

ORGANOPHOSPHORUS PESTICIDE AIR MONITORING PROJECT: PRELIMINARY RESULTS

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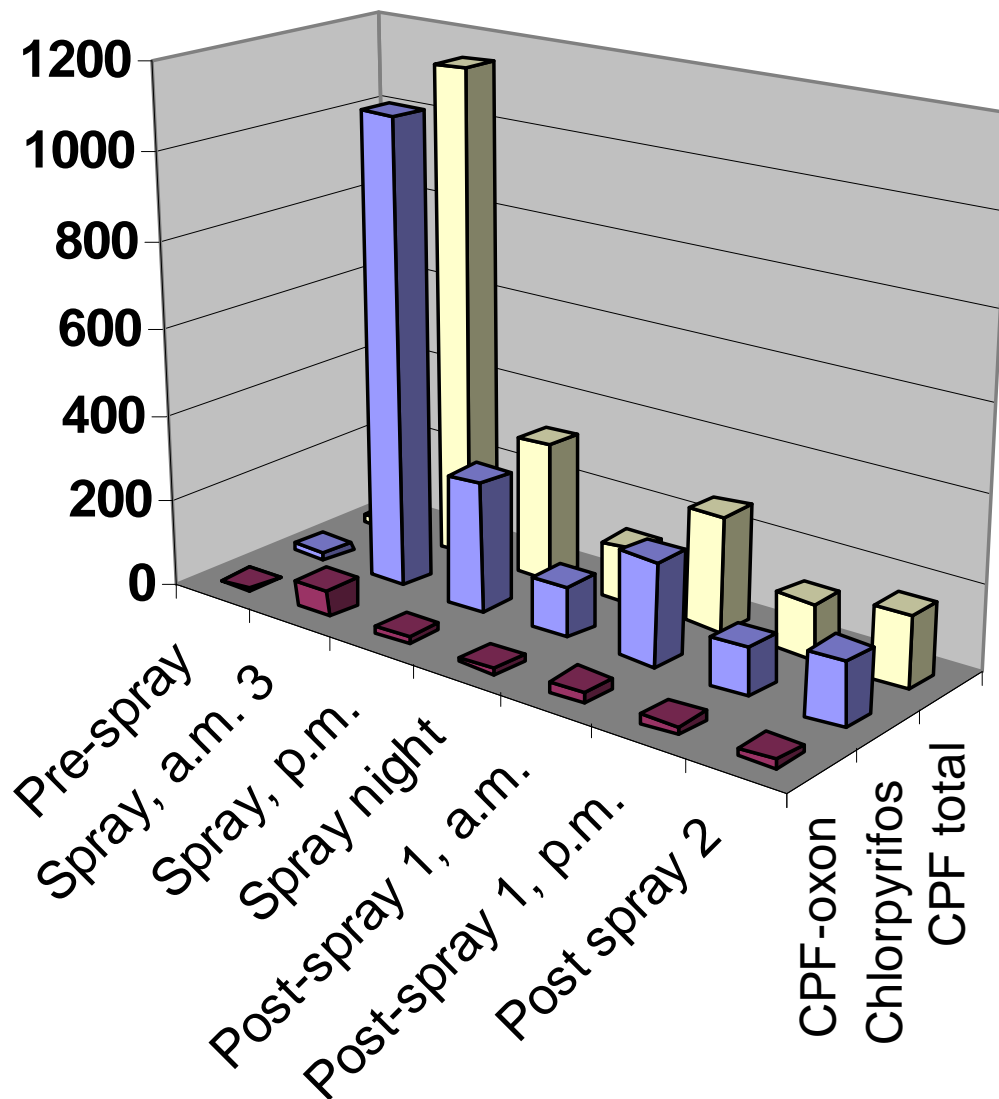
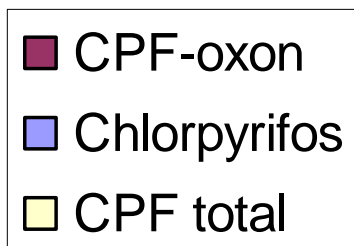
Box 357234 Seattle, WA 98195

