

Table 1: Detail Results of Bee_VRPSTW for Problem Instances R2-01 to R2-06
(Number of Customer = 100, Vehicle Capacity = 1,000)

| Problem Instances | Result Type | Plan: 1 | Plan: 2 | Plan: 3 |
|-------------------------|-------------|--------------------------|-------------------------|--------------------------|
| R2_01 (V = 4) | <i>avg</i> | TTC = 968.314,%WB = 7.4 | TTC = 954.278,%WB = 7.8 | TTC = 917.592,%WB = 7.3 |
| | <i>min</i> | TTC = 910.716,%WB = 6.9 | TTC = 914.716,%WB = 6.9 | TTC = 886.698,%WB = 7.0 |
| | <i>max</i> | TTC = 1031.827,%WB = 8.6 | TTC = 989.310,%WB = 8.0 | TTC = 1009.852,%WB = 8.3 |
| | <i>med</i> | TTC = 967.824,%WB = 7.2 | TTC = 956.721,%WB = 8.0 | TTC = 914.784,%WB = 7.2 |
| R2_02 (V = 3) | <i>avg</i> | TTC = 947.211,%WB = 6.2 | TTC = 943.222,%WB = 6.5 | TTC = 931.070,%WB = 6.4 |
| | <i>min</i> | TTC = 842.053,%WB = 5.0 | TTC = 861.790,%WB = 5.8 | TTC = 923.261,%WB = 6.7 |
| | <i>max</i> | TTC = 1026.068,%WB = 7.6 | TTC = 970.033,%WB = 7.5 | TTC = 953.741,%WB = 6.5 |
| | <i>med</i> | TTC = 947.824,%WB = 6.2 | TTC = 956.721,%WB = 6.8 | TTC = 940.784,%WB = 6.8 |
| R2_03 (V = 3) | <i>avg</i> | TTC = 856.707,%WB = 5.1 | TTC = 834.405,%WB = 5.4 | TTC = 834.405,%WB = 5.4 |
| | <i>min</i> | TTC = 777.352,%WB = 4.0 | TTC = 769.420,%WB = 4.2 | TTC = 828.751,%WB = 5.0 |
| | <i>max</i> | TTC = 905.421,%WB = 6.6 | TTC = 888.498,%WB = 6.2 | TTC = 847.512,%WB = 5.7 |
| | <i>med</i> | TTC = 847.824,%WB = 5.0 | TTC = 836.721,%WB = 5.5 | TTC = 840.784,%WB = 5.6 |
| R2_04 (V = 2) | <i>avg</i> | TTC = 773.662,%WB = 3.4 | TTC = 775.662,%WB = 3.4 | TTC = 773.662,%WB = 3.4 |
| | <i>min</i> | TTC = 759.558,%WB = 3.7 | TTC = 773.662,%WB = 3.4 | TTC = 773.662,%WB = 3.4 |
| | <i>max</i> | TTC = 864.393,%WB = 5.2 | TTC = 779.109,%WB = 3.4 | TTC = 773.662,%WB = 3.4 |
| | <i>med</i> | TTC = 777.638,%WB = 3.5 | TTC = 780.276,%WB = 3.8 | TTC = 775.209,%WB = 3.5 |
| R2_05 (V = 3) | <i>avg</i> | TTC = 927.829,%WB = 7.0 | TTC = 967.613,%WB = 7.5 | TTC = 945.430,%WB = 7.7 |
| | <i>min</i> | TTC = 889.370,%WB = 6.3 | TTC = 916.573,%WB = 7.3 | TTC = 941.128,%WB = 7.1 |
| | <i>max</i> | TTC = 1024.741,%WB = 8.0 | TTC = 999.513,%WB = 7.8 | TTC = 989.763,%WB = 7.7 |
| | <i>med</i> | TTC = 827.256,%WB = 7.0 | TTC = 956.7,%WB = 7.2 | TTC = 940.784,%WB = 7.5 |
| R2_06 (V = 3) | <i>avg</i> | TTC = 847.121,%WB = 5.9 | TTC = 877.384,%WB = 6.3 | TTC = 865.719,%WB = 5.6 |
| | <i>min</i> | TTC = 782.620,%WB = 4.0 | TTC = 821.217,%WB = 5.4 | TTC = 826.995,%WB = 5.2 |
| | <i>max</i> | TTC = 963.197,%WB = 6.7 | TTC = 909.899,%WB = 6.5 | TTC = 879.956,%WB = 5.9 |
| | <i>med</i> | TTC = 847.824,%WB = 6.0 | TTC = 866.721,%WB = 6.0 | TTC = 860.784,%WB = 5.2 |

