

# MATRIZ DE DADOS

## Modelo COABA 12

MT  
11/87  
v. 2

COA3A12  
BASIS: NONE

OBJECTIVE MIN  
CONSTRAINTS: 145

VARIABLES: 281  
SLACKS: 94

DATE 03-01-1985  
TIME 00:03:11

	X10.1	X10.6	X12.1	X12.2	X12.3	X12.6	X12.8	X13.1	X13.3	X13.6	X14.1	X14.4	X14.6	X15.1
COST	544.9	531.9	546	462.9	513.4	541.1	525.2	560.9	495.1	539.1	585.4	521	566.1	572.7
PR01.0	1	1												
PR01.2			1	1	1	1	1							
PR01.3								1	1	1				
PR01.4											1	1	1	
PR01.5														1
PR01.6														
PR01.7														
PR01.8														
PR01.9														
BA08.1	.61		.61					.61			.61			.61
BA08.2				.65										
BA08.3					.63				.63					
BA08.4														
BA08.6		.66				.66						.68		
BA08.7										.66			.66	
BA08.8							.68							
ABAS08														
PR02.0														
PR02.2														
PR02.3														
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CP37.8														
CP37.9														
ABAS02														
PR03.0														
PR03.2														
PR03.3														
PR03.4														
PR03.5														
PR03.6														
PR03.7														

	COST	PR01.0	PR01.2	PR01.3	PR01.4	PR01.5	PR01.6	PR01.7	PR01.8	PR01.9	BA08.1	BA08.2	BA08.3	BA08.4	BA08.6	BA08.7	BA08.8	ABAS08	PR02.0	PR02.2	PR02.3	PR02.4	PR02.5	PR02.6	PR02.7	PR02.8	PR02.9	DF02.0	DF02.1	DF02.2	DF02.3	DF02.4	DF02.5	DF02.6	DF02.7	DF02.8	DF02.9	CP37.0	CP37.1	CP37.2	CP37.3	CP37.4	CP37.5	CP37.6	CP37.7	CP37.8	CP37.9	ABAS02	PR03.0	PR03.2	PR03.3	PR03.4	PR03.5	PR03.6
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PR03.9  
CP03.1  
CP03.2  
CP03.3  
CP03.4  
CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
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BAMA.5  
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BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
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CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
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CP04.0  
CP04.1  
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CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
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BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR

PR03.8  
PR03.9  
CP03.1  
CP03.2  
CP03.3  
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CP03.7  
CP03.8  
CP03.9  
BAMA.1  
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ABAS10  
PR04.0  
PR04.2  
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PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
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CP04.4  
CP04.5  
CP04.6  
CP04.7  
CP04.8  
CP04.9  
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BA06.2  
BA06.3  
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BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV

DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPRD1  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
CP38.4  
CP38.5  
CP38.6  
CP38.7  
CP38.8  
CP38.9  
CP40.1  
CP40.2  
CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9  
LOWER  
UPPER

1

1

1

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X10.1

X10.6

X12.1

X12.2

X12.3

X12.6

X12.8

X13.1

X13.3

X13.6

X14.1

X14.4

X14.6

X15.1

X15.3

X15.6

X16.1

X16.6

X17.1

X17.3

X17.4

X17.6

X17.7

X18.1

X18.2

X18.3

X18.6

X18.8

COST

527.4

559.3

537.8

497.4

654.9

645.4

644.4

678.2

582.7

569

537.1

540.1

552.6

474.8

PR01.0

PR01.2

PR01.3

PR01.4

PR01.5

PR01.6

PR01.7

PR01.8

PR01.9

BA08.1

BA08.2

BA08.3

BA08.4

BA08.6

BA08.7

BA08.8

ABAS08

PR02.0

PR02.2

PR02.3

PR02.4

PR02.5

PR02.6

PR02.7

PR02.8

PR02.9

DF02.0

DF02.1

DF02.2

DF02.3

DF02.4

DF02.5

DF02.6

DF02.7

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DFPRCA  
DFCALT  
DFPROT  
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CP38.2  
CP38.3  
CP38.4  
CP38.5  
CP38.6  
CP38.7  
CP38.8  
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CP40.2  
CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9  
BOUND  
BOUND

COST

PR01.0

PR01.2

PR01.3

PR01.4

PR01.5

PR01.6

PR01.7

PR01.8

PR01.9

BA08.1

BA08.2

BA08.3

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ABAS08

PR02.0

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DF02.1

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DF02.9  
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CP37.2  
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CP37.8  
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PR03.9  
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ABAS10  
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ABAS09  
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ABAS09  
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BA06.1  
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BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
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CP38.1  
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CP40.1  
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CP40.3  
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CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9  
LOWER

1

1

1

3640  
72  
3672

3.64  
72  
3672

CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
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ABAS06  
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CP40.9  
LOWER

1.25

4.49

ROUND





CP03.5  
CP03.6  
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CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
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ABAS09  
ABAS10  
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ABAS06  
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ABAS05  
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CP03.5  
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ABAS09  
ABAS10  
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ABAS07  
ABAS05  
CALFAV  
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GASFAV  
GASCAR  
DFCLFA  
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DFPRCA  
DFCALT  
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CP37.5  
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ABAS02  
PR03.0  
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ABAS10  
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CP04.7  
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CP04.9  
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BA06.3

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CP37.6  
CP37.7  
CP37.8  
CP37.9  
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ABAS10  
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PR04.9  
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BA06.3

BA06.8  
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BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
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CP38.8  
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CP40.1  
CP40.2  
CP40.3  
CP40.4  
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CP40.6  
CP40.7  
CP40.8  
CP40.9  
LOWER  
UPPER

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1

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1

1

X24.1

X24.4

X24.6

X25.1

X25.3

X25.5

X25.6

X25.9

X26.1

X26.6

X26.9

X27.0

X27.1

X27.3

X27.4  
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X27.5  
1227

X27.6  
1268

X27.7  
1172

X28.1  
1742

X28.2  
1711

X28.3  
1714

X28.6  
1726

X28.8  
1648

X28.9  
1729

X29.1  
1439

X29.3  
1427

X29.6  
1432

X29.9  
1390

COST  
PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3

BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
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GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
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CP40.8  
CP40.9  
BOUND  
BOUND

COST  
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PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
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ABAS08  
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ABAS02  
PR03.0  
PR03.2  
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BAMA.1  
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CP36.1  
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ABAS02  
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CP36.1  
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ABAS09  
ABAS10  
PR04.0  
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BA06.1  
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BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
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3436  
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3602  
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BAMA.3  
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CP36.1  
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ABAS09  
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PR04.0  
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CP04.0  
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BA06.1  
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BA07.1  
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ABAS06  
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ABAS05  
CALFAV  
CALCAR  
PROFAV  
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GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
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CP38.7  
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CP40.1  
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CP40.9  
LOWER  
UPPER

1.2 101 144.6 19.8 30 4.8 245 311.6 330 19.4 1.23 6.35  
Y02.0 Y02.1 Y02.2 Y02.3 Y02.4 Y02.5 Y02.6 Y02.7 Y02.8 Y02.9 Z02.1 Z02.2 X30.1 X30.6  
3.68 19.1

COST  
PR01.0  
PR01.2  
PR01.3  
PR01.4  
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PR01.6  
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PR01.9  
BA08.1  
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ABAS08  
PR02.0  
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PR02.9  
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CP37.0  
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X32.1 X32.2 X32.3 X32.6 X32.8 X32.9 X33.1 X33.3 X33.5 X33.6 X33.9 X34.1 X34.4 X34.6  
388.1 305 355.6 383.2 367.3 372.6 350.3 284.6 316.9 328.5 321.7 356.8 292.9 337.5

CP38.6  
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COST  
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ABAS08  
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ABAS05  
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 DFCLFA  
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 DFPRFA  
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X32.1 X32.2 X32.3 X32.6 X32.8 X32.9 X33.1 X33.3 X33.5 X33.6 X33.9 X34.1 X34.4 X34.6

X35.1 X35.3 X35.5 X35.6 X35.9 X36.1 X36.6 X36.9 X37.1 X37.3 X37.4 X37.5 X37.6 X37.7  
 362.1 316.9 284.6 348.7 336.7 351.4 311.1 353.1 356.8 348.3 346.2 338.9 380.1 284.6

COST  
 PR01.0  
 PR01.2  
 PR01.3  
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 ABAS08  
 PR02.0  
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ABAS07  
 ABAS05  
 CALFAV  
 CALCAR  
 PROFAV  
 PROCAR  
 GASFAV  
 GASCAR  
 DFCLFA  
 DFCLCA  
 DFPRFA  
 DFPRCA  
 DFCALT  
 DFPROT  
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COST  
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 ABAS08  
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 ABAS06  
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 ABAS05  
 CALFAV  
 CALCAR  
 PROFAY  
 PROCAR  
 GASFAV  
 GASCAR  
 DFCLFA  
 DFCLCA  
 DFPRFA  
 DFPRCA  
 DFCAIT  
 DFPROT  
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X35.1 X35.3 X35.5 X35.6 X35.9 X36.1 X36.6 X36.9 X37.1 X37.3 X37.4 X37.5 X37.6 X37.7

X38.1 X38.2 X38.3 X38.6 X38.8 X38.9 X39.1 X39.3 X39.6 X39.9 Y09.1 Y09.2 Y09.3 Y09.4  
 393.1 361.2 364.2 376.7 298.9 379.6 338.4 326.5 331.3 289.3 1215 1140 997.5 1022

COST  
 PR01.0  
 PR01.2  
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 PR01.5  
 PR01.6

PR04.9  
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 ABAS05  
 CALFAV  
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 PROFAY  
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 DFPRFA  
 DFPRCA  
 DFCAIT  
 DFPROT  
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 COST  
 PR01.0  
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BAMA.8  
BAMA.9  
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ABAS09  
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PR04.0  
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ABAS05  
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ABAS09  
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BA07.1  
BA07.2  
ABAS06  
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ABAS05  
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PROFAV  
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GASFAV  
GASCAR  
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CP40.1  
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CP40.3  
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X38.1 X38.2 X38.3 X38.6 X38.8 X38.9 X39.1 X39.3 X39.6 X39.9 3.5 22.5 5 2  
Y09.1 Y09.2 Y09.3 Y09.4

COST  
PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
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BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
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CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4  
PR03.5

Y09.5 Y09.6 Y09.7 Y09.8 Y09.9 Y10.1 Y10.2 Y10.3 Y10.4 Y10.5 Y10.6 Y10.7 Y10.8 Y10.9  
1029 1310 1066 1028 1071 646.3 638.6 541.5 561.4 572.5 726.1 604.6 571 579

CP40.3  
CP40.4  
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COST  
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ABAS02  
PR03.0  
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GASCAR  
DFCLFA  
JFCLCA  
JFPRFA  
DFPRCA  
DFCALT  
JFPROT  
CP38.0  
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CP38.9  
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LOWER  
UPPER

2	4.5	200	104.9	17.5	3.5	22.5	5	2	2	4.5	200	104.9	17.5
Y09.5	Y09.6	Y09.7	Y09.8	Y09.9	Y10.1	Y10.2	Y10.3	Y10.4	Y10.5	Y10.6	Y10.7	Y10.8	Y10.9
Y39.1	Y39.2	Z09.1	Z09.2	Z10.1	Z10.2	X40.1	X40.6	X42.1	X42.2	X42.3	X42.6	X42.8	X42.9
535.4	618.5	256.9	256.9	168.9	168.9	1398	1385	1434	1351	1401	1429	1413	1418

COST  
PR01.0  
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ABAS08  
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GASFAV  
GASCAR  
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DFPRCA  
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COST  
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ABAS02  
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ABAS02  
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CP36.1  
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LOWER  
UPPER

X43.1 X43.3 X43.6 X43.9 X45.1 X45.3 X45.6 X45.9 X46.1 X46.6 X46.9 X47.1 X47.3 X47.6

X48.1 X48.2 X48.3 X48.6 X48.8 X48.9 X49.1 X49.3 X49.6 X49.9 Y06.1 Y06.2 Y06.3 Y06.6  
1445 1413 1416 1429 1351 1432 1400 1388 1393 1351 535.4 618.5 601.2 575.7

COST

PR01.0

PR01.2

PR01.3

PR01.4

PR01.5

PR01.6

PR01.7

PR01.8

PR01.9

BA08.1

BA08.2

BA08.3

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BA08.8

ABAS08

PR02.0

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CP37.9

ABAS02

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CP03.1

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CP40.9  
BOUND  
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COST

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BA08.1

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ABAS08

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ABAS02

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X48.1	X48.2	X48.3	X48.6	X48.8	X48.9	X49.1	X49.3	X49.6	X49.9	155.4	2.2	1.37	123.7
Y06.8	Y06.9	Y07.1	Y07.2	M4.1	M4.2	M4.3	M4.6	M4.8	M4.9	Y06.1	Y06.2	Y06.3	Y06.6
629.6	584.6	2126	2210	2026	2151	2125	2087	2168	2100	232.9	232.9	694.6	694.6

COST  
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ABAS06	1	1														
ABAS07			1	1												
ABAS05																
CALFAV																
CALCAR																
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LOWER																
UPPER	5.2	9.1	30.3	2.4								1.28	6.61	.27	1.4	
	Y06.8	Y06.9	Y07.1	Y07.2	M4.1	M4.2	M4.3	M4.6	M4.8	M4.9		Z06.1	Z06.2	Z07.1	Z07.2	
	Y05.0	Y05.2	Y05.4	Y05.6	Y05.7	Y05.9	Z05.1	Z05.2	Z11.1	Z11.2	Z12.1	Z12.2	Z13.1	Z13.2		
COST	6968	5832	5338	7747	4470	6956	949.4	949.4	2433	2433	21270	21270	3435	3435		
PR01.0																
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Z07.1

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BA07.1  
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ABAS06  
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CALFAV  
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DFPRFA  
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DFCALT  
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CP38.0  
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CALFAV	2810		785		3427	315		455		950		200		
CALCAR		2.81		.79		3.43		.32		.46		.95		.2
PROFAV	75		18		13.6	16		6		13		10		10
PROCAR		75		18		13.6		16		6		13		10
GASFAV	4540		2020		2181	2979		2354		1986		2961		1986
GASCAR		4540		2020		2181		2979		2354		1986		2961

CP03.9  
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LOWER  
UPPER

.21	1.08	.37	1.94	.22	1.16	.28	1.43	.13	.69	.36	1.89	.29	1.48
1.27	6.56	2.19	11.4	.67	3.48	.55	2.87	.53	2.76	1.46	7.57	1.14	5.92
Z15.1	Z15.2	Z16.1	Z16.2	Z17.1	Z17.2	Z18.1	Z18.2	Z19.1	Z19.2	Z20.1	Z20.2	Z21.1	Z21.2

COST

Z22.1	Z22.2	Z23.1	Z23.2	Z24.1	Z24.2	Z25.1	Z25.2	Z26.1	Z26.2	Z27.1	Z27.2	Z28.1	Z28.2
18940	18940	11326	11326	18992	18992	6946	6946	6932	6932	6715	6715	6788	6788

PR01.0  
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BA06.9  
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BA07.2  
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ABAS07  
ABAS05  
CALFAV  
CALCAR

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# 0 BAMA.8  
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# 0 ABAS10  
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<# .33 PR04.3  
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<# .28 PR04.6  
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# 0 CALFAV  
# 0 CALCAR

PROCAR  
GASFAV  
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DFCLFA  
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DFPRFA  
DFPRCA  
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CP38.0  
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CP38.8  
CP38.9  
CP40.1  
CP40.2  
CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9  
LOWER  
UPPER

b.10

=	0	PROFAV
=	0	PROCAR
>=	0	GASFAV
>=	0	GASCAR
=	0	DFCLFA
=	0	DFCLCA
=	0	DFPRFA
=	0	DFPRCA
=	0	DFCALT
=	0	DFPROT
<=	1.2	CP38.0
<=	101	CP38.1
<=	144.5	CP38.2
<=	19.78	CP38.3
<=	29.99	CP38.4
<=	4.8	CP38.5
<=	245	CP38.6
<=	311.6	CP38.7
<=	329.9	CP38.8
<=	19.41	CP38.9
<=	131.4	CP40.1
<=	268.34	CP40.2
<=	239.9	CP40.3
<=	9.38	CP40.4
<=	30.6	CP40.5
<=	536.1	CP40.6
<=	70.16	CP40.7
<=	1234.5	CP40.8
<=	4.8	CP40.9
		BOUND
		BOUND
	RHS	

**MATRIZ DE DADOS**  
**Modelo COABA 12 A**



CP03.1  
CP03.2  
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CP36.1  
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BA07.2  
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ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
JFCLEFA

PR03.9  
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CP37.0  
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CP40.8  
CP40.9  
LOWER  
UPPER

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4.3

8.1

23.1

1.5

36.4

89

30.8

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3640

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3.64

72

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 CP40.8  
 CP40.9  
 LOWER  
 UPPER