Background

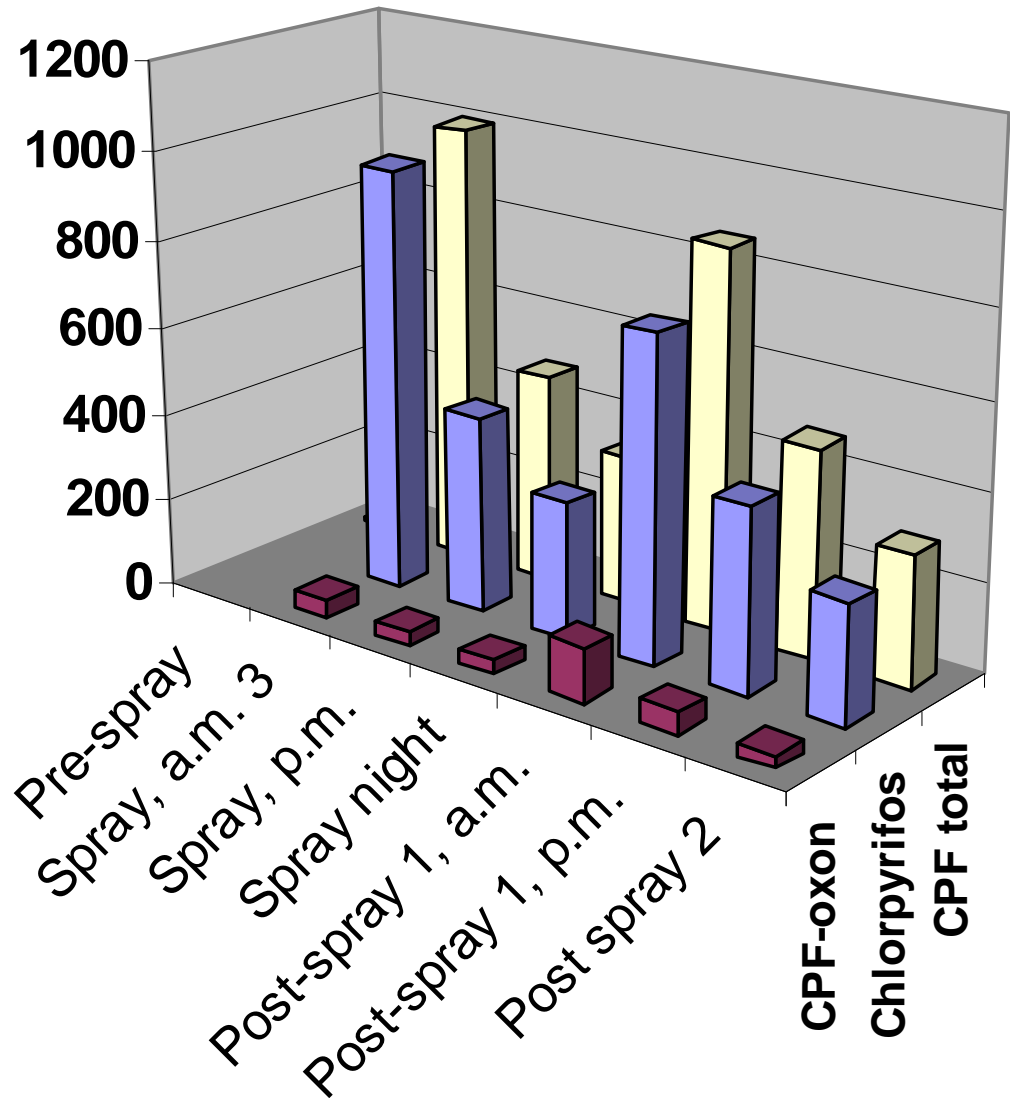
- DOH contracted with UW to measure air concentrations of OP pesticides in WA
- Phase 1: March-April 2008
 - Sampled 2 regions, N. Central, Yakima Valley
- Phase 2: June-July 2008
 - Sampled 1 region, Yakima Valley
- Perimeter: (~8/12/24-hr) samples, <10 m
- Receptor: (24-hr) samples, < 100 m
- Ambient: (24-hr) samples, > 500 m

