Edible Oil Blending Worksheet — Math 335

Dr. R. Beezer — Spring 1999

Consider the attached description of a problem involving the blending of edible oils into a final baking product (like Crisco, for example). Put yourself in the shoes of the plant's production manager and create the best possible production schedule you can.

Use the worksheet below to track the storage requirements, to check on the hardness of your blended product each month and to total up your sales and expenses. Compute the totals at the bottom of the sheet and email these to me before 8 A.M. on the day of our next class. My email address is `beezer@ups.edu` — please use Edible Oil as the subject line of your message. Please turn in your written worksheet in class. Additional copies of the worksheet can be found on the course WWW page.

		VEG 1	**VEG 2**	**OIL 1**	**OIL 2**	**OIL 3**	Revenues/ Costs ($)	Blended Hardness
	Hardness	8.8	6.1	2.0	4.2	5.0		
	Stored (tons)	500	500	500	500	500		
January	Purchase (tons)							
	Blend (tons)							
	Stored(tons)							
February	Purchase (tons)							
	Blend (tons)							
	Stored(tons)							
March	Purchase (tons)							
	Blend (tons)							
	Stored(tons)							
April	Purchase (tons)							
	Blend (tons)							
	Stored(tons)							
May	Purchase (tons)							
	Blend (tons)							
	Stored(tons)							
June	Purchase (tons)							
	Blend (tons)							
	Stored(tons)							

Totals Revenue: Purchase Costs: Storage Costs: Profit:

Name: