

Clearinghouses for Two-Sided Matching: An Experimental Study

F. Echenique A.J. Wilson L. Yariv

Caltech

NYU

Caltech

Market Tables

Treatment A Round 1

Market (V)

W-F, marginals 20-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (270,275) | (190,275) | (210,375) | (230,325) | (170,175) | (290,25) | (150,375) | (250,375) |
| W ₂ | (270,75) | (250,175) | (290,175) | (230,375) | (210,375) | (150,375) | (190,325) | (170,25) |
| W ₃ | (210,375) | (230,375) | (290,275) | (150,125) | (170,275) | (270,75) | (190,75) | (250,175) |
| W ₄ | (210,25) | (190,125) | (290,225) | (270,275) | (230,125) | (170,175) | (250,125) | (150,225) |
| W ₅ | (270,175) | (210,25) | (230,75) | (190,225) | (250,225) | (290,225) | (150,175) | (170,325) |
| W ₆ | (210,325) | (270,75) | (150,125) | (250,25) | (230,75) | (290,125) | (190,225) | (170,75) |
| W ₇ | (250,225) | (210,225) | (190,25) | (150,175) | (170,25) | (230,275) | (270,25) | (290,125) |
| W ₈ | (270,125) | (210,325) | (230,325) | (250,75) | (170,325) | (150,325) | (190,275) | (290,275) |

Treatment A Round 2

Market (V) Deviation 1

F-W, marginals 50-50

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (260,315) | (60,315) | (360,165) | (10,165) | (160,315) | (310,365) | (210,265) | (110,315) |
| F_2 | (260,115) | (160,265) | (360,215) | (110,115) | (10,165) | (60,315) | (210,165) | (310,165) |
| F_3 | (360,165) | (160,365) | (260,365) | (210,365) | (60,215) | (110,15) | (10,115) | (310,215) |
| F_4 | (310,215) | (360,215) | (110,15) | (260,315) | (210,115) | (10,265) | (160,15) | (60,265) |
| F_5 | (160,65) | (360,165) | (260,65) | (110,215) | (210,265) | (60,215) | (10,65) | (310,65) |
| F_6 | (10,365) | (360,15) | (60,315) | (160,65) | (210,365) | (110,165) | (260,215) | (310,15) |
| F_7 | (360,15) | (310,115) | (60,115) | (110,265) | (160,15) | (210,115) | (10,315) | (260,115) |
| F_8 | (360,265) | (10,65) | (160,265) | (210,15) | (310,65) | (60,65) | (110,365) | (260,365) |

Treatment A Round 3

Market (V)

W-F, marginals 50-20

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (310,260) | (110,260) | (160,300) | (210,280) | (60,220) | (360,160) | (10,300) | (260,300) |
| W ₂ | (310,180) | (260,220) | (360,220) | (210,300) | (160,300) | (10,300) | (110,280) | (60,160) |
| W ₃ | (160,300) | (210,300) | (360,260) | (10,200) | (60,260) | (310,180) | (110,180) | (260,220) |
| W ₄ | (160,160) | (110,200) | (360,240) | (310,260) | (210,200) | (60,220) | (260,200) | (10,240) |
| W ₅ | (310,220) | (160,160) | (210,180) | (110,240) | (260,240) | (360,240) | (10,220) | (60,280) |
| W ₆ | (160,280) | (310,180) | (10,200) | (260,160) | (210,180) | (360,200) | (110,240) | (60,180) |
| W ₇ | (260,240) | (160,240) | (110,160) | (10,220) | (60,160) | (210,260) | (310,160) | (360,200) |
| W ₈ | (310,200) | (160,280) | (210,280) | (260,180) | (60,280) | (10,280) | (110,260) | (360,260) |

Treatment A Round 4

Market (V) Deviation 1

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (315,260) | (115,260) | (165,360) | (215,310) | (65,160) | (365,10) | (15,360) | (265,360) |
| W ₂ | (315,60) | (265,160) | (365,160) | (215,360) | (165,360) | (15,360) | (115,310) | (65,10) |
| W ₃ | (165,360) | (215,360) | (365,260) | (15,110) | (65,260) | (315,60) | (115,60) | (265,160) |
| W ₄ | (165,10) | (115,110) | (365,210) | (315,260) | (215,110) | (65,160) | (265,110) | (15,210) |
| W ₅ | (315,160) | (165,10) | (215,60) | (115,210) | (265,210) | (365,210) | (15,160) | (65,310) |
| W ₆ | (365,310) | (315,60) | (15,110) | (265,10) | (215,60) | (165,110) | (115,210) | (65,60) |
| W ₇ | (265,210) | (165,210) | (115,10) | (15,160) | (65,10) | (215,260) | (315,10) | (365,110) |
| W ₈ | (315,110) | (165,310) | (215,310) | (265,60) | (65,310) | (15,310) | (115,260) | (365,260) |

