

$$\begin{aligned}
& \text{Maximize } p_1 d_1 + p_2 d_2 - (c_1 r_1 + c_2 r_2 + c_3 d_1 + c_4 d_2) \\
& \text{Subject to: } 0.9955 a_1 r_1 + 0.98 a_2 r_2 - a_3 d_3 - a_4 d_4 \geq 0 \\
& \qquad \qquad \qquad t_1^M d_1 + t_2^M d_2 \leq \text{MPH} \\
& \qquad \qquad \qquad t_1^E d_1 + t_2^E d_2 \leq \text{EH} \\
& \qquad \qquad \qquad r_1 + r_2 \leq \text{S} \\
& \qquad \qquad \qquad c_1 r_1 + c_2 r_2 + c_3 d_1 + c_4 d_2 \leq \text{B} \\
& \qquad \qquad \qquad d_1, d_2 \geq 0 \\
& \qquad \qquad \qquad r_1, r_2 \geq 0
\end{aligned}$$