Perimeter Phase 1: North Central Region

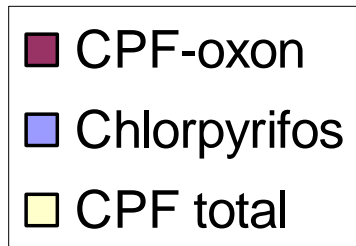
**CDPR ASL =
1,200 ng/m³**



Perimeter Phase 1: Yakima Valley Region

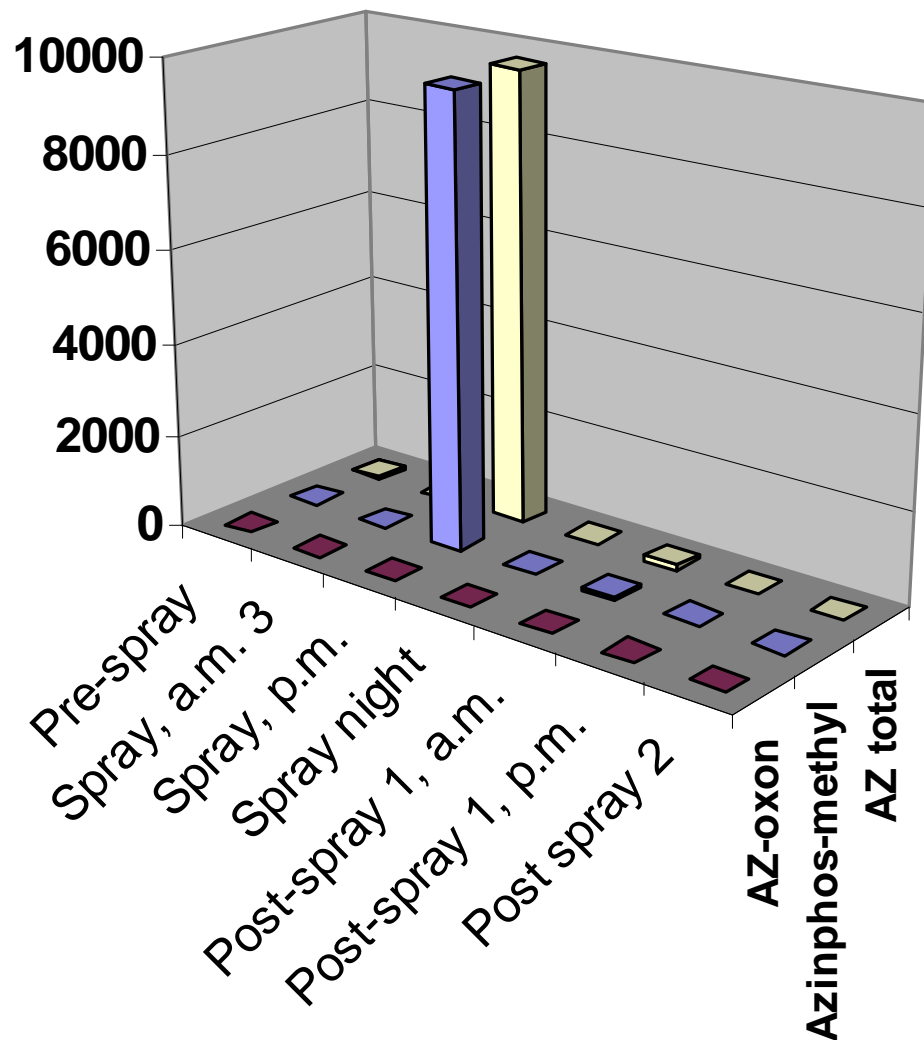
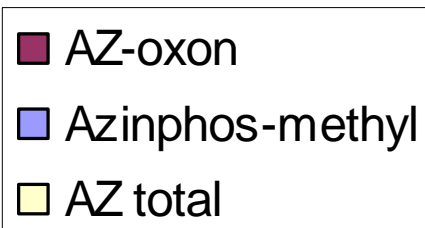


