	16,606,000	16,606,000	16,606,000	16,606,000	100%	
Preferred-cost 0 0 0 0 0 0 0 0 0 Preferred-market 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Common-								
Preferred- market 0 0 0 0 0 0 0 0 Total Book Value of Equity 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 Total Market Value of	market	978,259,460	742,786,380	559,954,320	532,388,360	412,326,980	645,143,100		100%
market 0 0 0 0 0 0 0 0 0 Total Book Value of Equity 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 Total Market Value of	Preferred-cost	0	0	0	0	0	0		
Total Book Value of Equity 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 Total Market Value of	Preferred-								
Value of Equity 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 Total Market Value of		0	0	0	0	0	0		
Equity 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 16,606,000 Total Market Value of									
Total Market Value of		16.606.000	16 606 000	1.5.50.5.000	16 606 000	1.5.50.5.000	1.6.60.6.000		
Value of		16,606,000	16,606,000	16,606,000	16,606,000	16,606,000	16,606,000		
		078 250 460	742 786 380	550 054 320	532 388 360	412 326 080	645 143 100		
Market value of common stock is computed as year end stock price times outstanding shares.	1 2	, ,	. , ,		, , , , , , , , , , , , , , , , , , ,	, ,	043,143,100		

Weighted Average Cost of Capital

A comparison of Yum! Brands, Inc.'s weighted average cost of capital (WACC) as compared to McDonalds and CKE, Inc. reveals a different strategy for each. These firms do not publish their targeted percentages for the different financing sources; however, it can be ascertained from its average over the five years as to what structure they are consistently running.

Cost of Debt Calculation

The three companies do not issue bonds. Each uses Senior Unsecured Notes for 30 year terms. For purposes of estimating WACC we will use the current rate on a 20-year bond for a AAA rated company. That rate is currently 6.67 percent (Yahoo.com, 2008). This is the before-tax component cost of debt. An estimate of the after tax component cost of debt follows:

Exhibit 10 Cost of Debt Calculation

Pre-Tax Cost of Debt	Tax Rate	After-Tax Component Cost of Debt
6.67%	40%	4.00%

Component Cost of Preferred Stock

The three companies do not issue preferred stock.

Estimating Component Cost of Common Equity (CAPM Approach)

Estimating the cost of common stock using the Capital Asset Pricing Model requires the risk free rate. As of the close of markets on April 16, 2008, the rate on a 10-year treasury bond was 3.696 (Yahoo Finance, 2008). The beta for Yum! Brands according to Standard and Poor's is 1.10 (2008). For purposes of this analysis we will use a market risk premium of 5% (Brigham and Ehrhardt, 2008). The CAPM calculation follows:

Exhibit 11: Cost of Equity Using CAPM

Company	Required Rate of Return	Risk Premium on Market	Beta	Cost of Equity
Yum! Brands	3.7	5%	1.56	11.50%
McDonalds	3.7	5%	1.58	11.60%
CKE, Inc.	3.7	5%	1.57	11.55%

Estimating Component Cost of Common Equity (DCF Approach)

The calculation of discounted cash flow (DCF) is determined using the current stock price, the current dividend and the expected growth rate for dividends. In this calculation we have used the stock values for each company as of the close of business on April 16, 2008. The current dividend is calculated using the annual dividend for 2007. Analysts forecasts are used to estimate future growth rates. Since Yum! Brands, McDonalds and CKE dividend growth cannot be estimated using dividend data, we have

substituted earnings growth rates (Brigham & Ehrhardt, 2008) using data from Zacks.com (2008). The results follow:

Exhibit 12: Cost of Equity- Discounted Cash Flows Approach

Company	Current Stock Price	Current Dividend	Expected Dividend Growth Rate	Required Rate of Return
Yum! Brands	38.68	\$ 0.45	12.2%	13.36%
McDonalds	57.33	\$ 0.15	12.00%	12.26%
CKE, Inc.	11.07	\$ 0.24	0.77%	2.94%

