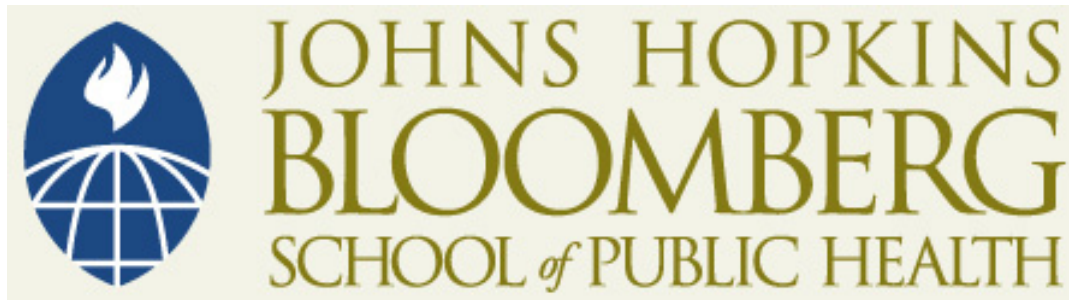


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Figure 14.3 Consumption-Based Forecast for an East Caribbean Country 6 month order

Drug	Step 1			Steps 2 & 3		Step 4		Stock on Hand (BU)	Stock on Order (BU)	Step 5	Step 6	Step 7	Step 8	Order Quantity (Packs)	Step 10	
	Strength	BU	Pack Size	Total use in Period (BU)	Days Out of Stock	Adj Avg Mo.ly Use (BU)	Safety Stock Level (BU)			Sugg'd Quantity to Order (BU)	Adj for Consumption Changes	Adj Order Quantity	Probable Pack Price (\$USD)		Value of Proposed Order	
Ampicillin	500 mg	capsule	1000	59500	0	9917	32000	42000	29750	45000			50737	51	69.3	3534.3
Ampicillin	250 mg	capsule	1000	89000	34	18218	81000	58000	54654	79617	81608		89769	90	35.1	3159
Ampicillin sodium injection	500 mg	ampoule	100	3879	0	647	111	7600	1940	48			53	1	29.95	29.95
Ampicillion suspension 100 mL	125 mg/5 mL	bottle	1	4128	0	688	1513	3000	2064	3743			4220	4220	0.75	3165
Antihistamine decongestant elixir	250 mL	bottle	1	853	29	169	351	929	507	747			843	843	1.57	1323.51
Antihistamine decongestant (any)	-----	tablet	500	50000	0	8333	0	62500	25000	37500			42281	85	12	1020
Basitracin antibiotic ointment	-----	tube	1	2414	31	484	34000	100	1453	-28288			2608	2608	0.54	1408.32
Bendrofluazide	5 mg	tablet	500	141500	30	28208	142000	50000	84623	146491			165168	330	1.9	627
Benzathine benzylpenicillin injection	2.4 M.U.	ampoule	50	1318	0	220	1486	0	659	1150			1297	26	25	650
Cephradine injection	500 mg	ampoule	100	2695	0	449	2300	1100	1348	1991			2244	22	75	1650
Chlorhexidine gluconate solution (Hibitan)	5%	liter	5	302	0	50	433	0	151	171			192	38	17.95	682.1
Chlorhexidine/centrimide (Savlon)	5 liter	liter	5	438	0	73	418	250	219	208			235	47	14.7	690.9
Chlorpropamide	250mg	tablet	1000	162000	0	27000	169000	0	81000	155000			174763	175	8.99	1573.25
Cimetidine (Tagamet) injection	200 mg	ampoule	10	1090	0	182	2580	0	545	-400			0	0	8.36	0
Cimetidine	400 mg	tablet	1000	24000	0	4000	23500	25000	12000	-500			0	0	42	0
Cloxacillin suspension 100 mL	125 mg/5 mL	bottle	1	882	0	147	1446	0	441	318			359	359	1	359
Cotrimoxazole suspension 100 MI	00/40 mg/5 m	bottle	1	1152	0	192	374	1930	576	0			0	0	0.75	0
Cotrimoxazole	400/80 mg	tablet	1000	81000	0	13500	82000	0	40500	80000			90200	90	21	1890
Dextrose in saline (IV) 1000 mL	5% / 0.9%	bottle	1	1525	32	308	0	2288	924	1408			1588	1588	1.35	2143.8