**CDPR ASL =
1,200 ng/m³**

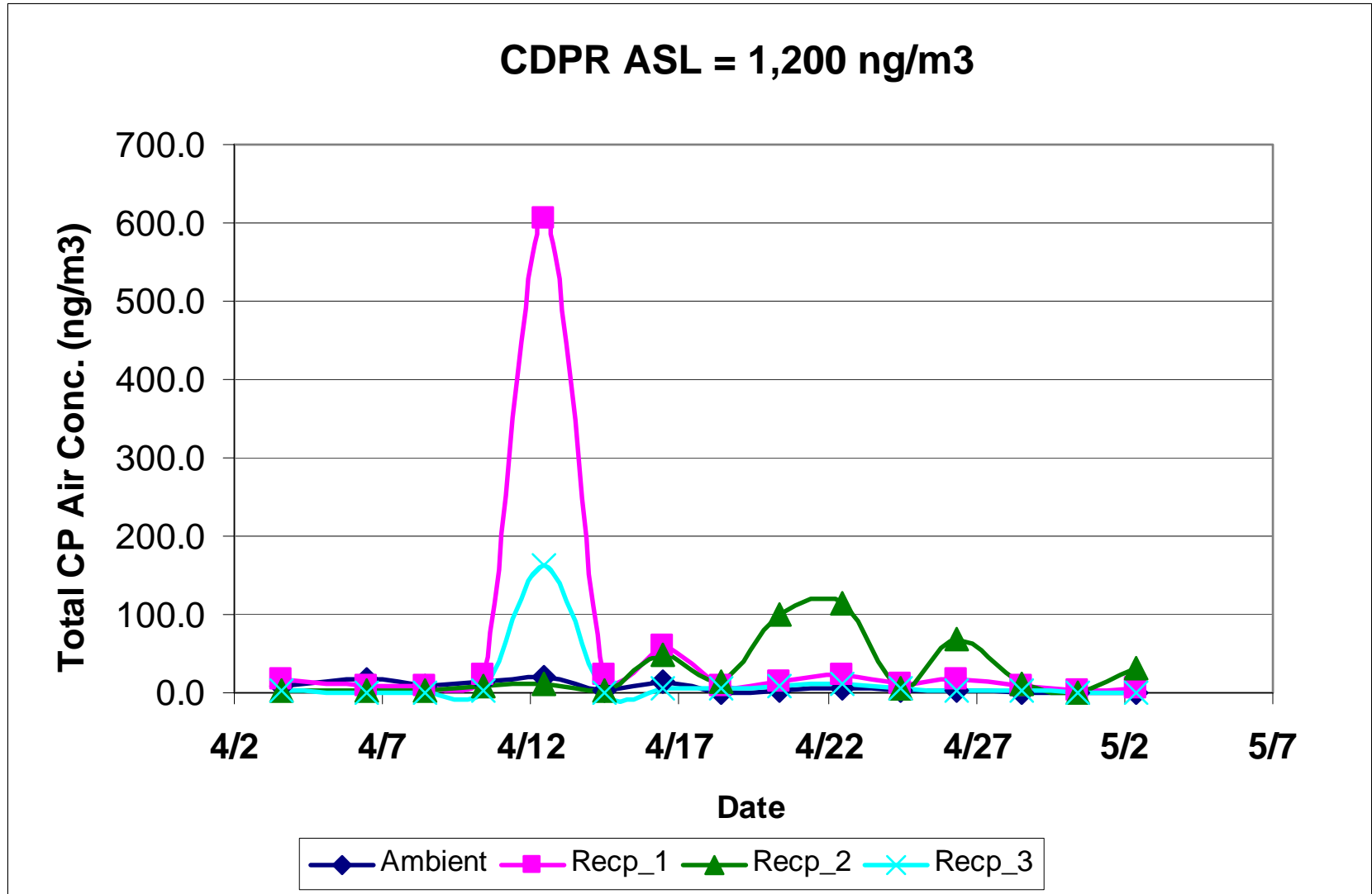


Perimeter Phase 2: Yakima Valley Region