	X20.0	X20.1	X20.6	X22.1	X22.2	X22.3	X22.6	X22.8	X22.9	X23.1	X23.3	X23.5	X23.6	X23.9
COST	3838	3726	3811	3582	3487	3406	3553	3528	3823	3726	3827	2937	2940	2919

PR01.0  
 PR01.2  
 PR01.3  
 PR01.4  
 PR01.5  
 PR01.6  
 PR01.7  
 PR01.8  
 PR01.9  
 BA08.1  
 BA08.2  
 BA08.3  
 BA08.4  
 BA08.6  
 BA08.7  
 BA08.8  
 ABAS08  
 PR02.0  
 PR02.2  
 PR02.3  
 PR02.4  
 PR02.5  
 PR02.6  
 PR02.7  
 PR02.8  
 PR02.9  
 DF02.0  
 DF02.1  
 DF02.2  
 DF02.3  
 DF02.4  
 DF02.5  
 DF02.6  
 DF02.7  
 DF02.8  
 DF02.9  
 CP37.0  
 CP37.1  
 CP37.2  
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 CP37.4

PR01.0														
PR01.2														
PR01.3														
PR01.4														
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PR01.7														
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PR01.9														
BA08.1														
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BA08.6														
BA08.7														
BA08.8														
ABAS08														
PR02.0														
PR02.2														
PR02.3														
PR02.4	1	1	1											
PR02.5				1	1	1	1	1						
PR02.6									1	1	1			
PR02.7												1	1	1
PR02.8														
PR02.9														
DF02.0												1		
DF02.1	1			1					1				1	
DF02.2														
DF02.3					1									
DF02.4		1												1
DF02.5							1							
DF02.6			1					1						
DF02.7										1				
DF02.8														
DF02.9								1				1		
CP37.0														
CP37.1														
CP37.2														
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 CP40.1  
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 BOUND  
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COST  
 PR01.0  
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 PR01.9  
 BA08.1  
 BA08.2  
 BA08.3  
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 BA08.8  
 ABAS08  
 PR02.0  
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 PR02.8  
 PR02.9  
 DF02.0  
 DF02.1  
 DF02.2  
 DF02.3  
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 DF02.6  
 DF02.7  
 DF02.8  
 DF02.9  
 CP37.0  
 CP37.1  
 CP37.2  
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CP37.5  
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CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4  
PR03.5  
PR03.6  
PR03.7  
PR03.8  
PR03.9  
CP03.1  
CP03.2  
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CP03.4  
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CP03.8  
CP03.9  
BAMA.1  
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BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
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CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7  
PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
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CP04.5  
CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6

CP37.5  
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CP37.8  
CP37.9  
ABAS02  
PR03.0  
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CP03.9  
BAMA.1  
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CP36.1  
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ABAS09  
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PR04.0  
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PR04.9  
CP04.0  
CP04.1  
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CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6

BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
CP38.4  
CP38.5  
CP38.6  
CP38.7  
CP38.8  
CP38.9  
CP40.1  
CP40.2  
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LOWER  
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X24.1

X24.4

X24.6

X25.1

X25.3

X25.5

X25.6

X25.9

X26.1

X26.6

X26.9

X27.0

X27.1

X27.3

X27.4

X27.5

X27.6

X27.7

X28.1

X28.2

X28.3

X28.6

X28.8

X28.9

X29.1

X29.3

X29.6

X29.9

COST  
PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4

2915

2898

2913

2773

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3898

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3402

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3286

BA06.8  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
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GASFAV  
GASCAR  
DFCLFA  
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DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
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CP38.9  
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COST  
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ABAS08  
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PR02.9  
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DF02.9  
CP37.0  
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CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
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PR03.6  
PR03.7  
PR03.8  
PR03.9  
CP03.1  
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CP03.8  
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BAMA.1  
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PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
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BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
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PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
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CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
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CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
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PR03.8  
PR03.9  
CP03.1  
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CP03.3  
CP03.4  
CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2

BAMA.4  
BAMA.5  
BAMA.6  
BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7  
PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
CP04.3  
CP04.4  
CP04.5  
CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
CP38.4  
CP38.5  
CP38.6

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3436  
207  
8000  
3.44  
207  
8000

BAMA.3  
BAMA.4  
BAMA.5  
BAMA.6  
BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
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PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
CP04.3  
CP04.4  
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CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
CP38.4  
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CP38.8  
CP38.9  
CP40.1  
CP40.2  
CP40.3  
CP40.4  
CP40.5  
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CP40.7  
CP40.8  
CP40.9

LOWER  
UPPER

1.2 101 144.6 19.8 30 4.8 245 311.6 330 19.4 1.23 6.35  
Y02.0 Y02.1 Y02.2 Y02.3 Y02.4 Y02.5 Y02.6 Y02.7 Y02.8 Y02.9 Z02.1 Z02.2 X30.1 X30.6

CDST

X32.1 X32.2 X32.3 X32.6 X32.8 X32.9 X33.1 X33.3 X33.5 X33.6 X33.9 X34.1 X34.4 X34.6  
1480 1290 1408 1467 1433 1444 1354 1203 1283 1308 1293 1385 1238 1344

PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9  
CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02

CP38.7  
CP38.8  
CP38.9  
CP40.1  
CP40.2  
CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9  
BOUND  
BOUND

CDST  
PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
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ABAS08  
PR02.0  
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DF02.0  
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CP37.0  
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ABAS02

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CALFAV  
 CALCAR  
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 DFCLFA  
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 DFPRFA  
 DFPRCA  
 DFCALT  
 DFPROT  
 CP38.0  
 CP38.1  
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 CP40.1  
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 LOWER  
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X32.1	X32.2	X32.3	X32.6	X32.8	X32.9	X33.1	X33.3	X33.5	X33.6	X33.9	X34.1	X34.4	X34.6
X35.1	X35.3	X35.5	X35.6	X35.9	X36.1	X36.6	X36.9	X37.1	X37.3	X37.4	X37.5	X37.6	X37.7
1379	1283	1203	1350	1325	1412	1315	1416	1465	1444	1440	1424	1438	1298

COST  
 PR01.0  
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 BA08.1  
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 BA08.8  
 ABAS08  
 PR02.0  
 PR02.2  
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 DF02.0

ABAS08  
 CALFAV  
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 PROFAV  
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 DFCLFA  
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 CP38.0  
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 CP40.1  
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 BOUND  
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COST  
 PR01.0  
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 BA08.1  
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 ABAS08  
 PR02.0  
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 DF02.0









CP36.1  
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CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
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PR04.6  
PR04.7  
PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
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CP04.4  
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CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
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CP38.0  
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ABAS09  
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PR04.0  
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CP04.0  
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CALFAV  
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DFCLFA  
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CP38.0  
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CP38.3  
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CP38.9  
CP40.1  
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CP40.8  
CP40.9

LOWER  
UPPER

2	4.5	200	104.9	17.5	3.5	22.5	5	2	2	4.5	200	104.9	17.5
Y09.5	Y09.6	Y09.7	Y09.8	Y09.9	Y10.1	Y10.2	Y10.3	Y10.4	Y10.5	Y10.6	Y10.7	Y10.8	Y10.9

COST

Y39.1	Y39.2	Z09.1	Z09.2	Z10.1	Z10.2	X40.1	X40.6	X42.1	X42.2	X42.3	X42.6	X42.8	X42.9
543.2	733.4	893.2	893.2	575.6	575.6	3810	3782	3888	3698	3816	3874	3841	3852

PR01.0  
PR01.2  
PR01.3  
PR01.4  
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PR01.9  
BA08.1  
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BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6

GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
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CP38.7  
CP38.8  
CP38.9  
CP40.1  
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BOUND  
BOUND

COST  
PR01.0  
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ABAS08  
PR02.0  
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PR02.7  
PR02.8  
PR02.9  
DF02.0  
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DF02.8  
DF02.9  
CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4  
PR03.5  
PR03.6  
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PR03.9  
CP03.1  
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CP03.9  
BAMA.1  
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BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
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ABAS09  
ABAS10  
PR04.0  
PR04.2  
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ABAS02  
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ABAS09  
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PR04.0  
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BA08.6  
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JF02.0  
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CP37.0  
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ABAS02  
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UPPER

BOUND  
BOUND

	X43.1	X43.3	X43.6	X43.9	X45.1	X45.3	X45.6	X45.9	X46.1	X46.6	X46.9	X47.1	X47.3	X47.6
COST	3912	3841	3847	3877	3698	3880	3813	3788	3798	3698	543.2	733.4	693.7	640
PR01.0														
PR01.2														
PR01.3														
PR01.4														
PR01.5														
PR01.6														
PR01.7														
PR01.8														
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ABAS09  
ABAS10  
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ABAS09  
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CP04.0  
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CP04.9  
BA06.1  
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PR02.3  
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ABAS02  
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PR01.0  
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BA08.1  
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ABAS08  
PR02.0  
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PR02.9  
DF02.0  
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ABAS02  
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COST  
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ABAS02  
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ABAS09  
ABAS10  
PR04.0  
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CP04.0  
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CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
CP38.4

CALFAV	2810		785		3427		315		455		950		200	
CALCAR		2.81		.79		3.43		.32		.46		.95		.2
PROFAV	75		18		13.6		16		6		13		10	
PROCAR		75		18		13.6		16		6		13		10
GASFAV	6960		4560		2550		6850		4600		1530		12230	
GASCAR		6960		4560		2550		6850		4600		1530		12230

BAMA.1  
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ABAS09  
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BA06.1  
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BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
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CP38.6  
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CP38.8  
CP38.9  
CP40.1  
CP40.2  
CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9

LOWER  
UPPER

.21	1.08	.37	1.94	.22	1.16	.28	1.43	.13	.69	.36	1.89	.29	1.48
1.27	6.56	2.19	11.4	.67	3.48	.55	2.87	.53	2.76	1.46	7.57	1.14	5.92
Z15.1	Z15.2	Z16.1	Z16.2	Z17.1	Z17.2	Z18.1	Z18.2	Z19.1	Z19.2	Z20.1	Z20.2	Z21.1	Z21.2

COST

Z22.1	Z22.2	Z23.1	Z23.2	Z24.1	Z24.2	Z25.1	Z25.2	Z26.1	Z26.2	Z27.1	Z27.2	Z28.1	Z28.2
20714	20714	22800	22800	16800	16800	15000	15000	16250	16250	25000	25000	22000	22000

PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9

CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8

1	1	1	1	1	1	1	1	1	1	1	1	1	1
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CP38.5  
CP38.6  
CP38.7  
CP38.8  
CP38.9  
CP40.1  
CP40.2  
CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9

BOUND  
BOUND

COST

PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9

CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8

ABAS02  
PRO3.0  
PRO3.2  
PRO3.3  
PRO3.4  
PRO3.5  
PRO3.6  
PRO3.7  
PRO3.8  
PRO3.9  
CP03.1  
CP03.2  
CP03.3  
CP03.4  
CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
BAMA.3  
BAMA.4  
BAMA.5  
BAMA.6  
BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7  
PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
CP04.3  
CP04.4  
CP04.5  
CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2

CP37.9  
ABAS02  
PRO3.0  
PRO3.2  
PRO3.3  
PRO3.4  
PRO3.5  
PRO3.6  
PRO3.7  
PRO3.8  
PRO3.9  
CP03.1  
CP03.2  
CP03.3  
CP03.4  
CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
BAMA.3  
BAMA.4  
BAMA.5  
BAMA.6  
BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7  
PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
CP04.3  
CP04.4  
CP04.5  
CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1



DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9  
CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4  
PR03.5  
PR03.6  
PR03.7  
PR03.8  
PR03.9  
CP03.1  
CP03.2  
CP03.3  
CP03.4  
CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
BAMA.3  
BAMA.4  
BAMA.5  
BAMA.6  
BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9  
CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4  
PR03.5  
PR03.6  
PR03.7  
PR03.8  
PR03.9  
CP03.1  
CP03.2  
CP03.3  
CP03.4  
CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
BAMA.3  
BAMA.4  
BAMA.5  
BAMA.6  
BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7



PR01.0  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9  
CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4  
PR03.5  
PR03.6  
PR03.7  
PR03.8  
PR03.9  
CP03.1  
CP03.2  
CP03.3  
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CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
BAMA.3  
BAMA.4  
BAMA.5  
BAMA.6

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1

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PR01.0  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9  
CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4  
PR03.5  
PR03.6  
PR03.7  
PR03.8  
PR03.9  
CP03.1  
CP03.2  
CP03.3  
CP03.4  
CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
BAMA.3  
BAMA.4  
BAMA.5  
BAMA.6



BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7  
PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
CP04.3  
CP04.4  
CP04.5  
CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
CP38.4  
CP38.5  
CP38.6  
CP38.7  
CP38.8  
CP38.9  
CP40.1

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.0479

9.235

.0479

.0092

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BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7  
PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
CP04.3  
CP04.4  
CP04.5  
CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV  
PROCAR  
GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
CP38.4  
CP38.5  
CP38.6  
CP38.7  
CP38.8  
CP38.9

CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9  
LOWER  
UPPER

48015 270.8 1239 6707

A1 A2 B1 B2 D1 D2 D3 D4 H.08 H.02 H.05 H.06 H.07 H.09

H.10  
64.92

COST  
PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9  
CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4

1

RHS  
0  
<= 3.2  
<= 12  
<= 2.9  
<= 7.9  
<= 4.6  
<= .634  
<= 9  
<= 15.5  
<= 2.5  
= 0  
= 0  
= 0  
= 0  
= 0  
= 0  
= 0  
= 0  
<= 10.1  
<= 35.8  
<= 7.9  
<= 33.8  
<= 8.7  
<= 2.3  
<= 36.7  
<= 22  
<= 15.3  
= 0  
= 0  
= 0  
= 0  
= 0  
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= 0  
= 0  
<= 2.9  
>= 0  
<= 208.6  
<= 45.3  
<= 74.4  
<= 2  
<= 124.5  
<= 215.6  
<= 430.5  
<= 23.4  
= 0  
<= 66.47  
<= 412.37  
<= 91  
<= 68.27

CP40.2  
CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9  
BOUND  
BOUND

COST  
PR01.0  
PR01.2  
PR01.3  
PR01.4  
PR01.5  
PR01.6  
PR01.7  
PR01.8  
PR01.9  
BA08.1  
BA08.2  
BA08.3  
BA08.4  
BA08.6  
BA08.7  
BA08.8  
ABAS08  
PR02.0  
PR02.2  
PR02.3  
PR02.4  
PR02.5  
PR02.6  
PR02.7  
PR02.8  
PR02.9  
DF02.0  
DF02.1  
DF02.2  
DF02.3  
DF02.4  
DF02.5  
DF02.6  
DF02.7  
DF02.8  
DF02.9  
CP37.0  
CP37.1  
CP37.2  
CP37.3  
CP37.4  
CP37.5  
CP37.6  
CP37.7  
CP37.8  
CP37.9  
ABAS02  
PR03.0  
PR03.2  
PR03.3  
PR03.4

PR03.5  
PR03.6  
PR03.7  
PR03.8  
PR03.9  
CP03.1  
CP03.2  
CP03.3  
CP03.4  
CP03.5  
CP03.6  
CP03.7  
CP03.8  
CP03.9  
BAMA.1  
BAMA.2  
BAMA.3  
BAMA.4  
BAMA.5  
BAMA.6  
BAMA.7  
BAMA.8  
BAMA.9  
CP36.1  
CP36.2  
CP36.3  
CP36.4  
CP36.5  
CP36.6  
CP36.7  
CP36.8  
CP36.9  
ABAS09  
ABAS10  
PR04.0  
PR04.2  
PR04.3  
PR04.5  
PR04.6  
PR04.7  
PR04.8  
PR04.9  
CP04.0  
CP04.1  
CP04.2  
CP04.3  
CP04.4  
CP04.5  
CP04.6  
CP04.7  
CP04.8  
CP04.9  
BA06.1  
BA06.2  
BA06.3  
BA06.6  
BA06.8  
BA06.9  
BA07.1  
BA07.2  
ABAS06  
ABAS07  
ABAS05  
CALFAV  
CALCAR  
PROFAV

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<= 100.77 PR03.5  
<= 19.39 PR03.6  
<= 147.62 PR03.7  
<= 325.73 PR03.8  
<= 43.91 PR03.9  
<= 131.4 CP03.1  
<= 268 CP03.2  
<= 240 CP03.3  
<= 9.4 CP03.4  
<= 30.6 CP03.5  
<= 536 CP03.6  
<= 70.2 CP03.7  
<= 1235 CP03.8  
<= 4.8 CP03.9  
= 0 BAMA.1  
= 0 BAMA.2  
= 0 BAMA.3  
= 0 BAMA.4  
= 0 BAMA.5  
= 0 BAMA.6  
= 0 BAMA.7  
= 0 BAMA.8  
= 0 BAMA.9  
<= 137.4 CP36.1  
<= 209 CP36.2  
<= 45.3 CP36.3  
<= 74.4 CP36.4  
<= 1.9 CP36.5  
<= 124.49 CP36.6  
<= 216 CP36.7  
<= 431 CP36.8  
<= 23.4 CP36.9  
= 0 ABAS09  
= 0 ABAS10  
<= .04 PR04.0  
<= 5.15 PR04.2  
<= .33 PR04.3  
<= .03 PR04.5  
<= .28 PR04.6  
<= 1.5 PR04.7  
<= 96.7 PR04.8  
<= .02 PR04.9  
<= 10.2 CP04.0  
<= 131.4 CP04.1  
<= 268.3 CP04.2  
<= 240 CP04.3  
<= 9.4 CP04.4  
<= 30.6 CP04.5  
<= 536 CP04.6  
<= 70.2 CP04.7  
<= 1235 CP04.8  
<= 4.8 CP04.9  
= 0 BA06.1  
= 0 BA06.2  
= 0 BA06.3  
= 0 BA06.6  
= 0 BA06.8  
= 0 BA06.9  
= 0 BA07.1  
= 0 BA07.2  
= 0 ABAS06  
= 0 ABAS07  
= 0 ABAS05  
= 0 CALFAV  
= 0 CALCAR  
= 0 PROFAV

GASFAV  
GASCAR  
DFCLFA  
DFCLCA  
DFPRFA  
DFPRCA  
DFCALT  
DFPROT  
CP38.0  
CP38.1  
CP38.2  
CP38.3  
CP38.4  
CP38.5  
CP38.6  
CP38.7  
CP38.8  
CP38.9  
CP40.1  
CP40.2  
CP40.3  
CP40.4  
CP40.5  
CP40.6  
CP40.7  
CP40.8  
CP40.9  
LOWER  
UPPER

0.10

=	0	PROCAR
>=	0	GASFAV
>=	0	GASCAR
=	0	DFCLFA
=	0	DFCLCA
=	0	DFPRFA
=	0	DFPRCA
=	0	DFCALT
=	0	DFPROT
<=	1.2	CP38.0
<=	101	CP38.1
<=	144.5	CP38.2
<=	19.78	CP38.3
<=	29.99	CP38.4
<=	4.8	CP38.5
<=	245	CP38.6
<=	311.6	CP38.7
<=	329.9	CP38.8
<=	19.41	CP38.9
<=	131.4	CP40.1
<=	268.34	CP40.2
<=	239.9	CP40.3
<=	9.38	CP40.4
<=	30.6	CP40.5
<=	536.1	CP40.6
<=	70.16	CP40.7
<=	1234.5	CP40.8
<=	4.8	CP40.9
		BOUND
		BOUND
		RHS

**RELATÓRIO DE SAÍDA**  
**Modelo COABA 12**

COABA12 SOLUTION IS NOT OPTIMAL DATE 03-01-1985 TIME 01:21:00

INFEASIBLE ENTERS: BASIS X: 55 VARIABLES: 281  
 PIVOTS: 0 LEAVES: BASIS S: 84 SLACKS: 94  
 LAST INV: 0 DELTA 0 COST 292806.2 CONSTRAINTS: 145

BASIS	S.1	S.2	S.3	X14.4	S.5	S.6	S.7	X18.8	S.9
Y08.1	****	Y08.3	S.131	Y08.6	Y08.7	Y08.8	S.135	S.18	X22.2
S.20	X24.4	S.22	S.23	X27.0	X28.8	X29.9	X27.3	Y02.1	S.19
X27.5	X24.6	X27.7	Y02.6	Y02.0	S.25	S.26	S.24	Y06.1	S.39
Y06.3	S.41	S.42	Y06.6	S.44	S.45	Y06.9	S.21	S.48	S.49
X33.3	S.51	X35.5	X36.6	S.54	S.55	X39.1	X39.9	S.58	S.50
S.60	S.52	S.53	S.63	S.64	S.56	S.57	Y09.2	Y09.3	Y10.4
Y10.5	S.62	Y09.7	Y10.8	S.65	S.75	S.76	S.77	S.78	S.79
S.80	S.81	S.82	S.83	S.139	S.141	X40.1	X42.1	X43.1	X45.1
X46.6	X47.1	X48.8	X49.9	S.94	X42.2	S.87	S.97	S.98	S.99
S.100	S.101	S.92	S.103	Y39.1	Y39.2	S.40	S.37	S.102	S.46
S.38	S.138	Y07.1	S.137	Y05.7	Z11.1	S.120	S.119	Z17.2	Z02.1
Z06.2	D1	D2	D3	D4	****	****	S.43	S.128	S.129
S.130	S.4	S.132	S.133	S.134	S.8	S.136	S.95	S.96	S.59
S.140	S.61	S.142	****	****	****				

PRIMAL	3.2	12	2.9	2.206	4.6	.634	9	9.176	2.5
0	0	0	27.78	0	0	6.24	320.7	10.1	0
7.9	0	8.7	2.3	1.2	0	0	0	0	35.8
0	21.42	0	21.42	1.2	22	15.3	35.5	1.212	206.4
0	72.9	1.83	.2156	215.6	419.1	.0154	12.38	66.47	412.4
45.85	68.27	.2499	0	147.6	325.7	0	0	268	45.15
9.4	100.5	19.39	70.2	1235	43.91	131.4	0	1.54	0
.17	536	0	0	4.8	140.9	209	38.76	74.4	1.73
124.5	216	431	23.4	194.1	30.35	.04	1.957	.33	.03
.28	1.5	6.753	.02	10.2	2.821	.3724	240	9.4	30.6
535.7	70.2	89.95	4.78	1.758	0	38.76	1.7	1228	23.38
49.78	265.5	1.67	127.5	.417	2.559	99999	48438	3.295	3.524
7.563	2300	2501	59.35	61.7	0	0	102.9	101	144.5
19.78	5.694	4.8	223.6	311.6	6.324	19.41	127.5	265.5	194.1
9.38	30.35	535.8	0	0	0				

DUAL	0	0	0	0	0	0	0	0	0
213.2	0	687.2	766.2	555.2	590.2	698.2	2534	0	0
0	0	0	0	0	0	0	1845	734	1638
1236	1172	1227	1217	1172	1648	1390	0	0	0
0	0	0	0	0	0	0	2227	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	338.4	278.9	284.6	292.2
284.6	311.1	281.9	285.6	289.3	0	0	0	0	0
0	0	0	0	8112	990.9	-36	0	-17	-6
-51.97	-11	0	-45.12	0	0	0	0	0	0
0	0	0	0	1862	1732	1797	1822	1755	1813
2524	2448	2398	4650	4470	.6113	621.9	1.937	3.533	0
0	0	0	0	0	0	0	-599.7	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

MINIMUM	ENTERS:	BASIS X:	55	VARIABLES:	281
PIVOTS: 28	LEAVES:	BASIS S:	87	SLACKS:	94
LAST INV: 0	DELTA 0	CONST	292806.2	CONSTRAINTS:	145

BASIS	S.1	S.2	S.3	X14.4	S.5	S.6	S.7	X18.8	S.9
Y08.1	****	Y08.3	S.131	Y08.6	Y08.7	Y08.8	S.135	S.18	X22.2
S.20	X24.4	S.22	S.23	X27.0	X28.8	X29.9	X27.3	Y02.1	S.19
X27.5	X24.6	X27.7	Y02.6	Y02.0	S.25	S.26	S.24	Y06.1	S.39
Y06.3	S.41	S.42	Y06.6	S.44	S.45	Y06.9	S.21	S.48	S.55
S.145	S.51	S.49	X36.6	S.54	Z06.2	X39.1	X35.5	S.58	S.50
S.60	S.52	S.53	S.63	S.64	S.56	S.57	Y09.2	S.143	Y10.4
Y10.5	S.62	Y09.7	Y10.8	S.65	S.75	S.76	S.77	S.78	S.79
S.80	S.81	S.82	S.83	S.139	S.141	X40.1	X42.1	X43.1	X45.1
X46.6	X47.1	X48.8	X49.9	S.94	X42.2	S.87	S.97	S.98	S.99
S.100	S.101	S.92	S.103	Y39.1	Y39.2	S.40	S.37	S.102	S.46
S.38	S.138	Y07.1	S.137	Y05.7	Z11.1	S.120	S.119	Z17.2	Z02.1
X33.3	D1	D2	D3	D4	****	****	S.43	S.128	S.129
S.130	S.4	S.132	S.133	S.134	S.8	S.136	S.95	S.96	S.59
S.140	S.61	S.142	Y09.3	S.144	Y09.9				

PRIMAL	3.2	12	2.9	2.206	4.6	.634	9	9.176	2.5
0	0	0	27.78	0	0	6.24	320.7	10.1	0
7.9	0	8.7	2.3	1.2	0	0	0	0	35.8
0	21.42	0	21.42	1.2	22	15.3	35.5	1.212	206.4
0	72.9	1.83	.2156	215.6	419.1	.0154	12.38	66.47	325.7
4.78	68.27	412.4	0	147.6	7.563	0	.2499	268	45.15
9.4	100.5	19.39	70.2	1235	43.91	131.4	0	70.16	0
.17	536	0	0	4.8	140.9	209	38.76	74.4	1.73
124.5	216	431	23.4	194.1	30.35	.04	1.957	.33	.03
.28	1.5	6.753	.02	10.2	2.821	.3724	240	9.4	30.6
535.7	70.2	89.95	4.78	1.758	0	38.76	1.7	1228	23.38
49.78	265.5	1.67	127.5	.417	2.559	99999	48438	3.295	3.524
45.85	2300	2501	59.35	61.7	0	0	102.9	101	144.5
19.78	5.694	4.8	223.6	311.6	6.324	19.41	127.5	265.5	194.1
9.38	30.35	535.8	1.54	1228	0				

DUAL	0	0	0	0	0	0	0	0	0
213.2	0	687.2	766.2	555.2	590.2	698.2	2534	0	0
0	0	0	0	0	0	0	1845	734	1638
1236	1172	1227	1217	1172	1648	1390	0	0	0
0	0	0	0	0	0	0	2227	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	338.4	278.9	284.6	292.2
284.6	311.1	281.9	285.6	281.7	0	0	0	0	0
0	0	0	0	8112	990.9	-36	0	-17	-6
-51.97	-11	0	-45.12	0	0	0	0	0	0
0	0	0	0	1862	1732	1797	1822	1755	1813
2524	2448	2398	4650	4470	.6113	621.9	1.937	3.533	0
0	0	0	0	0	0	0	-599.7	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

CDABA12 SOLUTION IS MINIMUM COST 292806.2 DATE 03-01-1985  
 PRIMAL PROBLEM SOLUTION TIME 02:03:58

VARIABLE	STATUS	VALUE	LOWER	UPPER	COST	VALUE	NET
X10.1	NONBASIS	0	NONE	NONE	544.9	130.0735	414.8265
X10.6	NONBASIS	0	NONE	NONE	531.9	366.4553	165.4447
X12.1	NONBASIS	0	NONE	NONE	546	130.0735	415.9265
X12.2	NONBASIS	0	NONE	NONE	462.9	-.0000061	462.9
X12.3	NONBASIS	0	NONE	NONE	513.4	432.9583	80.44176
X12.6	NONBASIS	0	NONE	NONE	544.9	366.4553	178.4447

X12.8	NONBASIS	0	NONE	NONE	525.2	474.8	50.4
X13.1	NONBASIS	0	NONE	NONE	560.9	130.0735	430.8265
X13.3	NONBASIS	0	NONE	NONE	495.1	432.9583	62.14177
X13.6	NONBASIS	0	NONE	NONE	539.1	366.4553	172.6447
X14.1	NONBASIS	0	NONE	NONE	585.4	130.0735	455.3265
X14.4	BASIS	2.205882	NONE	NONE	521	521	0
X14.6	NONBASIS	0	NONE	NONE	566.1	366.4553	199.6447
X15.1	NONBASIS	0	NONE	NONE	572.7	130.0735	442.6265
X15.3	NONBASIS	0	NONE	NONE	527.4	432.9583	94.44176
X15.6	NONBASIS	0	NONE	NONE	559.3	366.4553	192.8447
X16.1	NONBASIS	0	NONE	NONE	537.8	130.0735	407.7265
X16.6	NONBASIS	0	NONE	NONE	497.4	366.4553	130.9447
X17.1	NONBASIS	0	NONE	NONE	654.9	130.0735	524.8265
X17.3	NONBASIS	0	NONE	NONE	645.4	432.9583	212.4418
X17.4	NONBASIS	0	NONE	NONE	644.4	521	123.4
X17.6	NONBASIS	0	NONE	NONE	678.2	366.4553	311.7447
X17.7	NONBASIS	0	NONE	NONE	582.7	448.5788	134.1212
X18.1	NONBASIS	0	NONE	NONE	569	130.0735	438.9265
X18.2	NONBASIS	0	NONE	NONE	537.1	-.0000244	537.1
X18.3	NONBASIS	0	NONE	NONE	540.1	432.9582	107.1418
X18.6	NONBASIS	0	NONE	NONE	552.6	366.4553	186.1447
X18.8	BASIS	9.17647	NONE	NONE	474.8	474.8	0
X19.1	NONBASIS	0	NONE	NONE	592	130.0735	461.9265
X19.3	NONBASIS	0	NONE	NONE	580	432.9582	147.0418
X19.6	NONBASIS	0	NONE	NONE	584.4	366.4553	217.9447
Y08.1	BASIS	0	NONE	4.3	2321	2321	0
Y08.2	NONBASIS	0	NONE	8.1	2888	2534.235	353.7647
Y08.3	BASIS	0	NONE	23.1	1847	1847	0
Y08.4	*NONBASIS	1.5	NONE	1.5	1340	-911.9412	-428.0588
Y08.6	BASIS	0	NONE	36.4	1979	1979	0
Y08.7	BASIS	0	NONE	89	1944	1944	0
Y08.8	BASIS	6.24	NONE	30.8	1836	1836	0
M08.1	NONBASIS	0	NONE	NONE	3314	2534.235	779.7647
M08.2	NONBASIS	0	NONE	NONE	3738	2534.235	1203.765
Z08.1	NONBASIS	1.25	1.25	5	220.7	-169.5836	390.2836
Z08.2	NONBASIS	6.49	6.49	26	220.7	-16.34599	237.046
X20.0	NONBASIS	0	NONE	NONE	1576	1245	331
X20.1	NONBASIS	0	NONE	NONE	1623	734	889
X20.6	NONBASIS	0	NONE	NONE	1610	1217	393
X22.1	NONBASIS	0	NONE	NONE	1722	734	988
X22.2	BASIS	0	NONE	NONE	1638	1638	0
X22.3	NONBASIS	0	NONE	NONE	1689	1236	453
X22.6	NONBASIS	0	NONE	NONE	1717	1217	500
X22.8	NONBASIS	0	NONE	NONE	1701	1648	53
X22.9	NONBASIS	0	NONE	NONE	1706	1390	316
X23.1	NONBASIS	0	NONE	NONE	1506	734	772
X23.3	NONBASIS	0	NONE	NONE	1440	1236	204
X23.5	NONBASIS	0	NONE	NONE	1473	1227	246
X23.6	NONBASIS	0	NONE	NONE	1484	1217	267
X23.9	NONBASIS	0	NONE	NONE	1478	1390	88
X24.1	NONBASIS	0	NONE	NONE	1236	734	502
X24.4	BASIS	0	NONE	NONE	1172	1172	0
X24.6	BASIS	21.424	NONE	NONE	1217	1217	0
X25.1	NONBASIS	0	NONE	NONE	1518	734	784
X25.3	NONBASIS	0	NONE	NONE	1473	1236	237
X25.5	NONBASIS	0	NONE	NONE	1440	1227	213
X25.6	NONBASIS	0	NONE	NONE	1505	1217	288
X25.9	NONBASIS	0	NONE	NONE	1493	1390	103
X26.1	NONBASIS	0	NONE	NONE	1616	734	882
X26.6	NONBASIS	0	NONE	NONE	1576	1217	359
X26.9	NONBASIS	0	NONE	NONE	1618	1390	228
X27.0	BASIS	1.2	NONE	NONE	1245	1245	0
X27.1	NONBASIS	0	NONE	NONE	1245	734	511
X27.3	BASIS	0	NONE	NONE	1236	1236	0
X27.4	NONBASIS	0	NONE	NONE	1234	1172	62
X27.5	BASIS	0	NONE	NONE	1237	1237	0