Treatment A Round 5

Market (V)

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (310,275) | (110,275) | (160,375) | (210,325) | (60,175) | (360,25) | (10,375) | (260,375) |
| W ₂ | (310,75) | (260,175) | (360,175) | (210,375) | (160,375) | (10,375) | (110,325) | (60,25) |
| W ₃ | (160,375) | (210,375) | (360,275) | (10,125) | (60,275) | (310,75) | (110,75) | (260,175) |
| W ₄ | (160,25) | (110,125) | (360,225) | (310,275) | (210,125) | (60,175) | (260,125) | (10,225) |
| W ₅ | (310,175) | (160,25) | (210,75) | (110,225) | (260,225) | (360,225) | (10,175) | (60,325) |
| W ₆ | (160,325) | (310,75) | (10,125) | (260,25) | (210,75) | (360,125) | (110,225) | (60,75) |
| W ₇ | (260,225) | (160,225) | (110,25) | (10,175) | (60,25) | (210,275) | (310,25) | (360,125) |
| W ₈ | (310,125) | (160,325) | (210,325) | (260,75) | (60,325) | (10,325) | (110,275) | (360,275) |

Treatment A Round 6

Market (V)

W-F, marginals 20-20

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (270,260) | (190,260) | (210,300) | (230,280) | (170,220) | (290,160) | (150,300) | (250,300) |
| W ₂ | (270,180) | (250,220) | (290,220) | (230,300) | (210,300) | (150,300) | (190,280) | (170,160) |
| W ₃ | (210,300) | (230,300) | (290,260) | (150,200) | (170,260) | (270,180) | (190,180) | (250,220) |
| W ₄ | (210,160) | (190,200) | (290,240) | (270,260) | (230,200) | (170,220) | (250,200) | (150,240) |
| W ₅ | (270,220) | (210,160) | (230,180) | (190,240) | (250,240) | (290,240) | (150,220) | (170,280) |
| W ₆ | (210,280) | (270,180) | (150,200) | (250,160) | (230,180) | (290,200) | (190,240) | (170,180) |
| W ₇ | (250,240) | (210,240) | (190,160) | (150,220) | (170,160) | (230,260) | (270,160) | (290,200) |
| W ₈ | (270,200) | (210,280) | (230,280) | (250,180) | (170,280) | (150,280) | (190,260) | (290,260) |

Treatment A Round 7

Market (V)

F-W, marginals 20-50

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (260,310) | (180,310) | (300,160) | (160,160) | (220,310) | (280,160) | (240,260) | (200,310) |
| F_2 | (260,110) | (220,260) | (300,210) | (200,110) | (160,160) | (180,310) | (240,160) | (280,160) |
| F_3 | (300,160) | (220,360) | (260,360) | (240,360) | (180,210) | (200,10) | (160,110) | (280,210) |
| F_4 | (280,210) | (300,210) | (200,10) | (260,310) | (240,110) | (160,260) | (220,10) | (180,260) |
| F_5 | (220,60) | (300,160) | (260,60) | (200,210) | (240,260) | (180,210) | (160,60) | (280,60) |
| F_6 | (160,360) | (300,10) | (180,310) | (220,60) | (240,360) | (200,360) | (260,210) | (280,10) |
| F_7 | (300,10) | (280,110) | (180,110) | (200,260) | (220,10) | (240,110) | (160,310) | (260,110) |
| F_8 | (300,260) | (160,60) | (220,260) | (240,10) | (280,60) | (180,60) | (200,360) | (260,360) |

Treatment A Round 8

Market (V)