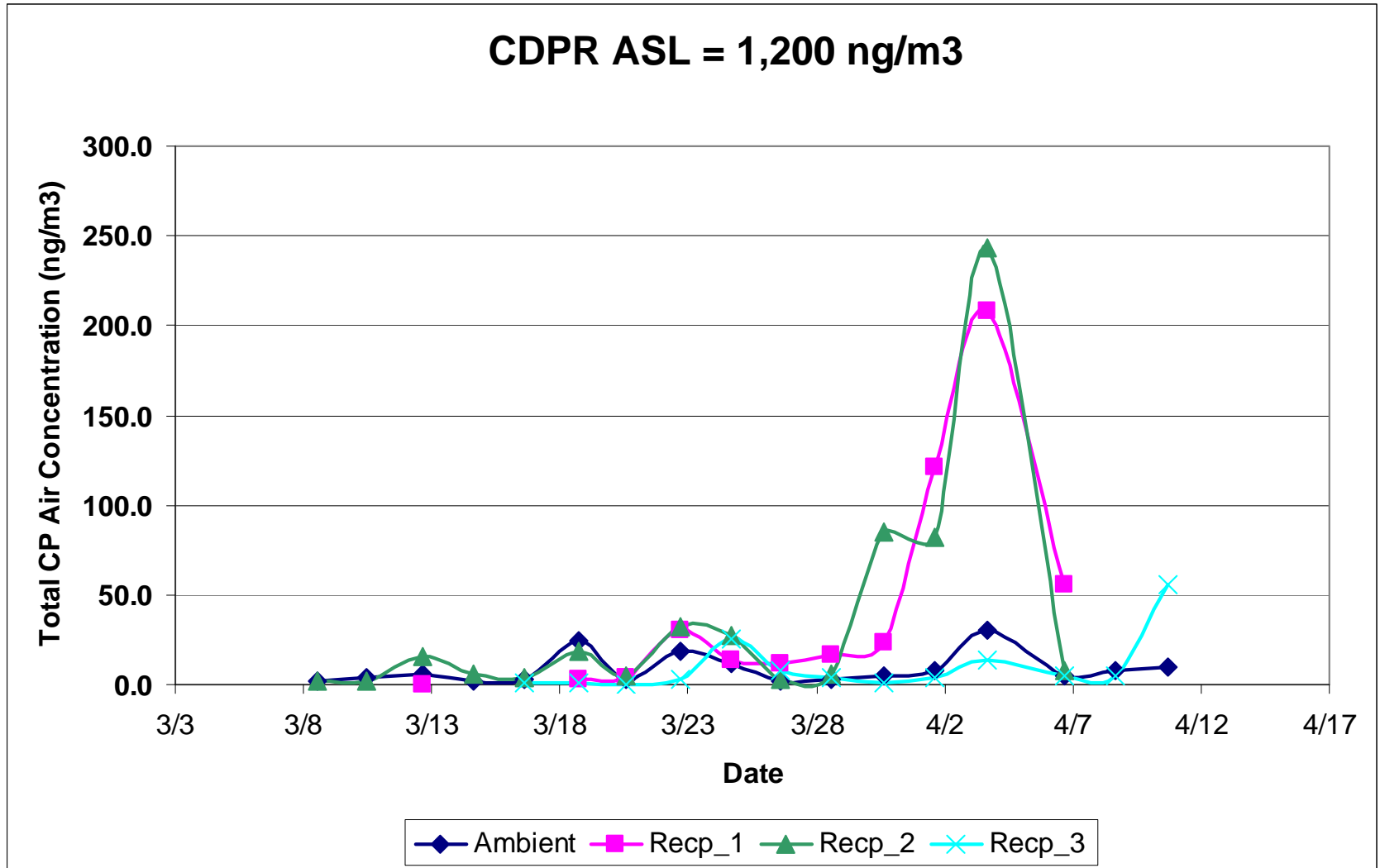
**EPA ASL =
5,000 ng/m³
CDPR ASL =
101,000 ng/m³**