X27.6	NONBASIS	0	NONE	NONE	1268	1217	51
X27.7	BASIS	0	NONE	NONE	1172	1172	0
X28.1	NONBASIS	0	NONE	NONE	1742	734	1008
X28.2	NONBASIS	0	NONE	NONE	1711	1638	73
X28.3	NONBASIS	0	NONE	NONE	1714	1236	478
X28.6	NONBASIS	0	NONE	NONE	1726	1217	509
X28.8	BASIS	0	NONE	NONE	1648	1648	0
X28.9	NONBASIS	0	NONE	NONE	1729	1390	339
X29.1	NONBASIS	0	NONE	NONE	1439	734	705
X29.3	NONBASIS	0	NONE	NONE	1427	1236	191
X29.6	NONBASIS	0	NONE	NONE	1432	1217	215
X29.9	BASIS	0	NONE	NONE	1390	1390	0
Y02.0	BASIS	1.2	NONE	1.2	382.3	382.3	0
Y02.1	BASIS	0	NONE	101	1493	1493	0
Y02.2	NONBASIS	0	NONE	144.6	998.8	589	409.8
Y02.3	NONBASIS	0	NONE	19.8	1019	991	28
Y02.4	NONBASIS	0	NONE	30	1662	1055	607
Y02.5	NONBASIS	0	NONE	4.8	1177	1000	177
Y02.6	BASIS	21.424	NONE	245	1010	1010	0
Y02.7	NONBASIS	0	NONE	311.6	1086	1055	31
Y02.8	NONBASIS	0	NONE	330	1002	579	423
Y02.9	NONBASIS	0	NONE	19.4	1084	837	247
Z02.1	BASIS	3.523995	1.23	3.68	274.5	274.5	0
Z02.2	*NONBASIS	19.1	6.35	19.1	274.5	94.4109	-368.9109
X30.1	NONBASIS	0	NONE	NONE	358.5	338.4	20.1
X30.6	NONBASIS	0	NONE	NONE	345.5	311.1	34.4
X32.1	NONBASIS	0	NONE	NONE	388.1	338.4	49.7
X32.2	NONBASIS	0	NONE	NONE	305	278.9	26.1
X32.3	NONBASIS	0	NONE	NONE	355.6	284.6	71
X32.6	NONBASIS	0	NONE	NONE	383.2	311.1	72.1
X32.8	NONBASIS	0	NONE	NONE	367.3	285.6204	81.67959
X32.9	NONBASIS	0	NONE	NONE	372.6	281.66	90.94
X33.1	NONBASIS	0	NONE	NONE	350.3	338.4	11.9
X33.3	BASIS	45.85	NONE	NONE	284.6	284.6	0
X33.5	NONBASIS	0	NONE	NONE	316.9	284.6	32.3
X33.6	NONBASIS	0	NONE	NONE	328.5	311.1	17.4
X33.9	NONBASIS	0	NONE	NONE	321.7	281.66	40.04
X34.1	NONBASIS	0	NONE	NONE	356.8	338.4	18.4
X34.4	NONBASIS	0	NONE	NONE	292.9	292.151	.7489796
X34.6	NONBASIS	0	NONE	NONE	337.5	311.1	26.4
X35.1	NONBASIS	0	NONE	NONE	362.1	338.4	23.7
X35.3	NONBASIS	0	NONE	NONE	316.9	284.6	32.3
X35.5	BASIS	.2498998	NONE	NONE	284.6	284.6	0
X35.6	NONBASIS	0	NONE	NONE	348.7	311.1	37.6
X35.9	NONBASIS	0	NONE	NONE	336.7	281.66	55.04
X36.1	NONBASIS	0	NONE	NONE	351.4	338.4	13
X36.6	BASIS	0	NONE	NONE	311.1	311.1	0
X36.9	NONBASIS	0	NONE	NONE	353.1	281.66	71.44
X37.1	NONBASIS	0	NONE	NONE	356.8	338.4	18.4
X37.3	NONBASIS	0	NONE	NONE	348.3	284.6	63.7
X37.4	NONBASIS	0	NONE	NONE	346.2	292.151	54.04898
X37.5	NONBASIS	0	NONE	NONE	338.9	284.6	54.3
X37.6	NONBASIS	0	NONE	NONE	380.1	311.1	69
X37.7	NONBASIS	0	NONE	NONE	284.6	281.86	2.74
X38.1	NONBASIS	0	NONE	NONE	393.1	338.4	54.7
X38.2	NONBASIS	0	NONE	NONE	361.2	278.9	82.3
X38.3	NONBASIS	0	NONE	NONE	364.2	284.6	79.6
X38.6	NONBASIS	0	NONE	NONE	376.7	311.1	65.6
X38.8	NONBASIS	0	NONE	NONE	298.9	285.6204	13.27959
X38.9	NONBASIS	0	NONE	NONE	379.6	281.66	97.94
X39.1	BASIS	0	NONE	NONE	338.4	338.4	0
X39.3	NONBASIS	0	NONE	NONE	326.5	284.6	41.9
X39.6	NONBASIS	0	NONE	NONE	331.3	311.1	20.2
X39.9	NONBASIS	0	NONE	NONE	289.3	281.66	7.64
Y09.1	NONBASIS	0	NONE	3.5	1215	-347.5	1562.5
Y09.2	BASIS	0	NONE	22.5	1110	1110	0

Y09.3	BASIS	1.54	NONE	5	997.5	997.5	0
Y09.4	NONBASIS	0	NONE	2	1022	808.7245	213.2755
Y09.5	NONBASIS	0	NONE	2	1029	997.5	31.5
Y09.6	NONBASIS	0	NONE	4.5	1310	335	975
Y09.7	BASIS	0	NONE	200	1066	1066	0
Y09.8	NONBASIS	0	NONE	104.9	1028	971.9898	56.0102
Y09.9	BASIS	0	NONE	17.5	1071	1071	0
Y10.1	NONBASIS	0	NONE	3.5	646.3	493.414	152.886
Y10.2	NONBASIS	0	NONE	22.5	638.6	580.879	57.721
Y10.3	*NONBASIS	5	NONE	5	541.5	-510.5	-31
Y10.4	BASIS	0	NONE	2	561.4	561.4	0
Y10.5	BASIS	.1699999	NONE	2	572.5	572.5	0
Y10.6	NONBASIS	0	NONE	4.5	726.1	533.545	192.555
Y10.7	NONBASIS	0	NONE	200	604.6	576.5278	28.0722
Y10.8	BASIS	0	NONE	104.9	571	571	0
Y10.9	NONBASIS	0	NONE	17.5	579	576.8218	2.1782
Y39.1	BASIS	1.757895	NONE	155.4	535.4	535.4	0
Y39.2	BASIS	0	NONE	2.2	618.5	618.5	0
Z09.1	NONBASIS	.25	.25	.75	256.9	-5766.148	6023.048
Z09.2	NONBASIS	1.29	1.29	3.88	256.9	-5578.234	5835.134
Z10.1	*NONBASIS	.84	.28	.84	168.9	929.0209	-1097.921
Z10.2	*NONBASIS	4.33	1.44	4.33	168.9	1092.27	-1261.17
X40.1	BASIS	.04	NONE	NONE	1398	1398	0
X40.6	NONBASIS	0	NONE	NONE	1385	1366.969	18.031
X42.1	BASIS	1.95709	NONE	NONE	1434	1434	0
X42.2	BASIS	2.820513	NONE	NONE	1351	1351	0
X42.3	NONBASIS	0	NONE	NONE	1401	1365.369	35.63138
X42.6	NONBASIS	0	NONE	NONE	1429	1402.969	26.031
X42.8	NONBASIS	0	NONE	NONE	1413	1351	62
X42.9	NONBASIS	0	NONE	NONE	1418	1396.116	21.884
X43.1	BASIS	.33	NONE	NONE	1417	1417	0
X43.3	NONBASIS	0	NONE	NONE	1351	1348.369	2.631377
X43.6	NONBASIS	0	NONE	NONE	1395	1385.969	9.031
X43.9	NONBASIS	0	NONE	NONE	1388	1379.116	8.884
X45.1	BASIS	.03	NONE	NONE	1428	1428	0
X45.3	NONBASIS	0	NONE	NONE	1383	1359.369	23.63138
X45.6	NONBASIS	0	NONE	NONE	1415	1396.969	18.031
X45.9	NONBASIS	0	NONE	NONE	1403	1390.116	12.884
X46.1	NONBASIS	0	NONE	NONE	1391	1382.031	8.969
X46.6	BASIS	.28	NONE	NONE	1351	1351	0
X46.9	NONBASIS	0	NONE	NONE	1393	1344.147	48.853
X47.1	BASIS	1.5	NONE	NONE	1423	1423	0
X47.3	NONBASIS	0	NONE	NONE	1415	1354.369	60.63138
X47.6	NONBASIS	0	NONE	NONE	1446	1391.969	54.031
X48.1	NONBASIS	0	NONE	NONE	1445	1434	11
X48.2	NONBASIS	0	NONE	NONE	1413	1351	62
X48.3	NONBASIS	0	NONE	NONE	1416	1365.369	50.63138
X48.6	NONBASIS	0	NONE	NONE	1429	1402.969	26.031
X48.8	BASIS	6.753246	NONE	NONE	1351	1351	0
X48.9	NONBASIS	0	NONE	NONE	1432	1396.116	35.884
X49.1	NONBASIS	0	NONE	NONE	1400	1388.884	11.116
X49.3	NONBASIS	0	NONE	NONE	1388	1320.253	67.74738
X49.6	NONBASIS	0	NONE	NONE	1393	1357.853	35.147
X49.9	BASIS	.02	NONE	NONE	1351	1351	0
Y06.1	BASIS	1.212064	NONE	155.4	535.4	535.4	0
Y06.2	*NONBASIS	2.2	NONE	2.2	618.5	-571.3136	-47.18638
Y06.3	BASIS	0	NONE	1.37	601.2	601.2	0
Y06.6	BASIS	.2156	NONE	123.7	575.7	575.7	0
Y06.8	*NONBASIS	5.2	NONE	5.2	629.6	-616.0078	-13.59221
Y06.9	BASIS	.0154	NONE	9.1	584.6	584.6	0
Y07.1	BASIS	1.67	NONE	30.3	2126	2126	0
Y07.2	NONBASIS	0	NONE	2.4	2210	2201.443	8.556538
M4.1	NONBASIS	0	NONE	NONE	2026	1434	592
M4.2	NONBASIS	0	NONE	NONE	2151	1351	800
M4.3	NONBASIS	0	NONE	NONE	2125	1365.369	759.6313
M4.6	NONBASIS	0	NONE	NONE	2087	1402.969	184.031

M4.8	NONBASIS	0	NONE	NONE	2168	1351	817
M4.9	NONBASIS	0	NONE	NONE	2100	1396.116	703.884
Z06.1	NONBASIS	1.28	1.28	3.83	232.9	7.131892	225.7681
Z06.2	BASIS	7.563064	6.61	19.9	232.9	232.9	0
Z07.1	NONBASIS	.27	.27	1.6	694.6	-2275.798	2970.398
Z07.2	NONBASIS	1.4	1.4	8.34	694.6	-2016.203	2710.803
Y05.0	NONBASIS	0	NONE	.58	6968	4470	2498
Y05.2	NONBASIS	0	NONE	4.74	5832	4470	1362
Y05.4	NONBASIS	0	NONE	2.73	5338	4470	868
Y05.6	NONBASIS	0	NONE	1.21	7747	4470	3277
Y05.7	BASIS	.417	NONE	2.08	4470	4470	0
Y05.9	NONBASIS	0	NONE	.58	6956	4470	2486
Z05.1	NONBASIS	.067	.067	.27	949.4	-3309.233	4258.633
Z05.2	NONBASIS	.35	.35	1.39	949.4	-3096.499	4045.899
Z11.1	BASIS	2.559206	1.98	2.97	2433	2433	0
Z11.2	*NONBASIS	15.41	10.27	15.41	2433	-2391.023	-41.97694
Z12.1	NONBASIS	.076	.076	.15	21270	3037.34	18232.66
Z12.2	NONBASIS	.39	.39	.79	21270	3343.051	17926.95
Z13.1	*NONBASIS	.87	.29	.87	3435	-1368.241	-2066.759
Z13.2	*NONBASIS	4.51	1.51	4.51	3435	-1273.318	-2161.682
Z15.1	NONBASIS	.21	.21	1.27	4540	1863.08	2676.92
Z15.2	NONBASIS	1.08	1.08	6.56	4540	2012.349	2527.652
Z16.1	NONBASIS	.37	.37	2.19	2020	514.7496	1505.25
Z16.2	NONBASIS	1.94	1.94	11.4	2020	554.8499	1465.15
Z17.1	NONBASIS	.22	.22	.67	2181	2121.297	59.70329
Z17.2	BASIS	3.294734	1.16	3.48	2181	2181	0
Z18.1	NONBASIS	.28	.28	.55	2979	223.5607	2755.439
Z18.2	NONBASIS	1.43	1.43	2.87	2979	255.5137	2723.486
Z19.1	NONBASIS	.13	.13	.53	2354	289.7691	2064.231
Z19.2	NONBASIS	.69	.69	2.76	2354	307.2478	2046.752
Z20.1	NONBASIS	.36	.36	1.46	1986	605.928	1380.072
Z20.2	NONBASIS	1.89	1.89	7.57	1986	636.6838	1349.316
Z21.1	NONBASIS	.29	.29	1.14	2961	141.6357	2819.364
Z21.2	NONBASIS	1.48	1.48	5.92	2961	159.6961	2801.304
Z22.1	NONBASIS	.078	.078	.156	18940	271.3461	18668.65
Z22.2	NONBASIS	.4	.4	.812	18940	302.576	18637.42
Z23.1	NONBASIS	.044	.044	.261	11326	1519.214	9806.786
Z23.2	NONBASIS	.22	.22	1.35	11326	1849.025	9476.976
Z24.1	NONBASIS	.007	.007	.044	18992	1085.413	17906.59
Z24.2	NONBASIS	.038	.038	.23	18992	1432.09	17559.91
Z25.1	NONBASIS	.053	.053	.32	6946	1033.94	5912.06
Z25.2	NONBASIS	.28	.28	1.66	6946	1359.427	5586.573
Z26.1	NONBASIS	.05	.05	.32	6932	775.7868	6156.213
Z26.2	NONBASIS	.11	.11	1.65	6932	1020.298	5911.702
Z27.1	NONBASIS	.003	.003	.02	6715	1033.94	5681.06
Z27.2	NONBASIS	.02	.02	.1	6715	1361.293	5353.707
Z28.1	NONBASIS	.02	.02	.1	6788	1033.94	5754.06
Z28.2	NONBASIS	.09	.09	.54	6788	1361.293	5426.707
Z29.1	NONBASIS	0	NONE	.193	18246	2092.802	16153.2
Z29.2	NONBASIS	0	NONE	1.003	18246	2317.871	15928.13
Z30.1	NONBASIS	.006	.006	.42	21240	1454.736	19785.26
Z30.2	NONBASIS	.03	.03	2.17	21240	1799.976	19440.02
Z31.1	NONBASIS	.07	.07	.27	9847	4409.157	5437.843
Z31.2	NONBASIS	.35	.35	1.38	9847	4491.476	5355.524
Z32.1	NONBASIS	.22	.22	.22	17645	347.5078	17297.49
Z32.2	NONBASIS	1.13	1.13	1.36	17645	431.5867	17213.41
Z33.1	NONBASIS	0	NONE	.025	25049	2172.307	22876.69
Z33.2	NONBASIS	0	NONE	.13	25049	2334.719	22714.28
Z34.1	NONBASIS	0	NONE	.025	3426	2202.074	1223.926
Z34.2	NONBASIS	0	NONE	.13	3426	2382.482	1043.518
Z35.1	NONBASIS	1	1	2	1663	442.6449	1220.355
Z35.2	NONBASIS	5.2	5.2	10.41	1663	506.5019	1156.498
A1	NONBASIS	48015	48015	NONE	0	-.6113065	.6113065
A2	NONBASIS	270.8	270.8	NONE	0	-621.8535	621.8535
B1	NONBASIS	1239	1239	NONE	0	-1.937443	1.937443
B2	NONBASIS	4707	4707	NONE	0	-2.502507	2.502507

