

*** LINEAR PROGRAMMING ***

PROBLEM NAME: Nutrifeed Hog Diet

Min Z= 0.12 X1 + 0.07 X2

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- (1) 200 X1 + 100 X2 >= 3000
 (2) 200 X1 + 300 X2 >= 4000
 (3) 100 X1 + 200 X2 >= 2000

SOLUTION:

ITERATION NUMBER 5

VARIABLE MIX	SOLUTION
X1	12.500
Slack 3	250.000
X2	5.000
Z	1.850

SENSITIVITY ANALYSIS:

CONSTRAINTS:

CONSTRAINT NUMBER	TYPE OF CONSTRAINT	SHADOW PRICE	RANGE OF RHS FOR WHICH SHADOW PRICE IS VALID
1	>=	0.001	1333.3333 -- 4000.
2	>=	0.000	3666.6667 -- 9000.
3	>=	0.000	-INF -- 2250.

NOTE: THE SHADOW PRICE REPRESENTS THE AMOUNT Z WOULD
 CHANGE IF A CONSTRAINT'S RHS CHANGED ONE UNIT.

DECISION VARIABLES:

NONBASIC VARIABLE	AMOUNT Z IS REDUCED (MAX) OR INCREASED (MIN) FOR ONE UNIT OF X IN THE SOLUTION
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