

Table 8.2 Shipping Data for P & T Co.

		Shipping Cost (\$) per Truckload				Output
		Warehouse				
		1	2	3	4	
Cannery	1	464	513	654	867	75
	2	352	416	690	791	125
	3	995	682	388	685	100
Allocation		80	65	70	85	

Standard LP Form of the Transportation Problem

$$\text{Minimize } Z = \sum_{i=1}^m \sum_{j=1}^n c_{ij} x_{ij}$$

s.t.

$$\sum_{j=1}^n x_{ij} = s_i \quad \text{for } i = 1, 2, \dots, m$$

$$\sum_{i=1}^m x_{ij} = d_j \quad \text{for } j = 1, 2, \dots, n$$

and

$$x_{ij} \geq 0 \quad \text{for all } i \text{ and } j$$

Table 8.8 Cost & Req. - Northern Airplane Co.

		Cost per Unit Distributed				Supply
		Destination				
		1	2	3	4	
Source	1	1.080	1.095	1.110	1.125	?
	2	?	1.110	1.125	1.140	?
	3	?	?	1.100	1.115	?
	4	?	?	?	1.113	?
Demand		10	15	25	20	

Table 8.9 Cost & Req. - Northern Airplane Co.

		Cost per Unit Distributed					Supply
		Destination					
		1	2	3	4	5(D)	
Source	1	1.080	1.095	1.110	1.125	0	25
	2	M	1.110	1.125	1.140	0	35
	3	M	M	1.100	1.115	0	30
	4	M	M	M	1.113	0	10
Demand		10	15	25	20	30	

Table 8.10 Water Resources - Metro Water District

	Cost per Acre Foot				Supply
	B	LD	SG	H	
Columbo R.	16	13	22	17	50
Sacron R.	14	13	19	15	60
Calorie R.	19	20	23	--	50
Min.	30	70	0	10	
Req.	50	70	30	?	

Table 8.12 Cost & Req. - Metro Water District

		Cost per Unit Distributed					Supply
		Destination					
		B-m	B-x	LD	SG	H	
Source	CR	16	16	13	22	17	50
	SR	14	14	13	19	15	60
	CR	19	19	20	23	M	50
	4D	M	0	M	0	0	50
Demand		30	20	70	30	60	