Bond Yield-Plus-Risk-Premium Approach

None of the three organizations issue bonds. As a substitute, we are using the AAA bond rate for a 20 year bond previously stated as 6.67%. It is worth noting that this formulation produces a judgmental estimate. It is intended to "get us in the right ballpark" (Brigham and Ehrhardt, 2008). The results follow:

Exhibit 13: Cost of Equity- Bond-Yield-Plus-Risk-Premium Approach

Company	Estimate		Required Rate of Return
Yum! Brands	6.67%	4%	10.7%
McDonalds	6.67%	4%	10.7%
CKE, Inc.	6.67%	5%	11.7%

Comparison of CAPM, DCF and Bond-Yield-Plus-Risk-Premium Approaches

It has been determined, after inspection, that the Capital Asset Pricing Model provides the best estimate for the return on common stock. This will be the number used as we analyze the WACC for each organization. In this case, the cost of equity for Yum! Brands, Inc. is 11.50%.

Weighted Average Cost of Capital Using Market-Based Capital Weights

Calculating Yum! Brands, Inc.'s weighted average cost of capital requires the results of the evaluation of the target proportions of debt and equity as well as the component cost of capital. As noted earlier, there are no indications in the firm's

financials as to the target proportions so a historical average is used with the assumption that the company has actively sought to maintain that as its intended targets. The results of the calculation follows:

Exhibit 14: Weighted Average Cost of Capital Calculation Factors

Category	Value
Weight of Debt	8.68%
Rate of Debt	4%
Inverse of Tax Rate	
(1-T)	0.6
Weight of Common	
Equity	91.32%
Rate of Stock	11.50%
WACC	10.71%

Cash Flow Estimation

Yum! Brands is considering a new project. The project has a life of eight years. The initial investment is \$120 million to purchase land, construct a building and purchase equipment, and \$8 million for shipping and installation costs. The fixed assets fall into the 7-year MACRS class. The salvage value of fixed assets is \$30 million. The number of units of the new product expected to be sold in the first year is 800,000 and the expected growth rate is eight percent. The sales price is \$200 per unit and the variable cost is \$150 per unit in the first year. Each will need to be adjusted accordingly based on the estimated annualized inflation rate of three percent. The required net operating working capital (NOWC) is 12 percent of sales. Yum! Brands is in the 40 percent tax bracket. The WACC obtained above of 10.71% will be used as the discount rate.

Exhibit 17A: Analysis of Expansion Project (Sales and Units Sold in 000's)

Ye	ars 0 2008	1 2009	2 2010	3 2011	4 2012	5 2013	6 2014	7 2015	8 2016
Investment Outlays: Lor	ng-Term Assets								
Building	(\$128,000)								
Operating Cash Flows of Units sold Sales	ver the Project's Lif	800 200.00	864 206.00	933 212.18	1,008 218.55	1,088 225.10	1,175 231.85	1,269 238.81	1,371 245.97
price									
Sales revenue		160,000	177,984	197,989	220,243	244,999	272,537	303,170	337,246
Variable costs		120,000	133,488	148,492	165,183	183,749	204,402	227,377	252,935

Depreciation	Depreciation		32,000	21,760	16,640	11,520	11,520	11,520	5,120
Oper. income before taxes (EBIT)		22,080	12,496	27,737	38,421	49,730	56,614	64,272	79,192
Taxes on operating income (40%	<u>ó</u>)	8,832	4,998	11,095	15,368	19,892	22,646	25,709	31,677
Net operating profit after taxes (NOPAT)	13,248	7,498	16,642	23,053	29,838	33,968	38,563	47,515
Add back depreciation		17,920	32,000	21,760	16,640	11,520	11,520	11,520	5,120
Operating cash flow		\$31,168	\$39,498	\$38,402	\$39,693	\$41,358	\$45,488	\$50,083	\$52,635
Cash Flows Due to Net Opera	ating Working C	Capital							
Net operating working capital (based on sales)	\$19,200	\$21,358	\$23,759	\$26,429	\$29,400	\$32,704	\$36,380	\$40,470	\$0
Cash flow due to investment in NOWC	(\$19,200)	(\$2,158)	(\$2,401)	(\$2,670)	(\$2,971)	(\$3,305)	(\$3,676)	(\$4,089)	\$40,470
Salvage Cash Flows:	Long-Term Ass	sets							
Net salvage cash flow									\$18,000
Net cash flow (Time line of cash flows)	(\$128,000)	\$ 50,368	\$ 60,856	\$ 62,161	\$ 66,122	\$ 70,758	\$ 78,193	\$ 86,464	\$ 93,104

Note: See Excel attachment under sheet "Cash Flow Estimation" for formulas for this and other calculations.

Exhibit 17 B: Salvage Calculation (in 000's)

Market Value When	
Salvaged	\$30,000
Book Value When Salvaged	0
Expected Gain (Loss)	30,000
Taxes Paid (or credit)	12,000
Net Cash Flow from Salvage	\$18,000

Exhibit 17 C: Depreciation Schedule (in 000's)

	1	2	3	4	5	6	7	8	Cumulative Depreciation
Year	2009	2010	2011	2012	2013	2014	2015	2016	
Depreciation Rate	14%	25%	17%	13%	9%	9%	9%	4%	
Depreciation	17,920	32,000	21,760	16,640	11,520	11,520	11,520	5,120	128,000
Ending Book Value	\$110,080	\$ 78,080	\$ 56,320	\$ 39,680	\$ 28,160	\$ 16,640	\$ 5,120	\$ -	

Evaluation of Expansion Project

A calculation of net present value (NPV), internal rate of return (IRR), modified internal rate of return (MIRR), profitability index (PI), payback period and discounted payback period are used to gain perspective on the viability of the expansion project.

Based on net present value, this project should be undertaken. NPV is the most reliable of the analysis tools. The NPV is positive therefore it is calculated to be a profitable venture. The internal rate of return also demonstrates that this project is a worthy venture. The cost of capital is considerable less than the internal rate of return. The modified internal rate of return also shows a profitable venture even considering reinvestment at the project's internal rate of return. Also, there are no unusual cash flows to make the MIRR calculation necessary. The profitability index indicates that this project should return \$2.76 for every dollar invested.

Exhibit 18 A: Evaluating Cash Flows

NPV	\$225,651.92
IRR	46%
MIRR	26%
PI	2.76

The payback periods analysis indicates that the firm can expect the investment to produce positive cash flows in 2.28 years. Considering the discount rate the investment will take slightly longer at 2.54 years.

Exhibit 18 B: Evaluating Cash Flows Using Payback Periods (in 000's)

Cumulative Cash Flow for Payback			Years						
	0	1	2	3	4	5	6	7	8
Portion of Year Required for Payback		(77,632)	(16,776)	45,385	111,507	182,264	260,457	346,921	440,025
Payback		1.00	1.00	0.28	0.00	0.00	0.00	0.00	0.00
Payback Period 2.2	28								
Discounted Cash Flow for Payback			Years						
•	0	1	2	3	4	5	6	7	8
Cumulative Cash Flow for Payback		45,495	49,651	45,810	44,015	42,544	42,466	42,416	41,255
Portion of Year Required for Payback		(82,505)	(32,854)	12,956	56,971	99,515	141,981	184,397	225,652
Payback		1.00	1.00	0.54	0.00	0.00	0.00	0.00	0.00
Discounted Payback 2.5	54								

A risk assessment is the final step to determine whether the chance of the calculated positive income is likely. In order to determine risk, a sensitivity analysis and a scenario analysis are processed as follows:

Exhibit 19 A: Scenario Analysis (NPV in 000's)