Figure 14.3 Consumption-Based Forecast for an East Caribbean Country 6 Months Order

$$Q_0 = C_A * (LT + PP) + SS - (S_1 + S_0)$$

Drug	Step 1		Steps 2 & 3	Step 4		Stock on Hand (BU)	Stock on Order (BU)	Step 5	Step 6	Step 7	Step 8	Order Quantity (Packs)	Probable Pack Price (\$USD)	Value of Proposed Order	
	Strength	BU		Pack Size	Total use in Period (BU)			Days Out of Stock	Adj Avg Mo.Jy Use (BU)	Safety Stock Level (BU)	Sugg'd Quantity to Order (BU)				Adj for Consumption Changes
Ampicillin	500 mg	capsule	1,000.00	59,500.00	0.00	9,916.67	32,000.00	42,000.00	29,750.00	45,000.00	50,737.00	51.00	69.30	\$3,534.00	
Ampicillin	250 mg	capsule	1,000.00	89,000.00	34.00	18,218	81,000	58,000.00	54,654.36	79,617	81,607.89	89,769	90.00	35.10	3,159.00
Ampicillin sodium injection	500 mg	ampoule	100.00	3,879.00	0.00	646.50	111.00	7,600.00	1,940.00	47.50	53.00	1.00	29.95	29.95	
Ampicillin suspension 100 mL	125 mg/5 mL	bottle	1.00	4,128.00	0.00	688.00	1,513.00	3,000.00	2,064.00	3,743.00	4,220.00	4,220.00	0.75	3,165.00	
Antihistamine decongestant elixir	250 mL	bottle	1.00	853.00	29.00	168.94	351.00	929.00	507.00	747.44	843.00	843.00	1.57	1,323.51	
Antihistamine decongestant (any)	500.00	tablet	500.00	50,000.00	0.00	8,333.33	0.00	62,500.00	25,000.00	37,500.00	42,281.00	85.00	12.00	1,020.00	
Basitracin antibiotic ointment	-----	tube	1.00	2,414.00	31.00	484.39	34,000.00	100.00	1,453.00	-28,287.51	2,608.00	2,608.00	0.54	1,408.32	
Bendrofluazide	5 mg	tablet	500.00	141,500.00	30.00	28,207.52	142,000.00	50,000.00	84,623.00	146,490.65	165,168.00	330.00	1.90	627.00	
Benzathine benzylpenicillin injection	2.4 M.U.	ampoule	50.00	1,318.00	0.00	219.67	1,486.00	0.00	659.00	1,150.00	1,297.00	26.00	25.00	650.00	
Cephadrine injection	500 mg	ampoule	100.00	2,695.00	0.00	449.17	2,300.00	1,100.00	1,348.00	1,990.50	2,244.00	22.00	75.00	1,650.00	
Chlorhexidine gluconate solution (Hibitan)	5%	liter	5.00	302.00	0.00	50.33	433.00	0.00	151.00	171.00	192.00	38.00	17.95	682.10	
Chlorhexidine/centrimide (Savlon)	5 liter	liter	5.00	438.00	0.00	73.00	418.00	250.00	219.00	208.00	235.00	47.00	14.70	690.90	
Chlorpropamide	250mg	tablet	1,000.00	162,000.00	0.00	27,000.00	169,000.00	0.00	81,000.00	155,000.00	174,763.00	175.00	8.99	1,573.25	
Cimetidine (Tagamet) injection	200 mg	ampoule	10.00	1,090.00	0.00	181.67	2,580.00	0.00	545.00	-400.00	0.00	0.00	8.36	0.00	
Cimetidine	400 mg	tablet	1,000.00	24,000.00	0.00	4,000.00	23,500.00	25,000.00	12,000.00	-500.00	0.00	0.00	42.00	0.00	
Cloxacillin suspension 100 mL	125 mg/5 mL	bottle	1.00	882.00	0.00	147.00	1,446.00	0.00	441.00	318.00	359.00	359.00	1.00	359.00	
Cotrimoxazole suspension 100 MI	00/40 mg/5 m	bottle	1.00	1,152.00	0.00	192.00	374.00	1,930.00	576.00	0.00	0.00	0.00	0.75	0.00	
Cotrimoxazole	400/80 mg	tablet	1,000.00	81,000.00	0.00	13,500.00	82,000.00	0.00	40,500.00	80,000.00	90,200.00	90.00	21.00	1,890.00	
Dextrose in saline (IV) 1000 mL	5% / 0.9%	bottle	1.00	1,525.00	32.00	308.03	0.00	2,288.00	924.00	1,408.27	1,588.00	1,588.00	1.35	\$2,143.80	

\$23,906.13

Cell Names
 Adjusted Average Monthly Use = G5
 Total Period Use = E5
 Stock on Hand = H5
 Stock on Order = I5
 Days Out of Stock = F5
 Order_Quant_Packs = N5
 Pack Price = O5
 Ampicillin_250_Value = P5

Probable Pack Price	Value of Order
	\$3,159
\$34	
\$35	
\$36	
\$37	