D1	BASIS	2277.918	NONE	NONE	0	0	0
D2	BASIS	2500.838	NONE	NONE	0	0	0
D3	BASIS	59.3481	NONE	NONE	0	0	0
D4	BASIS	61.7044	NONE	NONE	0	0	0
H.08	NONBASIS	0	NONE	NONE	397.4	-2534.235	2931.635
H.02	NONBASIS	0	NONE	NONE	397.4	-2227	2624.4
H.05	NONBASIS	0	NONE	NONE	556.5	-4470	5026.5
H.06	NONBASIS	0	NONE	NONE	191.2	-2397.738	2588.938
H.07	NONBASIS	0	NONE	NONE	513.2	-4649.935	5163.134
H.09	NONBASIS	0	NONE	NONE	226.1	-8112.5	8338.6
H.10	NONBASIS	0	NONE	NONE	147.9	-990.862	1138.762
S.1	BASIS	3.2	NONE	NONE	0	0	0
S.2	BASIS	12	NONE	NONE	0	0	0
S.3	BASIS	2.9	NONE	NONE	0	0	0
S.4	BASIS	5.694118	NONE	NONE	0	0	0
S.5	BASIS	4.6	NONE	NONE	0	0	0
S.6	BASIS	.634	NONE	NONE	0	0	0
S.7	BASIS	9	NONE	NONE	0	0	0
S.8	BASIS	6.32353	NONE	NONE	0	0	0
S.9	BASIS	2.5	NONE	NONE	0	0	0
S.18	BASIS	10.1	NONE	NONE	0	0	0
S.19	BASIS	35.8	NONE	NONE	0	0	0
S.20	BASIS	7.9	NONE	NONE	0	0	0
S.21	BASIS	12.376	NONE	NONE	0	0	0
S.22	BASIS	8.7	NONE	NONE	0	0	0
S.23	BASIS	2.3	NONE	NONE	0	0	0
S.24	BASIS	35.5	NONE	NONE	0	0	0
S.25	BASIS	22	NONE	NONE	0	0	0
S.26	BASIS	15.3	NONE	NONE	0	0	0
S.37	BASIS	1.7	NONE	NONE	0	0	0
S.38	BASIS	49.78101	NONE	NONE	0	0	0
S.39	BASIS	206.4	NONE	NONE	0	0	0
S.40	BASIS	38.76	NONE	NONE	0	0	0
S.41	BASIS	72.9	NONE	NONE	0	0	0
S.42	BASIS	1.83	NONE	NONE	0	0	0
S.43	BASIS	102.8604	NONE	NONE	0	0	0
S.44	BASIS	215.6	NONE	NONE	0	0	0
S.45	BASIS	419.06	NONE	NONE	0	0	0
S.46	BASIS	23.3846	NONE	NONE	0	0	0
S.48	BASIS	66.47	NONE	NONE	0	0	0
S.49	BASIS	412.37	NONE	NONE	0	0	0
S.50	BASIS	45.15	NONE	NONE	0	0	0
S.51	BASIS	68.27	NONE	NONE	0	0	0
S.52	BASIS	100.5201	NONE	NONE	0	0	0
S.53	BASIS	19.39	NONE	NONE	0	0	0
S.54	BASIS	147.62	NONE	NONE	0	0	0
S.55	BASIS	325.73	NONE	NONE	0	0	0
S.56	BASIS	43.91	NONE	NONE	0	0	0
S.57	BASIS	131.4	NONE	NONE	0	0	0
S.58	BASIS	268	NONE	NONE	0	0	0
S.59	BASIS	194.15	NONE	NONE	0	0	0
S.60	BASIS	9.4	NONE	NONE	0	0	0
S.61	BASIS	30.3501	NONE	NONE	0	0	0
S.62	BASIS	536	NONE	NONE	0	0	0
S.63	BASIS	70.2	NONE	NONE	0	0	0
S.64	BASIS	1235	NONE	NONE	0	0	0
S.65	BASIS	4.8	NONE	NONE	0	0	0
S.75	BASIS	140.9	NONE	NONE	0	0	0
S.76	BASIS	209	NONE	NONE	0	0	0
S.77	BASIS	38.76	NONE	NONE	0	0	0
S.78	BASIS	74.4	NONE	NONE	0	0	0
S.79	BASIS	1.73	NONE	NONE	0	0	0
S.80	BASIS	124.49	NONE	NONE	0	0	0
S.81	BASIS	216	NONE	NONE	0	0	0
S.82	BASIS	431	NONE	NONE	0	0	0
S.83	BASIS	23.4	NONE	NONE	0	0	0

S.86	NONBASIS	0	NONE	NONE	0	-36	36
S.87	BASIS	.3723975	NONE	NONE	0	0	0
S.88	NONBASIS	0	NONE	NONE	0	-17	17
S.89	NONBASIS	0	NONE	NONE	0	-6	6
S.90	NONBASIS	0	NONE	NONE	0	-51.969	51.969
S.91	NONBASIS	0	NONE	NONE	0	-11	11
S.92	BASIS	89.94675	NONE	NONE	0	0	0
S.93	NONBASIS	0	NONE	NONE	0	-45.116	45.116
S.94	BASIS	10.2	NONE	NONE	0	0	0
S.95	BASIS	127.5429	NONE	NONE	0	0	0
S.96	BASIS	265.4795	NONE	NONE	0	0	0
S.97	BASIS	240	NONE	NONE	0	0	0
S.98	BASIS	9.4	NONE	NONE	0	0	0
S.99	BASIS	30.6	NONE	NONE	0	0	0
S.100	BASIS	535.72	NONE	NONE	0	0	0
S.101	BASIS	70.2	NONE	NONE	0	0	0
S.102	BASIS	1228.247	NONE	NONE	0	0	0
S.103	BASIS	4.78	NONE	NONE	0	0	0
S.119	BASIS	48438.16	NONE	NONE	0	0	0
S.120	BASIS	263929.6	NONE	NONE	0	0	0
S.127	NONBASIS	0	NONE	NONE	0	-599.7	599.7
S.128	BASIS	101	NONE	NONE	0	0	0
S.129	BASIS	144.5	NONE	NONE	0	0	0
S.130	BASIS	19.78	NONE	NONE	0	0	0
S.131	BASIS	27.78412	NONE	NONE	0	0	0
S.132	BASIS	4.8	NONE	NONE	0	0	0
S.133	BASIS	223.576	NONE	NONE	0	0	0
S.134	BASIS	311.6	NONE	NONE	0	0	0
S.135	BASIS	320.7235	NONE	NONE	0	0	0
S.136	BASIS	19.41	NONE	NONE	0	0	0
S.137	BASIS	127.5429	NONE	NONE	0	0	0
S.138	BASIS	265.5195	NONE	NONE	0	0	0
S.139	BASIS	194.05	NONE	NONE	0	0	0
S.140	BASIS	9.38	NONE	NONE	0	0	0
S.141	BASIS	30.3501	NONE	NONE	0	0	0
S.142	BASIS	535.82	NONE	NONE	0	0	0
S.143	BASIS	70.16	NONE	NONE	0	0	0
S.144	BASIS	1227.747	NONE	NONE	0	0	0
S.145	BASIS	4.78	NONE	NONE	0	0	0

COABA12 SOLUTION IS MINIMUM COST 292806.2 DATE 03-01-1985  
DUAL PROBLEM SOLUTION TIME 02:04:45

ROW ID	STATUS	DUAL VALUE	RHS VALUE	USAGE	SLACK
PR01.0	NONBINDING	0	3.2	0	3.2
PR01.2	NONBINDING	0	12	0	12
PR01.3	NONBINDING	0	2.9	0	2.9
PR01.4	NONBINDING	0	7.9	2.205882	5.694118
PR01.5	NONBINDING	0	4.6	0	4.6
PR01.6	NONBINDING	0	.634	0	.634
PR01.7	NONBINDING	0	9	0	9
PR01.8	NONBINDING	0	15.5	9.17647	6.32353
PR01.9	NONBINDING	0	2.5	0	2.5
BA08.1	BINDING	213.2353	0	0	0
BA08.2	NONBINDING	0	0	0	0
BA08.3	BINDING	687.2353	0	0	0
BA08.4	BINDING	766.1765	0	0	0
BA08.6	BINDING	555.2353	0	0	0
BA08.7	BINDING	590.2353	0	0	0
BA08.8	BINDING	698.2353	0	0	0
ABAS08	BINDING	2534.235	0	0	0
PR02.0	NONBINDING	0	10.1	0	10.1
PR02.2	NONBINDING	0	35.8	0	35.8

PR02.4	NONBINDING	0	33.8	21.424	12.376
PR02.5	NONBINDING	0	8.7	0	8.7
PR02.6	NONBINDING	0	2.3	0	2.3
PR02.7	NONBINDING	0	36.7	1.2	35.5
PR02.8	NONBINDING	0	22	0	22
PR02.9	NONBINDING	0	15.3	0	15.3
DF02.0	BINDING	1844.7	0	0	0
DF02.1	BINDING	734	0	0	0
DF02.2	BINDING	1638	0	0	0
DF02.3	BINDING	1236	0	0	0
DF02.4	BINDING	1172	0	0	0
DF02.5	BINDING	1227	0	0	0
DF02.6	BINDING	1217	0	0	0
DF02.7	BINDING	1172	0	0	0
DF02.8	BINDING	1648	0	0	0
DF02.9	BINDING	1390	0	0	0
CP37.0	NONBINDING	0	2.9	1.2	1.7
CP37.1	NONBINDING	0	0	49.78101	-49.78101
CP37.2	NONBINDING	0	208.6	2.2	206.4
CP37.3	NONBINDING	0	45.3	6.54	38.76
CP37.4	NONBINDING	0	74.4	1.5	72.9
CP37.5	NONBINDING	0	2	.16999999	1.83
CP37.6	NONBINDING	0	124.5	21.6396	102.8604
CP37.7	NONBINDING	0	215.6	0	215.6
CP37.8	NONBINDING	0	430.5	11.44	419.06
CP37.9	NONBINDING	0	23.4	.0154	23.3846
ABAS02	BINDING	2227	0	0	0
PR03.0	NONBINDING	0	66.47	0	66.47
PR03.2	NONBINDING	0	412.37	0	412.37
PR03.3	NONBINDING	0	91	45.85	45.15
PR03.4	NONBINDING	0	68.27	0	68.27
PR03.5	NONBINDING	0	100.77	.2498998	100.5201
PR03.6	NONBINDING	0	19.39	0	19.39
PR03.7	NONBINDING	0	147.62	0	147.62
PR03.8	NONBINDING	0	325.73	0	325.73
PR03.9	NONBINDING	0	43.91	0	43.91
CP03.1	NONBINDING	0	131.4	0	131.4
CP03.2	NONBINDING	0	268	0	268
CP03.3	NONBINDING	0	240	45.85	194.15
CP03.4	NONBINDING	0	9.4	0	9.4
CP03.5	NONBINDING	0	30.6	.2498998	30.3501
CP03.6	NONBINDING	0	536	0	536
CP03.7	NONBINDING	0	70.2	0	70.2
CP03.8	NONBINDING	0	1235	0	1235
CP03.9	NONBINDING	0	4.8	0	4.8
BAMA.1	BINDING	338.4	0	0	0
BAMA.2	BINDING	276.9	0	0	0
BAMA.3	BINDING	284.6	0	0	0
BAMA.4	BINDING	292.151	0	0	0
BAMA.5	BINDING	284.6	0	0	0
BAMA.6	BINDING	311.1	0	0	0
BAMA.7	BINDING	281.86	0	0	0
BAMA.8	BINDING	285.6204	0	0	0
BAMA.9	BINDING	281.66	0	0	0
CP36.1	NONBINDING	0	137.4	0	137.4
CP36.2	NONBINDING	0	209	0	209
CP36.3	NONBINDING	0	45.3	6.54	38.76
CP36.4	NONBINDING	0	74.4	0	74.4
CP36.5	NONBINDING	0	1.9	.16999999	1.73
CP36.6	NONBINDING	0	124.49	0	124.49
CP36.7	NONBINDING	0	216	0	216
CP36.8	NONBINDING	0	431	0	431
CP36.9	NONBINDING	0	23.4	0	23.4
ABAS09	BINDING	8112.5	0	0	0
ABAS10	BINDING	990.847	0	0	0

PR04.0	BINDING	-36	.04	0	0
PR04.2	NONBINDING	0	5.15	4.777603	.3723975
PR04.3	BINDING	-17	.33	.33	0
PR04.5	BINDING	-6	.03	.03	0
PR04.6	BINDING	-51.969	.28	.28	0
PR04.7	BINDING	-11	1.5	1.5	0
PR04.8	NONBINDING	0	96.7	6.753246	89.94675
PR04.9	BINDING	-45.116	.02	.02	0
CP04.0	NONBINDING	0	10.2	0	10.2
CP04.1	NONBINDING	0	131.4	3.85709	127.5429
CP04.2	NONBINDING	0	268.3	2.820513	265.4795
CP04.3	NONBINDING	0	240	0	240
CP04.4	NONBINDING	0	9.4	0	9.4
CP04.5	NONBINDING	0	30.6	0	30.6
CP04.6	NONBINDING	0	536	.28	535.72
CP04.7	NONBINDING	0	70.2	0	70.2
CP04.8	NONBINDING	0	1235	6.753246	1228.247
CP04.9	NONBINDING	0	4.8	.02	4.78
BA06.1	BINDING	1862.338	0	0	0
BA06.2	BINDING	1732.051	0	0	0
BA06.3	BINDING	1796.538	0	0	0
BA06.6	BINDING	1822.038	0	0	0
BA06.8	BINDING	1754.545	0	0	0
BA06.9	BINDING	1813.138	0	0	0
BA07.1	BINDING	2523.934	0	0	0
BA07.2	BINDING	2448.491	0	0	0
ABAS06	BINDING	2397.738	0	0	0
ABAS07	BINDING	4649.935	0	0	0
ABAS05	BINDING	4470	0	0	0
CALFAV	BINDING	.6113065	0	0	0
CALCAR	BINDING	621.8535	0	0	0
PROFAV	BINDING	1.937443	0	0	0
PROCAR	BINDING	3.532536	0	0	0
GASFAV	NONBINDING	0	0	48438.16	-48438.16
GASCAR	NONBINDING	0	0	263929.6	-263929.6
DFCLFA	NONBINDING	0	0	0	0
DFCLCA	NONBINDING	0	0	0	0
DFPRFA	NONBINDING	0	0	0	0
DFPRCA	NONBINDING	0	0	0	0
DFCALT	NONBINDING	0	0	0	0
DFPROT	NONBINDING	0	0	0	0
CP38.0	BINDING	-599.7	1.2	1.2	0
CP38.1	NONBINDING	0	101	0	101
CP38.2	NONBINDING	0	144.5	0	144.5
CP38.3	NONBINDING	0	19.78	0	19.78
CP38.4	NONBINDING	0	29.99	2.205882	27.78412
CP38.5	NONBINDING	0	4.8	0	4.8
CP38.6	NONBINDING	0	245	21.424	223.576
CP38.7	NONBINDING	0	311.6	0	311.6
CP38.8	NONBINDING	0	329.9	9.17647	320.7235
CP38.9	NONBINDING	0	19.41	0	19.41
CP40.1	NONBINDING	0	131.4	3.85709	127.5429
CP40.2	NONBINDING	0	268.34	2.820513	265.5195
CP40.3	NONBINDING	0	239.9	45.85	194.05
CP40.4	NONBINDING	0	9.38	0	9.38
CP40.5	NONBINDING	0	30.6	.2498998	30.3501
CP40.6	NONBINDING	0	536.1	.28	535.82
CP40.7	NONBINDING	0	70.16	0	70.16
CP40.8	NONBINDING	0	1234.5	6.753246	1227.747
CP40.9	NONBINDING	0	4.8	.02	4.78

