

Residential Multi-Vehicle Route Capacity Planning



Residential routes workload optimisation

Wish there was an easier way to calculate workloads for multiple trucks across zones in a day of service, and where there may be different population densities, truck capacities travel distances?

Good news. There is! This Wastedge module provides management and operations planning staff with a fantastic modelling toolset.

It takes into account truck volume capacity and compaction ratios, as well as truck weight limits. **Travel time can be calculated/projected** based on time factors per lift, and transit speeds based on the number of lifts in each area plus the time/distance to tip and from depot. It also allows for driver-fatigue breaks and tipping, clean-up and refuel times.

These functions are **great for pre-planning new domestic contracts and preparing alternative winter/summer routes** per waste stream. This tool even **facilitates periodical reviews** as populations grow and move within day-of-service boundaries, and as new shopping/transport hubs emerge over the life of a council collection contract.

Main features...



Key benefits



- Helps balance travel and workloads
- Avoids single vehicle wear-out
- Allocates work fairly
- Decreases travel time and fuel costs
- Reduces overtime payroll costs
- Maximises collection capacity
- Reduces new contract plan effort
- Eliminates planning guesswork

Additional features...



- Easy to import resident addresses
- Easy to import resident and park bins
- Easy to draw collection zones
- Collections assigned/counted automatically
- Pickup times calculated automatically
- Auto-projects travel distance/time
- Predicts time/lifts to truck capacity
- Suggests zone grouping to balance travel and lift times across the available vehicles
- Modelling includes truck volume capacity, average number of lifts per minute in regional or high density areas, and average speed of transit or while lifting bins to project number of trucks or time required.

Put your business on the map today!

Visit www.wastedge.com or call: 02 9499 6222