F-W, marginals 20-20

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (260,270) | (180,270) | (300,210) | (160,210) | (220,270) | (280,210) | (240,250) | (200,270) |
| F_2 | (260,190) | (220,250) | (300,230) | (200,190) | (160,210) | (180,270) | (240,210) | (280,210) |
| F_3 | (300,210) | (220,290) | (260,290) | (240,290) | (180,230) | (200,150) | (160,190) | (280,230) |
| F_4 | (280,230) | (300,230) | (200,150) | (260,270) | (240,190) | (160,250) | (220,150) | (180,250) |
| F_5 | (220,170) | (300,210) | (260,170) | (200,230) | (240,250) | (180,230) | (160,170) | (280,170) |
| F_6 | (160,290) | (300,150) | (180,270) | (220,170) | (240,290) | (200,290) | (260,230) | (280,150) |
| F_7 | (300,150) | (280,190) | (180,190) | (200,250) | (220,150) | (240,190) | (160,270) | (260,190) |
| F_8 | (300,250) | (160,170) | (220,250) | (240,150) | (280,170) | (180,170) | (200,290) | (260,290) |

Treatment A Round 9

Market (V)

F-W, marginals 50-20

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (275,270) | (75,270) | (375,210) | (25,210) | (175,270) | (325,210) | (225,250) | (125,270) |
| F_2 | (275,190) | (175,250) | (375,230) | (125,190) | (25,210) | (75,270) | (225,210) | (325,210) |
| F_3 | (375,210) | (175,290) | (275,290) | (225,290) | (75,230) | (125,150) | (25,190) | (325,230) |
| F_4 | (325,230) | (375,230) | (125,150) | (275,270) | (225,190) | (25,250) | (175,150) | (75,250) |
| F_5 | (175,170) | (375,210) | (275,170) | (125,230) | (225,250) | (75,230) | (25,170) | (325,170) |
| F_6 | (25,290) | (375,150) | (75,270) | (175,170) | (225,290) | (125,290) | (275,230) | (325,150) |
| F_7 | (375,150) | (325,190) | (75,190) | (125,250) | (175,150) | (225,190) | (25,270) | (275,190) |
| F_8 | (375,250) | (25,170) | (175,250) | (225,150) | (325,170) | (75,170) | (125,290) | (275,290) |

Treatment A Round 10

Market (V)

F-W, marginals 50-50

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (275,310) | (75,310) | (375,160) | (25,160) | (175,310) | (325,160) | (225,260) | (125,310) |
| F_2 | (275,110) | (175,260) | (375,210) | (125,110) | (25,160) | (75,310) | (225,160) | (325,160) |
| F_3 | (375,160) | (175,360) | (275,360) | (225,360) | (75,210) | (125,10) | (25,110) | (325,210) |
| F_4 | (325,210) | (375,210) | (125,10) | (275,310) | (225,110) | (25,260) | (175,10) | (75,260) |
| F_5 | (175,60) | (375,160) | (275,60) | (125,210) | (225,260) | (75,210) | (25,60) | (325,60) |
| F_6 | (25,360) | (375,10) | (75,310) | (175,60) | (225,360) | (125,360) | (275,210) | (325,10) |
| F_7 | (375,10) | (325,110) | (75,110) | (125,260) | (175,10) | (225,110) | (25,310) | (275,110) |
| F_8 | (375,260) | (25,60) | (175,260) | (225,10) | (325,60) | (75,60) | (125,360) | (275,360) |

Treatment A Round 11

Market (V)

W-F, marginals 20-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (270,275) | (190,275) | (210,375) | (230,325) | (170,175) | (290,25) | (150,375) | (250,375) |
| W ₂ | (270,75) | (250,175) | (290,175) | (230,375) | (210,375) | (150,375) | (190,325) | (170,25) |
| W ₃ | (210,375) | (230,375) | (290,275) | (150,125) | (170,275) | (270,75) | (190,75) | (250,175) |
| W ₄ | (210,25) | (190,125) | (290,225) | (270,275) | (230,125) | (170,175) | (250,125) | (150,225) |
| W ₅ | (270,175) | (210,25) | (230,75) | (190,225) | (250,225) | (290,225) | (150,175) | (170,325) |
| W ₆ | (210,325) | (270,75) | (150,125) | (250,25) | (230,75) | (290,125) | (190,225) | (170,75) |
| W ₇ | (250,225) | (210,225) | (190,25) | (150,175) | (170,25) | (230,275) | (270,25) | (290,125) |
| W ₈ | (270,125) | (210,325) | (230,325) | (250,75) | (170,325) | (150,325) | (190,275) | (290,275) |