VARIABLE	STATUS	VALUE	COST /UNIT	MINIMUM	MAXIMUM
X10.1	NONBASIS	0	544.9	130.0735	NONE
X10.6	NONBASIS	0	531.9	366.4553	NONE
X12.1	NONBASIS	0	546	130.0735	NONE
X12.2	NONBASIS	0	462.9	-.0000061	NONE
X12.3	NONBASIS	0	513.4	432.9583	NONE
X12.6	NONBASIS	0	541.1	366.4553	NONE
X12.8	NONBASIS	0	525.2	474.8	NONE
X13.1	NONBASIS	0	560.9	130.0735	NONE
X13.3	NONBASIS	0	495.1	432.9583	NONE
X13.6	NONBASIS	0	539.1	366.4553	NONE
X14.1	NONBASIS	0	585.4	130.0735	NONE
X14.4	BASIS	2.205882	521	229.92	644.4
X14.6	NONBASIS	0	566.1	366.4553	NONE
X15.1	NONBASIS	0	572.7	130.0735	NONE
X15.3	NONBASIS	0	527.4	432.9583	NONE
X15.6	NONBASIS	0	559.3	366.4553	NONE
X16.1	NONBASIS	0	537.8	130.0735	NONE
X16.6	NONBASIS	0	497.4	366.4553	NONE
X17.1	NONBASIS	0	654.9	130.0735	NONE
X17.3	NONBASIS	0	645.4	432.9583	NONE
X17.4	NONBASIS	0	644.4	521	NONE
X17.6	NONBASIS	0	678.2	366.4553	NONE
X17.7	NONBASIS	0	582.7	448.5788	NONE
X18.1	NONBASIS	0	569	130.0735	NONE
X18.2	NONBASIS	0	537.1	-.0000244	NONE
X18.3	NONBASIS	0	540.1	432.9582	NONE
X18.6	NONBASIS	0	552.6	366.4553	NONE
X18.8	BASIS	9.17647	474.8	313.6087	525.2
X19.1	NONBASIS	0	592	130.0735	NONE
X19.3	NONBASIS	0	580	432.9582	NONE
X19.6	NONBASIS	0	584.4	366.4553	NONE
Y08.1	BASIS	0	2321	1652.596	NONE
Y08.2	NONBASIS	0	2888	2534.235	NONE
Y08.3	BASIS	0	1847	1748.362	NONE
Y08.4	*NONBASIS	1.5	1340	911.9412	NONE
Y08.6	BASIS	0	1979	1780.599	NONE
Y08.7	BASIS	0	1944	1767.525	NONE
Y08.8	BASIS	6.24	1836	1598.954	1934.638
M08.1	NONBASIS	0	3314	2534.235	NONE
M08.2	NONBASIS	0	3738	2534.235	NONE
Z08.1	NONBASIS	1.25	220.7	-169.5836	NONE
Z08.2	NONBASIS	6.49	220.7	-16.34599	NONE
X20.0	NONBASIS	0	1576	1245	NONE
X20.1	NONBASIS	0	1623	734	NONE
X20.6	NONBASIS	0	1610	1217	NONE
X22.1	NONBASIS	0	1722	734	NONE
X22.2	BASIS	0	1638	1228.2	1711
X22.3	NONBASIS	0	1689	1236	NONE
X22.6	NONBASIS	0	1717	1217	NONE
X22.8	NONBASIS	0	1701	1648	NONE
X22.9	NONBASIS	0	1706	1390	NONE
X23.1	NONBASIS	0	1506	734	NONE
X23.3	NONBASIS	0	1440	1236	NONE
X23.5	NONBASIS	0	1473	1227	NONE
X23.6	NONBASIS	0	1484	1217	NONE
X23.9	NONBASIS	0	1478	1390	NONE
X24.1	NONBASIS	0	1236	734	NONE
X24.4	BASIS	0	1172	565	1234
X24.6	BASIS	21.424	1217	848.0891	1245
X25.1	NONBASIS	0	1518	734	NONE
X25.3	NONBASIS	0	1473	1236	NONE
X25.5	NONBASIS	0	1440	1227	NONE
X25.6	NONBASIS	0	1505	1217	NONE
X25.9	NONBASIS	0	1400	1000	NONE



X26.1	NONBASIS	0	1616	734	NONE
X26.6	NONBASIS	0	1576	1217	NONE
X26.9	NONBASIS	0	1618	1390	NONE
X27.0	BASIS	1.2	1245	NONE	1576
X27.1	NONBASIS	0	1245	734	NONE
X27.3	BASIS	0	1236	1208	1427
X27.4	NONBASIS	0	1234	1172	NONE
X27.5	BASIS	0	1227	1050	1440
X27.6	NONBASIS	0	1268	1217	NONE
X27.7	BASIS	0	1172	1141	NONE
X28.1	NONBASIS	0	1742	734	NONE
X28.2	NONBASIS	0	1711	1638	NONE
X28.3	NONBASIS	0	1714	1236	NONE
X28.6	NONBASIS	0	1726	1217	NONE
X28.8	BASIS	0	1648	1225	1701
X28.9	NONBASIS	0	1729	1390	NONE
X29.1	NONBASIS	0	1439	734	NONE
X29.3	NONBASIS	0	1427	1236	NONE
X29.6	NONBASIS	0	1432	1217	NONE
X29.9	BASIS	0	1390	1143	1478
Y02.0	BASIS	1.2	382.3	NONE	982
Y02.1	BASIS	0	1493	991	NONE
Y02.2	NONBASIS	0	998.8	589	NONE
Y02.3	NONBASIS	0	1019	991	NONE
Y02.4	NONBASIS	0	1662	1055	NONE
Y02.5	NONBASIS	0	1177	1000	NONE
Y02.6	BASIS	21.424	1010	641.0891	1038
Y02.7	NONBASIS	0	1086	1055	NONE
Y02.8	NONBASIS	0	1002	579	NONE
Y02.9	NONBASIS	0	1084	837	NONE
Z02.1	BASIS	3.523995	274.5	-126.5508	670.5508
Z02.2	*NONBASIS	19.1	274.5	-94.4109	NONE
X30.1	NONBASIS	0	358.5	338.4	NONE
X30.6	NONBASIS	0	345.5	311.1	NONE
X32.1	NONBASIS	0	388.1	338.4	NONE
X32.2	NONBASIS	0	305	278.9	NONE
X32.3	NONBASIS	0	355.6	284.6	NONE
X32.6	NONBASIS	0	383.2	311.1	NONE
X32.8	NONBASIS	0	367.3	285.6204	NONE
X32.9	NONBASIS	0	372.6	281.66	NONE
X33.1	NONBASIS	0	350.3	338.4	NONE
X33.3	BASIS	45.85	284.6	283.1182	285.86
X33.5	NONBASIS	0	316.9	284.6	NONE
X33.6	NONBASIS	0	328.5	311.1	NONE
X33.9	NONBASIS	0	321.7	281.66	NONE
X34.1	NONBASIS	0	356.8	338.4	NONE
X34.4	NONBASIS	0	292.9	292.151	NONE
X34.6	NONBASIS	0	337.5	311.1	NONE
X35.1	NONBASIS	0	362.1	338.4	NONE
X35.3	NONBASIS	0	316.9	284.6	NONE
X35.5	BASIS	.2498998	284.6	283.34	285.349
X35.6	NONBASIS	0	348.7	311.1	NONE
X35.9	NONBASIS	0	336.7	281.66	NONE
X36.1	NONBASIS	0	351.4	338.4	NONE
X36.6	BASIS	0	311.1	272.1	328.5
X36.9	NONBASIS	0	353.1	281.66	NONE
X37.1	NONBASIS	0	356.8	338.4	NONE
X37.3	NONBASIS	0	348.3	284.6	NONE
X37.4	NONBASIS	0	346.2	292.151	NONE
X37.5	NONBASIS	0	338.9	284.6	NONE
X37.6	NONBASIS	0	380.1	311.1	NONE
X37.7	NONBASIS	0	284.6	281.86	NONE
X38.1	NONBASIS	0	393.1	338.4	NONE
X38.2	NONBASIS	0	361.2	278.9	NONE
X38.3	NONBASIS	0	364.2	284.6	NONE
X38.6	NONBASIS	0	371.7	311.1	NONE

X38.9	NONBASIS	0	379.6	281.66	NONE
X39.1	BASIS	0	338.4	275.9	350.3
X39.3	NONBASIS	0	326.5	284.6	NONE
X39.6	NONBASIS	0	331.3	311.1	NONE
X39.9	NONBASIS	0	289.3	281.66	NONE
Y09.1	NONBASIS	0	1215	-347.5	NONE
Y09.2	BASIS	0	1140	487.5	2121.65
Y09.3	BASIS	1.54	997.5	960.4558	1029
Y09.4	NONBASIS	0	1022	808.7245	NONE
Y09.5	NONBASIS	0	1029	997.5	NONE
Y09.6	NONBASIS	0	1310	335	NONE
Y09.7	BASIS	0	1066	997.5	1543.418
Y09.8	NONBASIS	0	1028	971.9898	NONE
Y09.9	BASIS	0	1071	880	1108.044
Y10.1	NONBASIS	0	646.3	493.414	NONE
Y10.2	NONBASIS	0	638.6	580.879	NONE
Y10.3	*NONBASIS	5	541.5	510.5	NONE
Y10.4	BASIS	0	561.4	560.299	573.9406
Y10.5	BASIS	.1699999	572.5	569.2066	573.601
Y10.6	NONBASIS	0	726.1	533.545	NONE
Y10.7	NONBASIS	0	604.6	576.5278	NONE
Y10.8	BASIS	0	571	551.479	574.2934
Y10.9	NONBASIS	0	579	576.8218	NONE
Y39.1	BASIS	1.757895	535.4	-2039.863	543.5287
Y39.2	BASIS	0	618.5	610.2857	NONE
Z09.1	NONBASIS	.25	256.9	-5766.148	NONE
Z09.2	NONBASIS	1.29	256.9	-5578.234	NONE
Z10.1	*NONBASIS	.84	168.9	-929.0209	NONE
Z10.2	*NONBASIS	4.33	168.9	-1092.27	NONE
X40.1	BASIS	.04	1398	NONE	1416.031
X40.6	NONBASIS	0	1385	1366.969	NONE
X42.1	BASIS	1.95709	1434	1428	1440.259
X42.2	BASIS	2.820513	1351	1344.593	1413
X42.3	NONBASIS	0	1401	1365.369	NONE
X42.6	NONBASIS	0	1429	1402.969	NONE
X42.8	NONBASIS	0	1413	1351	NONE
X42.9	NONBASIS	0	1418	1396.116	NONE
X43.1	BASIS	.33	1417	NONE	1419.631
X43.3	NONBASIS	0	1351	1348.369	NONE
X43.6	NONBASIS	0	1395	1385.969	NONE
X43.9	NONBASIS	0	1388	1379.116	NONE
X45.1	BASIS	.03	1428	NONE	1434
X45.3	NONBASIS	0	1383	1359.369	NONE
X45.6	NONBASIS	0	1415	1396.969	NONE
X45.9	NONBASIS	0	1403	1390.116	NONE
X46.1	NONBASIS	0	1391	1382.031	NONE
X46.6	BASIS	.28	1351	NONE	1359.969
X46.9	NONBASIS	0	1393	1344.147	NONE
X47.1	BASIS	1.5	1423	NONE	1434
X47.3	NONBASIS	0	1415	1354.369	NONE
X47.6	NONBASIS	0	1446	1391.969	NONE
X48.1	NONBASIS	0	1445	1434	NONE
X48.2	NONBASIS	0	1413	1351	NONE
X48.3	NONBASIS	0	1416	1365.369	NONE
X48.6	NONBASIS	0	1429	1402.969	NONE
X48.8	BASIS	6.753246	1351	1340.534	1413
X48.9	NONBASIS	0	1432	1396.116	NONE
X49.1	NONBASIS	0	1400	1388.884	NONE
X49.3	NONBASIS	0	1388	1320.253	NONE
X49.6	NONBASIS	0	1393	1357.853	NONE
X49.9	BASIS	.02	1351	NONE	1362.116
Y06.1	BASIS	1.212064	535.4	523.752	538.8624
Y06.2	*NONBASIS	2.2	618.5	571.3136	NONE
Y06.3	BASIS	0	601.2	597.7377	NONE
Y06.6	BASIS	2154	575.7	512.0711	507.0101

Y06.9	BASIS	.0154	584.6	573.0623	599.0363
Y07.1	BASIS	1.67	2126	-584.8033	2134.557
Y07.2	NONBASIS	0	2210	2201.443	NONE
M4.1	NONBASIS	0	2026	1434	NONE
M4.2	NONBASIS	0	2151	1351	NONE
M4.3	NONBASIS	0	2125	1365.369	NONE
M4.6	NONBASIS	0	2087	1402.969	NONE
M4.8	NONBASIS	0	2168	1351	NONE
M4.9	NONBASIS	0	2100	1396.116	NONE
Z06.1	NONBASIS	1.28	232.9	7.131892	NONE
Z06.2	BASIS	7.563064	232.9	-43.43375	431.1006
Z07.1	NONBASIS	.27	694.6	-2275.798	NONE
Z07.2	NONBASIS	1.4	694.6	-2016.203	NONE
Y05.0	NONBASIS	0	6968	4470	NONE
Y05.2	NONBASIS	0	5832	4470	NONE
Y05.4	NONBASIS	0	5338	4470	NONE
Y05.6	NONBASIS	0	7747	4470	NONE
Y05.7	BASIS	.417	4470	424.1006	5338
Y05.9	NONBASIS	0	6956	4470	NONE
Z05.1	NONBASIS	.067	949.4	-3309.233	NONE
Z05.2	NONBASIS	.35	949.4	-3096.499	NONE
Z11.1	BASIS	2.559206	2433	0	2507.227
Z11.2	*NONBASIS	15.41	2433	2391.023	NONE
Z12.1	NONBASIS	.076	21270	3037.34	NONE
Z12.2	NONBASIS	.39	21270	3343.051	NONE
Z13.1	*NONBASIS	.87	3435	1368.241	NONE
Z13.2	*NONBASIS	4.51	3435	1273.318	NONE
Z15.1	NONBASIS	.21	4540	1863.08	NONE
Z15.2	NONBASIS	1.08	4540	2012.349	NONE
Z16.1	NONBASIS	.37	2020	514.7496	NONE
Z16.2	NONBASIS	1.94	2020	554.8499	NONE
Z17.1	NONBASIS	.22	2181	2121.297	NONE
Z17.2	BASIS	3.294734	2181	1783.865	2212.849
Z18.1	NONBASIS	.28	2979	223.5607	NONE
Z18.2	NONBASIS	1.43	2979	255.5137	NONE
Z19.1	NONBASIS	.13	2354	289.7691	NONE
Z19.2	NONBASIS	.69	2354	307.2478	NONE
Z20.1	NONBASIS	.36	1986	605.928	NONE
Z20.2	NONBASIS	1.89	1986	636.6838	NONE
Z21.1	NONBASIS	.29	2961	141.6357	NONE
Z21.2	NONBASIS	1.48	2961	159.6961	NONE
Z22.1	NONBASIS	.078	18940	271.3461	NONE
Z22.2	NONBASIS	.4	18940	302.576	NONE
Z23.1	NONBASIS	.044	11326	1519.214	NONE
Z23.2	NONBASIS	.22	11326	1849.025	NONE
Z24.1	NONBASIS	.007	18992	1085.413	NONE
Z24.2	NONBASIS	.038	18992	1432.09	NONE
Z25.1	NONBASIS	.053	6946	1033.94	NONE
Z25.2	NONBASIS	.28	6946	1359.427	NONE
Z26.1	NONBASIS	.05	6932	775.7868	NONE
Z26.2	NONBASIS	.11	6932	1020.298	NONE
Z27.1	NONBASIS	.003	6715	1033.94	NONE
Z27.2	NONBASIS	.02	6715	1361.293	NONE
Z28.1	NONBASIS	.02	6788	1033.94	NONE
Z28.2	NONBASIS	.09	6788	1361.293	NONE
Z29.1	NONBASIS	0	18246	2092.802	NONE
Z29.2	NONBASIS	0	18246	2317.871	NONE
Z30.1	NONBASIS	.006	21240	1454.736	NONE
Z30.2	NONBASIS	.03	21240	1799.976	NONE
Z31.1	NONBASIS	.07	9847	4409.157	NONE
Z31.2	NONBASIS	.35	9847	4491.476	NONE
Z32.1	NONBASIS	.22	17645	347.5078	NONE
Z32.2	NONBASIS	1.13	17645	431.5867	NONE
Z33.1	NONBASIS	0	25049	2172.307	NONE
Z33.2	NONBASIS	0	25049	2224.710	NONE

Z34.1	NONBASIS	0	3426	2202.074	NONE
Z34.2	NONBASIS	0	3426	2382.482	NONE
Z35.1	NONBASIS	1	1663	442.6449	NONE
Z35.2	NONBASIS	5.2	1663	506.5019	NONE
A1	NONBASIS	48015	0	-.6113065	NONE
A2	NONBASIS	270.8	0	-621.8535	NONE
B1	NONBASIS	1239	0	-1.937443	NONE
B2	NONBASIS	6707	0	-3.532536	NONE
D1	BASIS	2299.918	0	-12.76214	NONE
D2	BASIS	2500.838	0	-67.3366	NONE
D3	BASIS	59.3481	0	-40.44767	NONE
D4	BASIS	61.7044	0	-383.9713	NONE
H.08	NONBASIS	0	397.4	-2534.235	NONE
H.02	NONBASIS	0	397.4	-2227	NONE
H.05	NONBASIS	0	556.5	-4470	NONE
H.06	NONBASIS	0	191.2	-2397.738	NONE
H.07	NONBASIS	0	513.2	-4649.935	NONE
H.09	NONBASIS	0	226.1	-8112.5	NONE
H.10	NONBASIS	0	147.9	-990.862	NONE

