

## Recycling Formula

$W$ , the amount of recyclables collected in any one hour is equal to,  $V_{t \text{ alum}}$ , the volume of aluminum collected in one hour, times  $\gamma$ , the specific gravity of aluminum, divided by  $\nu$ , the specific volume of water; plus  $V_{t \text{ plastic}}$ , the volume of plastic collected in one hour, times  $\gamma$ , the specific gravity of plastic, times  $\rho$ , the density of water; plus  $V_{t \text{ paper}}$ , the volume of paper collected in one hour, times  $\rho$ , the density of paper.

Now the summation of that,  $\sigma$ , from  $t$  equals zero to  $t$  equals 24 hours, gives you the weight of recyclables collected in a day.