Treatment A Round 12

Market (V) Deviation 1

F-W, marginals 50-50

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (260,315) | (60,315) | (360,165) | (10,165) | (160,315) | (310,365) | (210,265) | (110,315) |
| F_2 | (260,115) | (160,265) | (360,215) | (110,115) | (10,165) | (60,315) | (210,165) | (310,165) |
| F_3 | (360,165) | (160,365) | (260,365) | (210,365) | (60,215) | (110,15) | (10,115) | (310,215) |
| F_4 | (310,215) | (360,215) | (110,15) | (260,315) | (210,115) | (10,265) | (160,15) | (60,265) |
| F_5 | (160,65) | (360,165) | (260,65) | (110,215) | (210,265) | (60,215) | (10,65) | (310,65) |
| F_6 | (10,365) | (360,15) | (60,315) | (160,65) | (210,365) | (110,165) | (260,215) | (310,15) |
| F_7 | (360,15) | (310,115) | (60,115) | (110,265) | (160,15) | (210,115) | (10,315) | (260,115) |
| F_8 | (360,265) | (10,65) | (160,265) | (210,15) | (310,65) | (60,65) | (110,365) | (260,365) |

Treatment A Round 13

Market (V)

W-F, marginals 50-20

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (310,260) | (110,260) | (160,300) | (210,280) | (60,220) | (360,160) | (10,300) | (260,300) |
| W ₂ | (310,180) | (260,220) | (360,220) | (210,300) | (160,300) | (10,300) | (110,280) | (60,160) |
| W ₃ | (160,300) | (210,300) | (360,260) | (10,200) | (60,260) | (310,180) | (110,180) | (260,220) |
| W ₄ | (160,160) | (110,200) | (360,240) | (310,260) | (210,200) | (60,220) | (260,200) | (10,240) |
| W ₅ | (310,220) | (160,160) | (210,180) | (110,240) | (260,240) | (360,240) | (10,220) | (60,280) |
| W ₆ | (160,280) | (310,180) | (10,200) | (260,160) | (210,180) | (360,200) | (110,240) | (60,180) |
| W ₇ | (260,240) | (160,240) | (110,160) | (10,220) | (60,160) | (210,260) | (310,160) | (360,200) |
| W ₈ | (310,200) | (160,280) | (210,280) | (260,180) | (60,280) | (10,280) | (110,260) | (360,260) |

Treatment A Round 14

Market (V) Deviation 1

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (315,260) | (115,260) | (165,360) | (215,310) | (65,160) | (365,10) | (15,360) | (265,360) |
| W ₂ | (315,60) | (265,160) | (365,160) | (215,360) | (165,360) | (15,360) | (115,310) | (65,10) |
| W ₃ | (165,360) | (215,360) | (365,260) | (15,110) | (65,260) | (315,60) | (115,60) | (265,160) |
| W ₄ | (165,10) | (115,110) | (365,210) | (315,260) | (215,110) | (65,160) | (265,110) | (15,210) |
| W ₅ | (315,160) | (165,10) | (215,60) | (115,210) | (265,210) | (365,210) | (15,160) | (65,310) |
| W ₆ | (365,310) | (315,60) | (15,110) | (265,10) | (215,60) | (165,110) | (115,210) | (65,60) |
| W ₇ | (265,210) | (165,210) | (115,10) | (15,160) | (65,10) | (215,260) | (315,10) | (365,110) |
| W ₈ | (315,110) | (165,310) | (215,310) | (265,60) | (65,310) | (15,310) | (115,260) | (365,260) |

Treatment A Round 15

Market (V)

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (310,275) | (110,275) | (160,375) | (210,325) | (60,175) | (360,25) | (10,375) | (260,375) |
| W ₂ | (310,75) | (260,175) | (360,175) | (210,375) | (160,375) | (10,375) | (110,325) | (60,25) |
| W ₃ | (160,375) | (210,375) | (360,275) | (10,125) | (60,275) | (310,75) | (110,75) | (260,175) |
| W ₄ | (160,25) | (110,125) | (360,225) | (310,275) | (210,125) | (60,175) | (260,125) | (10,225) |
| W ₅ | (310,175) | (160,25) | (210,75) | (110,225) | (260,225) | (360,225) | (10,175) | (60,325) |
| W ₆ | (160,325) | (310,75) | (10,125) | (260,25) | (210,75) | (360,125) | (110,225) | (60,75) |
| W ₇ | (260,225) | (160,225) | (110,25) | (10,175) | (60,25) | (210,275) | (310,25) | (360,125) |
| W ₈ | (310,125) | (160,325) | (210,325) | (260,75) | (60,325) | (10,325) | (110,275) | (360,275) |

Treatment B Round 1

Market (II)

W-F, marginals 50-50

| | F_1 | F_2 | F_3 | F_4 | F_5 | F_6 | F_7 | F_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| W_1 | (425,60) | (375,60) | (325,160) | (275,210) | (225,310) | (175,10) | (125,310) | (75,310) |
| W_2 | (425,10) | (375,160) | (325,60) | (275,10) | (225,260) | (175,110) | (125,10) | (75,360) |
| W_3 | (425,360) | (375,210) | (325,260) | (275,310) | (225,110) | (175,260) | (125,260) | (75,260) |
| W_4 | (425,210) | (375,310) | (325,10) | (275,260) | (225,360) | (175,360) | (125,160) | (75,60) |
| W_5 | (425,160) | (375,260) | (325,310) | (275,360) | (225,10) | (175,160) | (125,360) | (75,110) |
| W_6 | (425,110) | (375,360) | (325,210) | (275,60) | (225,210) | (175,60) | (125,60) | (75,160) |
| W_7 | (425,260) | (375,110) | (325,110) | (275,160) | (225,160) | (175,310) | (125,210) | (75,210) |
| W_8 | (425,310) | (375,10) | (325,360) | (275,110) | (225,60) | (175,210) | (125,110) | (75,10) |

Treatment B Round 2

Market (IV)

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (360,125) | (210,175) | (60,375) | (110,425) | (160,475) | (10,425) | (310,475) | (260,325) |
| W ₂ | (160,475) | (360,125) | (260,275) | (210,475) | (60,225) | (110,175) | (10,225) | (310,475) |
| W ₃ | (260,375) | (110,325) | (360,125) | (310,325) | (210,425) | (60,475) | (10,375) | (160,375) |
| W ₄ | (310,325) | (160,425) | (110,225) | (360,125) | (260,275) | (10,275) | (60,425) | (210,175) |
| W ₅ | (260,275) | (310,275) | (160,425) | (60,175) | (360,125) | (10,375) | (210,275) | (110,225) |
| W ₆ | (10,425) | (210,375) | (60,325) | (160,375) | (310,375) | (360,125) | (110,175) | (260,425) |
| W ₇ | (110,225) | (260,225) | (160,175) | (60,275) | (210,325) | (310,325) | (360,125) | (10,275) |
| W ₈ | (260,175) | (210,475) | (310,475) | (10,225) | (160,175) | (110,225) | (60,325) | (360,125) |

Treatment B Round 3

Market (III) Deviation 1

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (360,360) | (310,360) | (260,310) | (210,310) | (160,310) | (110,60) | (60,160) | (10,10) |
| W ₂ | (360,210) | (310,260) | (260,210) | (210,210) | (160,360) | (110,160) | (60,60) | (10,110) |
| W ₃ | (360,160) | (310,210) | (260,260) | (210,360) | (160,60) | (110,10) | (60,10) | (10,160) |
| W ₄ | (360,60) | (310,310) | (260,360) | (210,260) | (160,160) | (110,110) | (60,110) | (10,60) |
| W ₅ | (160,310) | (110,10) | (60,160) | (10,160) | (360,210) | (310,260) | (260,260) | (210,210) |
| W ₆ | (160,260) | (110,160) | (60,110) | (10,10) | (360,10) | (310,310) | (260,360) | (210,260) |
| W ₇ | (160,110) | (110,60) | (60,10) | (10,60) | (360,260) | (310,360) | (260,210) | (210,310) |
| W ₈ | (160,10) | (110,110) | (60,60) | (10,110) | (360,110) | (310,210) | (260,310) | (210,360) |

Treatment B Round 4

Market (IV)

F-W, marginals 50-50

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (125,360) | (475,160) | (375,260) | (325,310) | (275,260) | (425,10) | (225,110) | (175,260) |
| F_2 | (175,210) | (125,360) | (325,110) | (425,160) | (275,310) | (375,210) | (225,260) | (475,210) |
| F_3 | (375,60) | (275,260) | (125,360) | (225,110) | (425,160) | (325,60) | (175,160) | (475,310) |
| F_4 | (425,110) | (475,210) | (325,310) | (125,360) | (175,60) | (375,160) | (275,60) | (225,10) |
| F_5 | (475,160) | (225,60) | (425,210) | (275,260) | (125,360) | (375,310) | (325,210) | (175,160) |
| F_6 | (425,10) | (175,110) | (475,60) | (275,10) | (375,10) | (125,360) | (325,310) | (225,110) |
| F_7 | (475,310) | (225,10) | (375,10) | (425,60) | (275,210) | (175,110) | (125,360) | (325,60) |
| F_8 | (325,260) | (475,310) | (375,160) | (175,210) | (225,110) | (425,260) | (275,10) | (125,360) |