%				%		
Deviation	WACC			Deviation	1st YEAR UN	IT SALES
from		NPV		from	Units	NPV
Base Case		225,652		Base Case	Sold	225,652
-30%	7.5%	\$275,388		-30%	560	\$130,418
-15%	9.1%	\$249,304		-15%	680	\$178,035
			Base			
0%	10.71%	\$225,652	Case	0%	800	\$225,652
15%	12.3%	\$204,155		15%	920	\$273,269
30%	13.9%	\$184,575		30%	1,040	\$320,886

% Deviation	VARIABLE COSTS				% Deviation	GROWTH UNIT	· · · · · · · · · · · · · · · · · · ·
from	Variable		NPV		from	Growth	NPV
Base Case	Cost		225,652		Base Case		225,652
-30%	\$	105.00	\$384,376		-30%	2.1%	\$200,030
-15%	\$	127.50	\$305,014		-15%	2.6%	\$212,728
				Base			
0%	\$	150.00	\$225,652	Case	0%	3.00%	\$225,652
15%	\$	172.50	\$146,290		15%	3.5%	\$238,804
30%	\$	195.00	\$66,928		30%	3.9%	\$252,189

%				
Deviation		SALES PRI	CE	
from		Sales	NPV	
Base Case			225,652	
-30%	\$ 140.00		-\$28,306	
-15%	\$	170.00	\$98,673	
				Base
0%	\$	200.00	\$225,652	Case
15%	\$	230.00	\$352,631	
30%	\$	260.00	\$479,610	

Exhibit 19 B: Net Present Value at Different Deviations from Base (in 000's)

Deviation	NPV at Different Deviations from Base						
from	Sales	Variable	Growth	Year 1			
Base Case	Price	Cost/Unit	Rate	Units Sold	WACC		
-30%	(\$28,306)	\$384,376	\$200,030	\$130,418	\$275,388		
-15%	\$98,673	\$305,014	\$212,728	\$178,035	\$249,304		
0%	\$225,652	\$225,652	\$225,652	\$225,652	\$225,652		
15%	\$352,631	\$146,290	\$238,804	\$273,269	\$204,155		
30%	\$479,610	\$66,928	\$252,189	\$320,886	\$184,575		
Range	\$507,916	\$317,448	\$52,159	\$190,469	\$90,813		

References

- Brigham, E., Ehrhardt, M. (2008) *Financial management*. Thomson Southwestern. Mason, OH. p. 350.
- CKE Annual Reports. 2003-2007Annual Reports. Retrieved from http://phx.corporate-ir.net/phoenix.zhtml?c=117249&p=irol-irHome. April 3, 2008.
- McDonalds Annual Reports. 2003-2007 Annual Reports. Retrieved fromhttp://www.mcdonalds.com/corp/invest.html. April 3, 2008.
- Reuters Company Research (2008) *Yum! Brands, Inc.* Reuters Portfolio Snapshot. [Pamphlet].
- Reuters Company Research (2008) *McDonalds Corporation*. Reuters Portfolio Snapshot. [Pamphlet].
- Standard & Poor's. (2008). *Stock report: Yum! Brands, Inc.* The Mc Graw-Hill Companies. New York, NY.
- Standard & Poor's. (2008). *Stock report: McDonalds Corporation*. The Mc Graw-Hill Companies. New York, NY.
- Yahoo.com (2008). *Composite bond rates: bond center*. Retrieved from http://finance.yahoo.com/bonds/composite bond rates. April 17, 2008.
- Yahoo Finance (2008). *10-year treasury note*. Retrieved from http://finance.yahoo.com/q?s=%5ETNX. April 17, 2008.
- Yahoo Finance (2008). *McDonalds: key statistics*. Retrieved from http://finance.yahoo.com/q/ks?s=MCD.
- Yum! Brands, Inc. *Annual reports 2003-2007*. Retrieved from http://www.yum.com/investors/default.asp . April 2, 2008.
- Zacks.com (2008). *Yum! Brands, inc.* Retrieved from http://www.zacks.com/research/report.php?type=estimates&t=YUM