COABA12 SOLUTION IS MINIMUM COST 292806.2 DATE 03-01-1985  
RIGHT HAND SIDE RANGES TIME 02:11:24

ROW ID	STATUS	DUAL VALUE	RHS VALUE	MINIMUM	MAXIMUM
PR01.0	NONBINDING	0	3.2	0	NONE
PR01.2	NONBINDING	0	12	0	NONE
PR01.3	NONBINDING	0	2.9	.0000001	NONE
PR01.4	NONBINDING	0	7.9	2.205883	NONE
PR01.5	NONBINDING	0	4.6	-.0000001	NONE
PR01.6	NONBINDING	0	.634	0	NONE
PR01.7	NONBINDING	0	9	0	NONE
PR01.8	NONBINDING	0	15.5	9.17647	NONE
PR01.9	NONBINDING	0	2.5	0	NONE
BA08.1	BINDING	213.2353	0	0	0
BA08.2	NONBINDING	0	0	0	0
BA08.3	BINDING	487.2353	0	0	0
BA08.4	BINDING	766.1765	0	-1.5	3.872
BA08.6	BINDING	555.2353	0	0	0
BA08.7	BINDING	590.2353	0	0	0
BA08.8	BINDING	698.2353	0	-6.24	4.3
ABAS08	BINDING	2534.235	0	-6.24	4.3
PR02.0	NONBINDING	0	10.1	.0000004	NONE
PR02.2	NONBINDING	0	35.8	-.0000008	NONE
PR02.3	NONBINDING	0	7.9	.0000001	NONE
PR02.4	NONBINDING	0	33.8	21.42399	NONE
PR02.5	NONBINDING	0	8.7	-.0000002	NONE
PR02.6	NONBINDING	0	2.3	0	NONE
PR02.7	NONBINDING	0	36.7	1.200001	NONE
PR02.8	NONBINDING	0	22	0	NONE
PR02.9	NONBINDING	0	15.3	.0000002	NONE
DF02.0	BINDING	1844.7	0	-1.7	1.2
DF02.1	BINDING	734	0	0	0
DF02.2	BINDING	1638	0	0	0
DF02.3	BINDING	1236	0	0	0
DF02.4	BINDING	1172	0	0	0
DF02.5	BINDING	1227	0	0	0
DF02.6	BINDING	1217	0	-21.424	12.376
DF02.7	BINDING	1172	0	0	0
DF02.8	BINDING	1648	0	0	0
DF02.9	BINDING	1390	0	0	0
CP37.0	NONBINDING	0	2.9	1.2	NONE
CP37.1	NONBINDING	0	-1.46823E-06	NONE	49.781
CP37.2	NONBINDING	0	308.4	0.1000004	NONE

CP37.3	NONBINDING	0	45.3	6.539999	NONE
CP37.4	NONBINDING	0	74.4	1.500002	NONE
CP37.5	NONBINDING	0	2	.1699999	NONE
CP37.6	NONBINDING	0	124.5	21.6396	NONE
CP37.7	NONBINDING	0	215.6	.0000061	NONE
CP37.8	NONBINDING	0	430.5	11.43999	NONE
CP37.9	NONBINDING	0	23.4	.0153996	NONE
ABAS02	BINDING	2227	-4.768372E-07	-21.424	12.376
PR03.0	NONBINDING	0	66.47	.0000012	NONE
PR03.2	NONBINDING	0	412.37	-.0000049	NONE
PR03.3	NONBINDING	0	91	45.85	NONE
PR03.4	NONBINDING	0	68.27	-.0000034	NONE
PR03.5	NONBINDING	0	100.77	.2498965	NONE
PR03.6	NONBINDING	0	19.39	-.0000006	NONE
PR03.7	NONBINDING	0	147.62	-.0000049	NONE
PR03.8	NONBINDING	0	325.73	.000011	NONE
PR03.9	NONBINDING	0	43.91	-.0000002	NONE
CP03.1	NONBINDING	0	131.4	-.0000061	NONE
CP03.2	NONBINDING	0	268	0	NONE
CP03.3	NONBINDING	0	240	45.85	NONE
CP03.4	NONBINDING	0	9.4	-.0000004	NONE
CP03.5	NONBINDING	0	30.6	.2499002	NONE
CP03.6	NONBINDING	0	536	0	NONE
CP03.7	NONBINDING	0	70.2	-.0000031	NONE
CP03.8	NONBINDING	0	1235	0	NONE
CP03.9	NONBINDING	0	4.8	.0000002	NONE
BAMA.1	BINDING	338.4	0	0	0
BAMA.2	BINDING	278.9	0	0	0
BAMA.3	BINDING	284.6	-9.536743E-08	-45.85	45.15
BAMA.4	BINDING	292.151	0	0	0
BAMA.5	BINDING	284.6	0	-.2498998	30.3501
BAMA.6	BINDING	311.1	0	0	0
BAMA.7	BINDING	281.86	0	0	45.15
BAMA.8	BINDING	285.6204	0	0	2.5431
BAMA.9	BINDING	281.66	0	-38.5	0
CP36.1	NONBINDING	0	140.9	-.0000061	NONE
CP36.2	NONBINDING	0	209	0	NONE
CP36.3	NONBINDING	0	45.3	6.539999	NONE
CP36.4	NONBINDING	0	74.4	.0000015	NONE
CP36.5	NONBINDING	0	1.9	.1699999	NONE
CP36.6	NONBINDING	0	124.49	-.0000021	NONE
CP36.7	NONBINDING	0	216	0	NONE
CP36.8	NONBINDING	0	431	0	NONE
CP36.9	NONBINDING	0	23.4	-.0000004	NONE
ABAS09	BINDING	8112.5	0	-1.54	1.806
ABAS10	BINDING	990.862	0	-.1699999	1.73
PR04.0	BINDING	-36	.04	0	1.99709
PR04.2	NONBINDING	0	5.15	4.777603	NONE
PR04.3	BINDING	-17	.33	0	2.28709
PR04.5	BINDING	-6	.03	0	1.98709
PR04.6	BINDING	-51.969	.28	0	1.85411
PR04.7	BINDING	-11	1.5	1.127602	3.45709
PR04.8	NONBINDING	0	96.7	6.753243	NONE
PR04.9	BINDING	-45.116	.02	0	1.594109
CP04.0	NONBINDING	0	10.2	-.0000002	NONE
CP04.1	NONBINDING	0	131.4	3.857084	NONE
CP04.2	NONBINDING	0	268.3	2.820501	NONE
CP04.3	NONBINDING	0	240	0	NONE
CP04.4	NONBINDING	0	9.4	-.0000004	NONE
CP04.5	NONBINDING	0	30.6	.0000004	NONE
CP04.6	NONBINDING	0	536	.28	NONE
CP04.7	NONBINDING	0	70.2	-.0000031	NONE
CP04.8	NONBINDING	0	1235	6.753246	NONE
CP04.9	NONBINDING	0	4.8	.0200002	NONE
BA06.1	BINDING	1862.338	0	-1.506959	.2867461
BA06.2	BINDING	1732.051	0	-.0000002	.0000002

BA06.3	BINDING	1778.538	0	0	0
BA06.6	BINDING	1822.038	0	-1.212064	.2156
BA06.8	BINDING	1754.545	0	-5.2	69.259
BA06.9	BINDING	1813.138	0	-1.212064	.0154
BA07.1	BINDING	2523.934	0	-1.431611	.2724088
BA07.2	BINDING	2448.491	0	0	.2788512
ABAS06	BINDING	2397.738	0	-1.212064	.2867461
ABAS07	BINDING	4649.935	-2.980232E-08	-1.431611	.2724087
ABAS05	BINDING	4470	0	-.417	NONE
CALFAV	BINDING	.6113065	2.402556E-04	-2305.239	NONE
CALCAR	BINDING	621.8535	-1.453199E-07	-6.446246	24.97056
PROFAV	BINDING	1.937443	-5.982351E-06	-474.857	138.8779
PROCAR	BINDING	3.532536	5.383045E-07	-99.00863	29.78849
GASFAV	NONBINDING	0	-4.468691E-04	NONE	48438.16
GASCAR	NONBINDING	0	6.202847E-03	NONE	263929.6
DFCLFA	NONBINDING	0	4.296875E-05	NONE	2299.918
DFCLCA	NONBINDING	0	-3.356934E-06	NONE	2500.838
DFPRFA	NONBINDING	0	1.245117E-06	NONE	59.3481
DFPRCA	NONBINDING	0	8.911133E-07	NONE	61.7044
DFCALT	NONBINDING	0	0	0	0
DFPROT	NONBINDING	0	0	0	0
CP38.0	BINDING	-599.7	1.2	0	2.9
CP38.1	NONBINDING	0	101	0	NONE
CP38.2	NONBINDING	0	144.5	0	NONE
CP38.3	NONBINDING	0	19.78	.0000007	NONE
CP38.4	NONBINDING	0	29.99	2.205882	NONE
CP38.5	NONBINDING	0	4.8	.0000002	NONE
CP38.6	NONBINDING	0	245	21.424	NONE
CP38.7	NONBINDING	0	311.6	.0000061	NONE
CP38.8	NONBINDING	0	329.9	9.176464	NONE
CP38.9	NONBINDING	0	19.41	-.0000002	NONE
CP40.1	NONBINDING	0	131.4	3.857084	NONE
CP40.2	NONBINDING	0	268.34	2.820509	NONE
CP40.3	NONBINDING	0	239.9	45.84999	NONE
CP40.4	NONBINDING	0	9.38	.0000001	NONE
CP40.5	NONBINDING	0	30.6	.2499002	NONE
CP40.6	NONBINDING	0	536.1	.2799756	NONE
CP40.7	NONBINDING	0	70.16	.0000037	NONE
CP40.8	NONBINDING	0	1234.5	6.753246	NONE
CP40.9	NONBINDING	0	4.8	.0200002	NONE

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**RELATÓRIO DE SAÍDA**  
**Modelo COABA 12 A**





COABA12A

SOLUTION IS MINIMUM  
PRIMAL PROBLEM SOLUTION

COST 726310.9

DATE 03-01-1985  
TIME 00:46:38

VARIABLE	STATUS	VALUE	LOWER	UPPER	COST	VALUE	NET
X10.1	NONBASIS	0	NONE	NONE	2355	1208.733	1146.267
X10.6	NONBASIS	0	NONE	NONE	2327	1874.089	452.9106
X12.1	NONBASIS	0	NONE	NONE	2277	1208.733	1068.267
X12.2	NONBASIS	0	NONE	NONE	2087	329.8941	1757.106
X12.3	NONBASIS	0	NONE	NONE	2205	2011.294	193.7065
X12.6	NONBASIS	0	NONE	NONE	2264	1874.089	389.9106
X12.8	NONBASIS	0	NONE	NONE	2230	2141	89
X13.1	NONBASIS	0	NONE	NONE	2383	1208.733	1174.267
X13.3	NONBASIS	0	NONE	NONE	2232	2011.294	220.7065
X13.6	NONBASIS	0	NONE	NONE	2337	1874.089	462.9106
X14.1	NONBASIS	0	NONE	NONE	2497	1208.733	1288.267
X14.4	BASIS	2.205882	NONE	NONE	2351	2351	0
X14.6	NONBASIS	0	NONE	NONE	2457	1874.089	582.9106
X15.1	NONBASIS	0	NONE	NONE	2408	1208.733	1199.267
X15.3	NONBASIS	0	NONE	NONE	2312	2011.294	300.7065
X15.6	NONBASIS	0	NONE	NONE	2379	1874.089	504.9106
X16.1	NONBASIS	0	NONE	NONE	2340	1208.733	1131.267
X16.6	NONBASIS	0	NONE	NONE	2243	1874.089	368.9106
X17.1	NONBASIS	0	NONE	NONE	2794	1208.733	1585.267
X17.3	NONBASIS	0	NONE	NONE	2773	2011.294	761.7065
X17.4	NONBASIS	0	NONE	NONE	2769	2351	418
X17.6	NONBASIS	0	NONE	NONE	2767	1874.089	892.9106
X17.7	NONBASIS	0	NONE	NONE	2627	2358.682	268.3177
X18.1	NONBASIS	0	NONE	NONE	2355	1208.733	1146.267
X18.2	NONBASIS	0	NONE	NONE	2284	329.8941	1954.106
X18.3	NONBASIS	0	NONE	NONE	2290	2011.294	278.7065
X18.6	NONBASIS	0	NONE	NONE	2320	1874.089	445.9106
X18.8	BASIS	9.17647	NONE	NONE	2141	2141	0
X19.1	NONBASIS	0	NONE	NONE	2563	1208.733	1354.267
X19.3	NONBASIS	0	NONE	NONE	2538	2011.294	526.7065
X19.6	NONBASIS	0	NONE	NONE	2548	1874.089	673.9106
Y08.1	BASIS	0	NONE	4.3	4812	4812	0
Y08.2	BASIS	0	NONE	8.1	6286	6286	0
Y08.3	BASIS	0	NONE	23.1	3601	3601	0
Y08.4	*NONBASIS	1.5	NONE	1.5	2244	-1151.823	-1092.177
Y08.6	BASIS	0	NONE	36.4	3954	3954	0
Y08.7	BASIS	0	NONE	89	3690	3690	0
Y08.8	BASIS	6.24	NONE	30.8	3645	3645	0
M08.1	NONBASIS	0	NONE	NONE	8304	6793.529	1510.471
M08.2	NONBASIS	0	NONE	NONE	9365	6793.529	2571.471
Z08.1	NONBASIS	1.25	1.25	5	551.9	-1614.374	2166.274
Z08.2	NONBASIS	6.49	6.49	26	551.9	-1385.74	1937.64
X20.0	NONBASIS	0	NONE	NONE	3726	2670	1056
X20.1	NONBASIS	0	NONE	NONE	3838	1688	2150
X20.6	NONBASIS	0	NONE	NONE	3811	2899	912
X22.1	NONBASIS	0	NONE	NONE	4065	1688	2377
X22.2	BASIS	0	NONE	NONE	3875	3875	0
X22.3	NONBASIS	0	NONE	NONE	3993	2919	1074
X22.6	NONBASIS	0	NONE	NONE	4052	2899	1153
X22.8	NONBASIS	0	NONE	NONE	4018	3898	120
X22.9	NONBASIS	0	NONE	NONE	4029	3286	743
X23.1	NONBASIS	0	NONE	NONE	3557	1688	1869
X23.3	NONBASIS	0	NONE	NONE	3406	2919	487
X23.5	NONBASIS	0	NONE	NONE	3487	2898	589
X23.6	NONBASIS	0	NONE	NONE	3511	2899	612
X23.9	NONBASIS	0	NONE	NONE	3497	3286	211
X24.1	NONBASIS	0	NONE	NONE	3838	1688	2150
X24.4	NONBASIS	0	NONE	NONE	3726	2915	911
X24.6	NONBASIS	0	NONE	NONE	3811	2899	912
X25.1	NONBASIS	0	NONE	NONE	3582	1688	1894
X25.3	NONBASIS	0	NONE	NONE	3487	2810	510

X25.5	NONBASIS	0	NONE	NONE	3406	2898	508
X25.6	NONBASIS	0	NONE	NONE	3553	2899	654
X25.9	NONBASIS	0	NONE	NONE	3528	3286	242
X26.1	NONBASIS	0	NONE	NONE	3823	1688	2135
X26.6	NONBASIS	0	NONE	NONE	3726	2899	827
X26.9	NONBASIS	0	NONE	NONE	3827	3286	541
X27.0	NONBASIS	0	NONE	NONE	2937	2670	267
X27.1	NONBASIS	0	NONE	NONE	2940	1688	1252
X27.3	BASIS	0	NONE	NONE	2919	2919	0
X27.4	BASIS	0	NONE	NONE	2915	2915	0
X27.5	BASIS	0	NONE	NONE	2898	2898	0
X27.6	NONBASIS	0	NONE	NONE	2913	2899	14
X27.7	BASIS	22.59443	NONE	NONE	2773	2773	0
X28.1	NONBASIS	0	NONE	NONE	4112	1688	2424
X28.2	NONBASIS	0	NONE	NONE	4041	3875	166
X28.3	NONBASIS	0	NONE	NONE	4048	2919	1129
X28.6	NONBASIS	0	NONE	NONE	4077	2899	1178
X28.8	BASIS	0	NONE	NONE	3898	3898	0
X28.9	NONBASIS	0	NONE	NONE	4080	3286	794
X29.1	NONBASIS	0	NONE	NONE	3402	1688	1714
X29.3	NONBASIS	0	NONE	NONE	3377	2919	458
X29.6	NONBASIS	0	NONE	NONE	3388	2899	489
X29.9	BASIS	0	NONE	NONE	3286	3286	0
Y02.0	BASIS	0	NONE	1.2	2976	2976	0
Y02.1	BASIS	0	NONE	101	3958	3958	0
Y02.2	NONBASIS	0	NONE	144.6	2722	1771	951
Y02.3	NONBASIS	0	NONE	19.8	2750	2727	23
Y02.4	NONBASIS	0	NONE	30	4321	2731	1590
Y02.5	NONBASIS	0	NONE	4.8	3050	2748	302
Y02.6	BASIS	0	NONE	245	2747	2747	0
Y02.7	BASIS	22.59443	NONE	311.6	2873	2873	0
Y02.8	NONBASIS	0	NONE	330	2726	1748	978
Y02.9	NONBASIS	0	NONE	19.4	2929	2360	569
Z02.1	BASIS	3.49443	1.23	3.68	705.4	705.4	0
Z02.2	*NONBASIS	19.1	6.35	19.1	705.4	-43.21918	-662.1808
X30.1	NONBASIS	0	NONE	NONE	1427	1338	89
X30.6	NONBASIS	0	NONE	NONE	1399	1308	91
X32.1	NONBASIS	0	NONE	NONE	1480	1338	142
X32.2	NONBASIS	0	NONE	NONE	1290	1183.64	106.36
X32.3	NONBASIS	0	NONE	NONE	1408	1203	205
X32.6	NONBASIS	0	NONE	NONE	1467	1308	159
X32.8	NONBASIS	0	NONE	NONE	1433	1201.639	231.3605
X32.9	NONBASIS	0	NONE	NONE	1444	1190.96	253.04
X33.1	NONBASIS	0	NONE	NONE	1354	1338	16
X33.3	BASIS	45.85	NONE	NONE	1203	1203	0
X33.5	NONBASIS	0	NONE	NONE	1283	1203	80
X33.6	BASIS	0	NONE	NONE	1308	1308	0
X33.9	NONBASIS	0	NONE	NONE	1293	1190.96	102.04
X34.1	NONBASIS	0	NONE	NONE	1385	1338	47
X34.4	NONBASIS	0	NONE	NONE	1238	1224.769	13.23129
X34.6	NONBASIS	0	NONE	NONE	1344	1308	36
X35.1	NONBASIS	0	NONE	NONE	1379	1338	41
X35.3	NONBASIS	0	NONE	NONE	1283	1203	80
X35.5	BASIS	.2498998	NONE	NONE	1203	1203	0
X35.6	NONBASIS	0	NONE	NONE	1350	1308	42
X35.9	NONBASIS	0	NONE	NONE	1325	1190.96	134.04
X36.1	NONBASIS	0	NONE	NONE	1412	1338	74
X36.6	NONBASIS	0	NONE	NONE	1315	1308	7
X36.9	NONBASIS	0	NONE	NONE	1416	1190.96	225.04
X37.1	NONBASIS	0	NONE	NONE	1465	1338	127
X37.3	NONBASIS	0	NONE	NONE	1444	1203	241
X37.4	NONBASIS	0	NONE	NONE	1440	1224.769	215.2313
X37.5	NONBASIS	0	NONE	NONE	1424	1203	221
X37.6	NONBASIS	0	NONE	NONE	1438	1308	130
X37.7	BASIS	0	NONE	NONE	1298	1298	0
X38.1	NONBASIS	0	NONE	NONE	1470	1338	140