Treatment B Round 5

Market (III) Deviation 2

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (360,310) | (310,360) | (260,310) | (210,310) | (160,310) | (110,60) | (60,160) | (10,10) |
| W ₂ | (160,210) | (310,260) | (260,210) | (210,210) | (360,360) | (110,160) | (60,60) | (10,110) |
| W ₃ | (360,160) | (310,210) | (260,260) | (210,360) | (160,60) | (110,10) | (60,10) | (10,160) |
| W ₄ | (360,60) | (310,310) | (260,360) | (210,260) | (160,160) | (110,110) | (60,110) | (10,60) |
| W ₅ | (160,360) | (110,10) | (60,160) | (10,160) | (360,210) | (310,260) | (260,260) | (210,210) |
| W ₆ | (160,260) | (110,160) | (60,110) | (10,10) | (360,10) | (310,310) | (260,360) | (210,260) |
| W ₇ | (160,110) | (110,60) | (60,10) | (10,60) | (360,260) | (310,360) | (260,210) | (210,310) |
| W ₈ | (160,10) | (110,110) | (60,60) | (10,110) | (360,110) | (310,210) | (260,310) | (210,360) |

Treatment B Round 6

Market (VI)

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (260,360) | (360,310) | (210,260) | (310,210) | (10,160) | (60,110) | (110,60) | (160,10) |
| W ₂ | (310,310) | (360,260) | (210,210) | (260,360) | (60,110) | (110,10) | (160,160) | (10,60) |
| W ₃ | (210,260) | (310,360) | (260,360) | (360,310) | (110,10) | (160,60) | (10,110) | (60,160) |
| W ₄ | (360,210) | (210,210) | (310,310) | (260,260) | (160,60) | (10,160) | (60,10) | (110,110) |
| W ₅ | (10,160) | (60,110) | (110,60) | (160,10) | (260,360) | (360,310) | (210,260) | (310,210) |
| W ₆ | (60,110) | (110,10) | (160,160) | (10,60) | (310,310) | (360,260) | (210,210) | (260,360) |
| W ₇ | (110,10) | (160,60) | (10,110) | (60,160) | (210,260) | (310,360) | (260,360) | (360,310) |
| W ₈ | (160,60) | (10,160) | (60,10) | (110,110) | (360,210) | (210,210) | (310,310) | (260,260) |

Treatment B Round 7

Market (I)

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (425,425) | (375,425) | (325,425) | (275,425) | (225,425) | (175,425) | (125,425) | (75,425) |
| W ₂ | (425,375) | (375,375) | (325,375) | (275,375) | (225,375) | (175,375) | (125,375) | (75,375) |
| W ₃ | (425,325) | (375,325) | (325,325) | (275,325) | (225,325) | (175,325) | (125,325) | (75,325) |
| W ₄ | (425,275) | (375,275) | (325,275) | (275,275) | (225,275) | (175,275) | (125,275) | (75,275) |
| W ₅ | (425,225) | (375,225) | (325,225) | (275,225) | (225,225) | (175,225) | (125,225) | (75,225) |
| W ₆ | (425,175) | (375,175) | (325,175) | (275,175) | (225,175) | (175,175) | (125,175) | (75,175) |
| W ₇ | (425,125) | (375,125) | (325,125) | (275,125) | (225,125) | (175,125) | (125,125) | (75,125) |
| W ₈ | (425,75) | (375,75) | (325,75) | (275,75) | (225,75) | (175,75) | (125,75) | (75,75) |

Treatment B Round 8

Market (III)

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (360,310) | (310,360) | (260,310) | (210,310) | (160,310) | (110,60) | (60,160) | (10,10) |
| W ₂ | (360,210) | (310,260) | (260,210) | (210,210) | (160,360) | (110,160) | (60,60) | (10,110) |
| W ₃ | (360,160) | (310,210) | (260,260) | (210,360) | (160,60) | (110,10) | (60,10) | (10,160) |
| W ₄ | (360,60) | (310,310) | (260,360) | (210,260) | (160,160) | (110,110) | (60,110) | (10,60) |
| W ₅ | (160,360) | (110,10) | (60,160) | (10,160) | (360,210) | (310,260) | (260,260) | (210,210) |
| W ₆ | (160,260) | (110,160) | (60,110) | (10,10) | (360,10) | (310,310) | (260,360) | (210,260) |
| W ₇ | (160,110) | (110,60) | (60,10) | (10,60) | (360,260) | (310,360) | (260,210) | (210,310) |
| W ₈ | (160,10) | (110,110) | (60,60) | (10,110) | (360,110) | (310,210) | (260,310) | (210,360) |