Table 2: Detail Results of Bee_VRPSTW for Problem Instances R2-07 to R2-11
 (Number of Customer = 100, Vehicle Capacity = 1,000)

| Problem Instances | Result Type | Plan: 1 | Plan: 2 | Plan: 3 |
|-------------------------|-------------|-------------------------|-------------------------|-------------------------|
| R2_07 (V = 2) | <i>avg</i> | TTC = 832.099,%WB = 5.0 | TTC = 827.401,%WB = 4.9 | TTC = 822.401,%WB = 4.8 |
| | <i>min</i> | TTC = 822.401,%WB = 4.8 | TTC = 822.401,%WB = 4.8 | TTC = 822.401,%WB = 4.8 |
| | <i>max</i> | TTC = 953.703,%WB = 6.4 | TTC = 832.099,%WB = 5.0 | TTC = 822.401,%WB = 4.8 |
| | <i>med</i> | TTC = 827.82,%WB = 4.8 | TTC = 826.1,%WB = 5.0 | TTC = 824.004,%WB = 5.0 |
| R2_08 (V = 2) | <i>avg</i> | TTC = 743.445,%WB = 3.6 | TTC = 743.445,%WB = 2.8 | TTC = 743.445,%WB = 2.8 |
| | <i>min</i> | TTC = 722.845,%WB = 2.7 | TTC = 743.445,%WB = 2.8 | TTC = 743.445,%WB = 2.8 |
| | <i>max</i> | TTC = 713.674,%WB = 4.2 | TTC = 743.445,%WB = 2.8 | TTC = 743.445,%WB = 2.8 |
| | <i>med</i> | TTC = 743.445,%WB = 3.6 | TTC = 743.445,%WB = 2.8 | TTC = 743.445,%WB = 2.8 |
| R2_09 (V = 3) | <i>avg</i> | TTC = 862.452,%WB = 6.5 | TTC = 831.036,%WB = 6.0 | TTC = 837.869,%WB = 6.5 |
| | <i>min</i> | TTC = 806.453,%WB = 5.1 | TTC = 808.712,%WB = 5.1 | TTC = 811.718,%WB = 5.7 |
| | <i>max</i> | TTC = 906.269,%WB = 7.1 | TTC = 875.979,%WB = 6.6 | TTC = 870.849,%WB = 6.6 |
| | <i>med</i> | TTC = 872.004,%WB = 6.8 | TTC = 836.721,%WB = 6.2 | TTC = 840.784,%WB = 6.7 |
| R2_10 (V = 3) | <i>avg</i> | TTC = 828.498,%WB = 5.8 | TTC = 859.929,%WB = 6.4 | TTC = 847.749,%WB = 6.2 |
| | <i>min</i> | TTC = 792.310,%WB = 5.8 | TTC = 798.339,%WB = 4.7 | TTC = 798.339,%WB = 4.7 |
| | <i>max</i> | TTC = 940.578,%WB = 7.3 | TTC = 928.184,%WB = 7.1 | TTC = 894.980,%WB = 6.2 |
| | <i>med</i> | TTC = 827.824,%WB = 5.8 | TTC = 856.721,%WB = 6.3 | TTC = 840.784,%WB = 5.8 |
| R2_11 (V = 2) | <i>avg</i> | TTC = 671.890,%WB = 7.8 | TTC = 671.890,%WB = 7.8 | TTC = 671.890,%WB = 7.8 |
| | <i>min</i> | TTC = 671.890,%WB = 7.8 | TTC = 671.890,%WB = 7.8 | TTC = 671.890,%WB = 7.8 |
| | <i>max</i> | TTC = 671.890,%WB = 7.8 | TTC = 671.890,%WB = 7.8 | TTC = 671.890,%WB = 7.8 |
| | <i>med</i> | TTC = 675.24,%WB = 8.0 | TTC = 676.721,%WB = 8.0 | TTC = 680.784,%WB = 8.1 |