- $x_1$ acres of land devoted to wheat

- $x_2$ acres of land devoted to corn

- $x_3$ acres of land devoted to sugar beets

- $w_1$ tons of wheat sold

- $w_2$ tons of corn sold

- $w_3$ tons of sugar beets sold at a favorable price

- $w_4$ tons of sugar beets sold at the lower price

- $y_1$ tons of wheat purchased

- $y_2$ tons of corn purchased

$$\min 150x_1 + 230x_2 + 260x_3 + 238y_1 - 170w_1 + 210y_2 - 150w_2 - 36w_3 - 10w_4$$

Subject to:

$$x_1 + x_2 + x_3 \leq 500,$$
$$2.5x_1 + y_1 - w_1 \geq 200,$$
$$3x_2 + y_2 - w_2 \geq 240,$$
$$w_3 + w_4 \leq 20x_3,$$
$$w_3 \leq 6000,$$
$$x_1, x_2, x_3, w_1, w_2, w_3, w_4, y_1, y_2 \geq 0,$$