Treatment B Round 9

Market (II)

F-W, marginals 50-50

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (60,425) | (10,425) | (360,425) | (210,425) | (160,425) | (110,425) | (260,425) | (310,425) |
| F_2 | (60,375) | (160,375) | (210,375) | (310,375) | (260,375) | (360,375) | (110,375) | (10,375) |
| F_3 | (160,325) | (60,325) | (260,325) | (10,325) | (310,325) | (210,325) | (110,325) | (360,325) |
| F_4 | (210,275) | (10,275) | (310,275) | (260,275) | (360,275) | (60,275) | (160,275) | (110,275) |
| F_5 | (310,225) | (260,225) | (110,225) | (360,225) | (10,225) | (210,225) | (160,225) | (60,225) |
| F_6 | (10,175) | (110,175) | (260,175) | (360,175) | (160,175) | (60,175) | (310,175) | (210,175) |
| F_7 | (310,125) | (10,125) | (260,125) | (160,125) | (360,125) | (60,125) | (210,125) | (110,125) |
| F_8 | (310,75) | (360,75) | (260,75) | (60,75) | (110,75) | (160,75) | (210,75) | (10,75) |

Treatment B Round 10

Market (III)

F-W, marginals 50-50

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (310,360) | (210,360) | (160,360) | (60,360) | (360,160) | (260,160) | (110,160) | (10,160) |
| F_2 | (360,310) | (260,310) | (210,310) | (310,310) | (10,110) | (160,110) | (60,110) | (110,110) |
| F_3 | (310,260) | (210,260) | (260,260) | (360,260) | (160,60) | (110,60) | (10,60) | (60,60) |
| F_4 | (310,210) | (210,210) | (360,210) | (260,210) | (160,10) | (10,10) | (60,10) | (110,10) |
| F_5 | (310,160) | (360,160) | (60,160) | (160,160) | (210,360) | (10,360) | (260,360) | (110,360) |
| F_6 | (60,110) | (160,110) | (10,110) | (110,110) | (260,310) | (310,310) | (360,310) | (210,310) |
| F_7 | (160,60) | (60,60) | (10,60) | (110,60) | (260,260) | (360,260) | (210,260) | (310,260) |
| F_8 | (10,10) | (110,10) | (160,10) | (60,10) | (210,210) | (260,210) | (310,210) | (360,210) |

Treatment B Round 11

Market (II)

W-F, marginals 50-50

| | F_1 | F_2 | F_3 | F_4 | F_5 | F_6 | F_7 | F_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| W_1 | (425,60) | (375,60) | (325,160) | (275,210) | (225,310) | (175,10) | (125,310) | (75,310) |
| W_2 | (425,10) | (375,160) | (325,60) | (275,10) | (225,260) | (175,110) | (125,10) | (75,360) |
| W_3 | (425,360) | (375,210) | (325,260) | (275,310) | (225,110) | (175,260) | (125,260) | (75,260) |
| W_4 | (425,210) | (375,310) | (325,10) | (275,260) | (225,360) | (175,360) | (125,160) | (75,60) |
| W_5 | (425,160) | (375,260) | (325,310) | (275,360) | (225,10) | (175,160) | (125,360) | (75,110) |
| W_6 | (425,110) | (375,360) | (325,210) | (275,60) | (225,210) | (175,60) | (125,60) | (75,160) |
| W_7 | (425,260) | (375,110) | (325,110) | (275,160) | (225,160) | (175,310) | (125,210) | (75,210) |
| W_8 | (425,310) | (375,10) | (325,360) | (275,110) | (225,60) | (175,210) | (125,110) | (75,10) |

Treatment B Round 12

Market (IV)

