

# Estimators

# Estimates

I	II	III
×	✓	×
✓	✓	✓
✓	×	×
✓	✓	✓
✓	✓	×
×	✓	✓
✓	×	✓
✓	✓	✓

#1  $CIV(W_t|P_t \rightarrow D_t|\emptyset)$

#2  $CIV(W_t|P_t \rightarrow D_t|\{W_{t-s}\}_{s=1}^{50})$

#3  $CIV(W_t|P_t \rightarrow D_t|D_{t-1})$

#4  $CIV(W_t|P_t \rightarrow D_t|\{W_{t-s}, P_{t-s}, D_{t-s}\}_{s=1}^{50})$

#5  $CIV(\{W_{t-s}\}_{s=0}^{50} |(P_t, D_{t-1}) \rightarrow D_t|\emptyset)$

#6  $CIV(\{W_{t-s}\}_{s=0}^{50} |(\{P_{t-s}\}_{s=0}^1 \rightarrow D_t|\emptyset)$

#7  $CIV(\{W_{t-s}\}_{s=0}^{50} |(\{P_{t-s}\}_{s=0}^1 \rightarrow D_t|D_{t-1})$

#8  $CIV(\{W_{t-s}\}_{s=0}^{50} |(\{P_{t-s}\}_{s=0}^1, D_{t-1}) \rightarrow D_t|\emptyset)$

estimated elasticity



Own-price elasticity ( $P_t \rightarrow D_t$ )



Cross-price elasticity ( $P_{t-1} \rightarrow D_t$ )