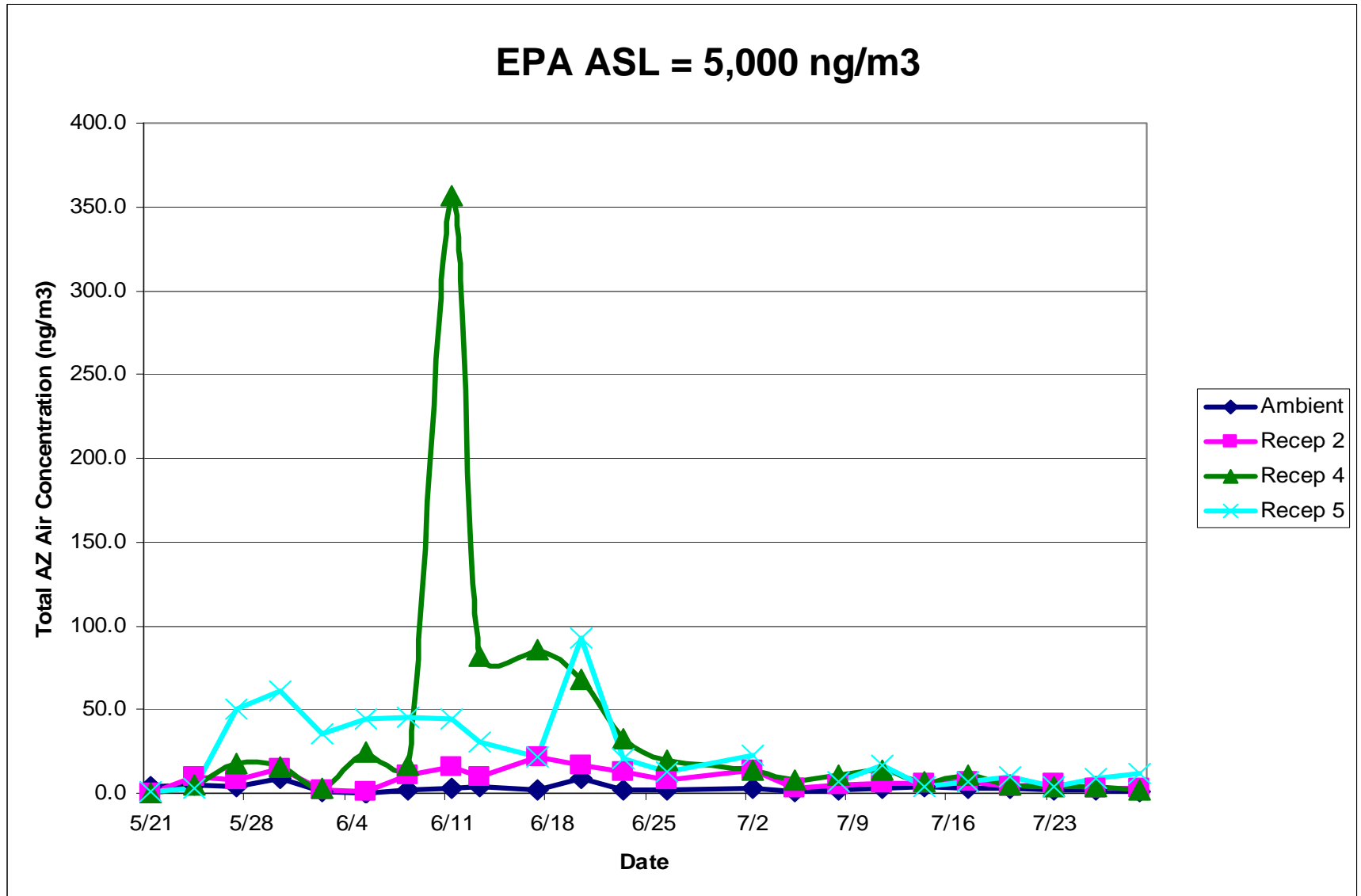
CP Receptor Values: N. Central



CP Receptor Values: Yakima Valley



AZ Receptor Values: Yakima Valley



Summary

- **None of the 24-hour samples exceeded the California DPR or USEPA screening levels.**
- Max 24-hour chlorpyrifos level was 607 ng/m³ compared to an acute screening level of 1,200 ng/m³
- Max 24-hour azinphos-methyl level was 356 ng/m³ compared to CA acute screening level of 101,000 ng/m³ or USEPA screening level of 5,000 ng/m³
- Max 8-Hr perimeter Azinphos-methyl level during spraying was 9,658 ng/m³; this exceeded the EPA screening level, but is 10x below CA screening level