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (360,125) | (210,175) | (60,375) | (110,425) | (160,475) | (10,425) | (310,475) | (260,325) |
| W ₂ | (160,475) | (360,125) | (260,275) | (210,475) | (60,225) | (110,175) | (10,225) | (310,475) |
| W ₃ | (260,375) | (110,325) | (360,125) | (310,325) | (210,425) | (60,475) | (10,375) | (160,375) |
| W ₄ | (310,325) | (160,425) | (110,225) | (360,125) | (260,275) | (10,275) | (60,425) | (210,175) |
| W ₅ | (260,275) | (310,275) | (160,425) | (60,175) | (360,125) | (10,375) | (210,275) | (110,225) |
| W ₆ | (10,425) | (210,375) | (60,325) | (160,375) | (310,375) | (360,125) | (110,175) | (260,425) |
| W ₇ | (110,225) | (260,225) | (160,175) | (60,275) | (210,325) | (310,325) | (360,125) | (10,275) |
| W ₈ | (260,175) | (210,475) | (310,475) | (10,225) | (160,175) | (110,225) | (60,325) | (360,125) |

Treatment B Round 13

Market (III) Deviation 1

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (360,360) | (310,360) | (260,310) | (210,310) | (160,310) | (110,60) | (60,160) | (10,10) |
| W ₂ | (360,210) | (310,260) | (260,210) | (210,210) | (160,360) | (110,160) | (60,60) | (10,110) |
| W ₃ | (360,160) | (310,210) | (260,260) | (210,360) | (160,60) | (110,10) | (60,10) | (10,160) |
| W ₄ | (360,60) | (310,310) | (260,360) | (210,260) | (160,160) | (110,110) | (60,110) | (10,60) |
| W ₅ | (160,310) | (110,10) | (60,160) | (10,160) | (360,210) | (310,260) | (260,260) | (210,210) |
| W ₆ | (160,260) | (110,160) | (60,110) | (10,10) | (360,10) | (310,310) | (260,360) | (210,260) |
| W ₇ | (160,110) | (110,60) | (60,10) | (10,60) | (360,260) | (310,360) | (260,210) | (210,310) |
| W ₈ | (160,10) | (110,110) | (60,60) | (10,110) | (360,110) | (310,210) | (260,310) | (210,360) |

Treatment B Round 14

Market (IV)

F-W, marginals 50-50

| | w_1 | w_2 | w_3 | w_4 | w_5 | w_6 | w_7 | w_8 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| F_1 | (125,360) | (475,160) | (375,260) | (325,310) | (275,260) | (425,10) | (225,110) | (175,260) |
| F_2 | (175,210) | (125,360) | (325,110) | (425,160) | (275,310) | (375,210) | (225,260) | (475,210) |
| F_3 | (375,60) | (275,260) | (125,360) | (225,110) | (425,160) | (325,60) | (175,160) | (475,310) |
| F_4 | (425,110) | (475,210) | (325,310) | (125,360) | (175,60) | (375,160) | (275,60) | (225,10) |
| F_5 | (475,160) | (225,60) | (425,210) | (275,260) | (125,360) | (375,310) | (325,210) | (175,160) |
| F_6 | (425,10) | (175,110) | (475,60) | (275,10) | (375,10) | (125,360) | (325,310) | (225,110) |
| F_7 | (475,310) | (225,10) | (375,10) | (425,60) | (275,210) | (175,110) | (125,360) | (325,60) |
| F_8 | (325,260) | (475,310) | (375,160) | (175,210) | (225,110) | (425,260) | (275,10) | (125,360) |

Treatment B Round 15

Market (III) Deviation 2

W-F, marginals 50-50

| | F ₁ | F ₂ | F ₃ | F ₄ | F ₅ | F ₆ | F ₇ | F ₈ |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| W ₁ | (360,310) | (310,360) | (260,310) | (210,310) | (160,310) | (110,60) | (60,160) | (10,10) |
| W ₂ | (160,210) | (310,260) | (260,210) | (210,210) | (360,360) | (110,160) | (60,60) | (10,110) |
| W ₃ | (360,160) | (310,210) | (260,260) | (210,360) | (160,60) | (110,10) | (60,10) | (10,160) |
| W ₄ | (360,60) | (310,310) | (260,360) | (210,260) | (160,160) | (110,110) | (60,110) | (10,60) |
| W ₅ | (160,360) | (110,10) | (60,160) | (10,160) | (360,210) | (310,260) | (260,260) | (210,210) |
| W ₆ | (160,260) | (110,160) | (60,110) | (10,10) | (360,10) | (310,310) | (260,360) | (210,260) |
| W ₇ | (160,110) | (110,60) | (60,10) | (10,60) | (360,260) | (310,360) | (260,210) | (210,310) |
| W ₈ | (160,10) | (110,110) | (60,60) | (10,110) | (360,110) | (310,210) | (260,310) | (210,360) |