X38.2	NONBASIS	0	NONE	NONE	1407	1183.64	223.36
X38.3	NONBASIS	0	NONE	NONE	1413	1203	210
X38.6	NONBASIS	0	NONE	NONE	1443	1308	135
X38.8	NONBASIS	0	NONE	NONE	1264	1201.639	62.36055
X38.9	NONBASIS	0	NONE	NONE	1446	1190.96	255.04
X39.1	BASIS	0	NONE	NONE	1338	1338	0
X39.3	NONBASIS	0	NONE	NONE	1313	1203	110
X39.6	NONBASIS	0	NONE	NONE	1324	1308	16
X39.9	NONBASIS	0	NONE	NONE	1223	1190.96	32.04
Y09.1	NONBASIS	0	NONE	3.5	3923	-49	3972
Y09.2	BASIS	0	NONE	22.5	3810	3810	0
Y09.3	BASIS	1.54	NONE	5	3326	3326	0
Y09.4	NONBASIS	0	NONE	2	3376	2781.782	594.2177
Y09.5	NONBASIS	0	NONE	2	3392	3326	66
Y09.6	NONBASIS	0	NONE	4.5	4175	701	3474
Y09.7	NONBASIS	0	NONE	200	3437	951	2486
Y09.8	NONBASIS	0	NONE	104.9	3396	3360.014	35.98639
Y09.9	BASIS	0	NONE	17.5	3627	3627	0
Y10.1	NONBASIS	0	NONE	3.5	2095	1485.55	609.45
Y10.2	NONBASIS	0	NONE	22.5	1934	1712.459	221.5408
Y10.3	*NONBASIS	5	NONE	5	1618	-1552	-66
Y10.4	BASIS	0	NONE	2	1652	1652	0
Y10.5	BASIS	.1699999	NONE	2	1684	1684	0
Y10.6	NONBASIS	0	NONE	4.5	2323	1529.65	793.35
Y10.7	NONBASIS	0	NONE	200	1713	1544.35	168.65
Y10.8	BASIS	0	NONE	104.9	1686	1686	0
Y10.9	NONBASIS	0	NONE	17.5	1786	1701.699	84.3012
Y39.1	BASIS	1.757895	NONE	155.4	543.2	543.2	0
Y39.2	BASIS	0	NONE	2.2	733.4	733.4	0
Z09.1	NONBASIS	.25	.25	.75	893.2	-28098.16	28991.36
Z09.2	NONBASIS	1.29	1.29	3.88	893.2	-27798.17	28691.37
Z10.1	*NONBASIS	.84	.28	.84	575.6	402.9927	-978.5927
Z10.2	*NONBASIS	4.33	1.44	4.33	575.6	655.5383	-1231.138
X40.1	BASIS	.04	NONE	NONE	3810	3810	0
X40.6	NONBASIS	0	NONE	NONE	3782	3735.464	46.536
X42.1	BASIS	1.929359	NONE	NONE	3888	3888	0
X42.2	BASIS	2.820513	NONE	NONE	3698	3698	0
X42.3	NONBASIS	0	NONE	NONE	3816	3723.126	92.8735
X42.6	NONBASIS	0	NONE	NONE	3874	3813.464	60.536
X42.8	NONBASIS	0	NONE	NONE	3841	3698	143
X42.9	NONBASIS	0	NONE	NONE	3852	3799.219	52.781
X43.1	BASIS	.33	NONE	NONE	3848	3848	0
X43.3	NONBASIS	0	NONE	NONE	3698	3683.126	14.87351
X43.6	NONBASIS	0	NONE	NONE	3802	3773.464	28.536
X43.9	NONBASIS	0	NONE	NONE	3788	3759.219	28.781
X45.1	BASIS	.03	NONE	NONE	3873	3873	0
X45.3	NONBASIS	0	NONE	NONE	3778	3708.126	69.8735
X45.6	NONBASIS	0	NONE	NONE	3845	3798.464	46.536
X45.9	NONBASIS	0	NONE	NONE	3820	3784.219	35.781
X46.1	NONBASIS	0	NONE	NONE	3795	3772.536	22.464
X46.6	BASIS	.28	NONE	NONE	3698	3698	0
X46.9	NONBASIS	0	NONE	NONE	3798	3683.755	114.245
X47.1	BASIS	1.5	NONE	NONE	3865	3865	0
X47.3	NONBASIS	0	NONE	NONE	3844	3700.126	143.8735
X47.6	NONBASIS	0	NONE	NONE	3838	3790.464	47.536
X48.1	NONBASIS	0	NONE	NONE	3912	3888	24
X48.2	NONBASIS	0	NONE	NONE	3841	3698	143
X48.3	NONBASIS	0	NONE	NONE	3847	3723.126	123.8735
X48.6	NONBASIS	0	NONE	NONE	3877	3813.464	63.536
X48.8	BASIS	6.753246	NONE	NONE	3698	3698	0
X48.9	NONBASIS	0	NONE	NONE	3880	3799.219	80.781
X49.1	NONBASIS	0	NONE	NONE	3813	3786.781	26.219
X49.3	NONBASIS	0	NONE	NONE	3788	3621.907	166.0925
X49.6	NONBASIS	0	NONE	NONE	3798	3712.245	85.755
X49.9	BASIS	.02	NONE	NONE	3698	3698	0
Y06.1	BASIS	1.190712	NONE	155.4	543.2	543.2	0

Y06.3	BASIS	0	NONE	1.37	693.7	693.7	0
Y06.6	BASIS	.2156	NONE	123.7	640	640	0
Y06.8	*NONBASIS	5.2	NONE	5.2	757.2	-724.4468	-32.75325
Y06.9	BASIS	.0154	NONE	9.1	658.5	658.5	0
Y07.1	BASIS	1.67	NONE	30.3	2919	2919	0
Y07.2	NONBASIS	0	NONE	2.4	3109	3103.369	5.631289
M4.1	NONBASIS	0	NONE	NONE	5547	3888	1659
M4.2	NONBASIS	0	NONE	NONE	5832	3698	2134
M4.3	NONBASIS	0	NONE	NONE	5772	3723.126	2048.874
M4.6	NONBASIS	0	NONE	NONE	5692	3813.464	1878.536
M4.8	NONBASIS	0	NONE	NONE	5868	3698	2170
M4.9	NONBASIS	0	NONE	NONE	5720	3799.219	1920.781
Z06.1	NONBASIS	1.28	1.28	3.83	348	-26.70514	374.7051
Z06.2	BASIS	7.541711	6.61	19.9	348	348	0
Z07.1	NONBASIS	.27	.27	1.6	824.8	-3154.406	3979.206
Z07.2	NONBASIS	1.4	1.4	8.34	824.8	-2709.841	3534.641
Y05.0	NONBASIS	0	NONE	.58	12702	8040	4662
Y05.2	NONBASIS	0	NONE	4.74	13531	8040	5491
Y05.4	NONBASIS	0	NONE	2.73	9673	8040	1633
Y05.6	NONBASIS	0	NONE	1.21	14153	8040	6113
Y05.7	BASIS	.417	NONE	2.08	8040	8040	0
Y05.9	NONBASIS	0	NONE	.58	12690	8040	4650
Z05.1	NONBASIS	.067	.067	.27	1916	-4913.069	6829.069
Z05.2	NONBASIS	.35	.35	1.39	1916	-4521.271	6437.271
Z11.1	*NONBASIS	2.97	1.98	2.97	3920	-3005.184	-914.8156
Z11.2	*NONBASIS	15.41	10.27	15.41	3920	-3005.184	-914.8156
Z12.1	NONBASIS	.076	.076	.15	36175	7122.78	29052.22
Z12.2	NONBASIS	.39	.39	.79	36175	7637.952	28537.05
Z13.1	BASIS	.5282751	.29	.87	10933	10933	0
Z13.2	BASIS	4.44784	1.51	4.51	10933	10933	0
Z15.1	NONBASIS	.21	.21	1.27	6960	4202.447	2757.553
Z15.2	NONBASIS	1.08	1.08	6.56	6960	4440.607	2519.393
Z16.1	NONBASIS	.37	.37	2.19	4560	1142.942	3417.058
Z16.2	NONBASIS	1.94	1.94	11.4	4560	1206.174	3353.826
Z17.1	*NONBASIS	.67	.22	.67	2550	-793.8988	-1756.101
Z17.2	*NONBASIS	3.48	1.16	3.48	2550	-747.0681	-1802.932
Z18.1	NONBASIS	.28	.28	.55	6850	550.9583	6299.042
Z18.2	NONBASIS	1.43	1.43	2.87	6850	607.8397	6242.16
Z19.1	NONBASIS	.13	.13	.53	4600	615.8376	3984.162
Z19.2	NONBASIS	.69	.69	2.76	4600	640.9643	3959.036
Z20.1	NONBASIS	.36	.36	1.46	1530	1290.785	239.2147
Z20.2	NONBASIS	1.89	1.89	7.57	1530	1332.066	197.9336
Z21.1	NONBASIS	.29	.29	1.14	12230	348.1451	11881.85
Z21.2	NONBASIS	1.48	1.48	5.92	12230	379.8998	11850.1
Z22.1	NONBASIS	.078	.078	.156	20714	652.5856	20061.41
Z22.2	NONBASIS	.4	.4	.812	20714	706.5685	20007.43
Z23.1	NONBASIS	.044	.044	.261	22800	4326.061	18473.94
Z23.2	NONBASIS	.22	.22	1.35	22800	4943.593	17856.41
Z24.1	NONBASIS	.007	.007	.044	16800	3557.384	13242.62
Z24.2	NONBASIS	.038	.038	.23	16800	4224.232	12575.77
Z25.1	NONBASIS	.053	.053	.32	15000	3368.402	11631.6
Z25.2	NONBASIS	.28	.28	1.66	15000	3993.969	11006.03
Z26.1	NONBASIS	.05	.05	.32	16250	2528.627	13721.37
Z26.2	NONBASIS	.11	.11	1.65	16250	2998.597	13251.4
Z27.1	NONBASIS	.003	.003	.02	25000	3368.402	21631.6
Z27.2	NONBASIS	.02	.02	.1	25000	3997.613	21002.39
Z28.1	NONBASIS	.02	.02	.1	22000	3368.402	18631.6
Z28.2	NONBASIS	.09	.09	.54	22000	3997.613	18002.39
Z29.1	NONBASIS	0	NONE	.193	46350	4965.718	41384.28
Z29.2	NONBASIS	0	NONE	1.003	46350	5349.95	41000.05
Z30.1	NONBASIS	.006	.006	.42	34815	4257.951	30557.05
Z30.2	NONBASIS	.03	.03	2.17	34815	4908.922	29906.08
Z31.1	NONBASIS	.07	.07	.27	13500	8788.476	4711.524
Z31.2	NONBASIS	.35	.35	1.38	13500	8801.178	4698.822
Z32.1	NONBASIS	.22	.22	.77	87100	1001.007	21075.00

Z32.2	NONBASIS	1.13	1.13	1.36	87400	1182.78	86217.22
Z33.1	NONBASIS	0	NONE	.025	52000	4850.283	47149.72
Z33.2	NONBASIS	0	NONE	.13	52000	5104.32	46895.68
Z34.1	NONBASIS	0	NONE	.025	11120	4976.124	6143.876
Z34.2	NONBASIS	0	NONE	.13	11120	5265.56	5854.44
Z35.1	NONBASIS	1	1	2	2580	1119.697	1460.303
Z35.2	NONBASIS	5.2	5.2	10.41	2580	1234.014	1345.986
A1	NONBASIS	48015	48015	NONE	0	-1.214778	1.214778
A2	NONBASIS	270.8	270.8	NONE	0	-1214.778	1214.778
B1	NONBASIS	1239	1239	NONE	0	-10.51895	10.51895
B2	NONBASIS	6707	6707	NONE	0	-13.69442	13.69442
D1	BASIS	2299.918	NONE	NONE	0	0	0
D2	BASIS	2500.838	NONE	NONE	0	0	0
D3	BASIS	59.3481	NONE	NONE	0	0	0
D4	BASIS	61.7044	NONE	NONE	0	0	0
H.08	NONBASIS	0	NONE	NONE	128	-6793.529	6921.529
H.02	NONBASIS	0	NONE	NONE	131.6	-5646	5777.6
H.05	NONBASIS	0	NONE	NONE	159.1	-8040	8199.1
H.06	NONBASIS	0	NONE	NONE	34.93	-5592.551	5627.48
H.07	NONBASIS	0	NONE	NONE	90.78	-8805.897	8896.676
H.09	NONBASIS	0	NONE	NONE	101.3	-33401	33502.3
H.10	NONBASIS	0	NONE	NONE	64.92	-3452.41	3517.33
S.1	BASIS	3.2	NONE	NONE	0	0	0
S.2	BASIS	12	NONE	NONE	0	0	0
S.3	BASIS	2.9	NONE	NONE	0	0	0
S.4	BASIS	5.694118	NONE	NONE	0	0	0
S.5	BASIS	4.6	NONE	NONE	0	0	0
S.6	BASIS	.634	NONE	NONE	0	0	0
S.7	BASIS	9	NONE	NONE	0	0	0
S.8	BASIS	6.32353	NONE	NONE	0	0	0
S.9	BASIS	2.5	NONE	NONE	0	0	0
S.18	BASIS	10.1	NONE	NONE	0	0	0
S.19	BASIS	35.8	NONE	NONE	0	0	0
S.20	BASIS	7.9	NONE	NONE	0	0	0
S.21	BASIS	33.8	NONE	NONE	0	0	0
S.22	BASIS	8.7	NONE	NONE	0	0	0
S.23	BASIS	2.3	NONE	NONE	0	0	0
S.24	BASIS	14.10557	NONE	NONE	0	0	0
S.25	BASIS	22	NONE	NONE	0	0	0
S.26	BASIS	15.3	NONE	NONE	0	0	0
S.37	BASIS	2.9	NONE	NONE	0	0	0
S.38	BASIS	50.40182	NONE	NONE	0	0	0
S.39	BASIS	206.4	NONE	NONE	0	0	0
S.40	BASIS	38.76	NONE	NONE	0	0	0
S.41	BASIS	72.9	NONE	NONE	0	0	0
S.42	BASIS	1.83	NONE	NONE	0	0	0
S.43	BASIS	124.2844	NONE	NONE	0	0	0
S.44	BASIS	193.0056	NONE	NONE	0	0	0
S.45	BASIS	419.06	NONE	NONE	0	0	0
S.46	BASIS	23.3846	NONE	NONE	0	0	0
S.48	BASIS	66.47	NONE	NONE	0	0	0
S.49	BASIS	412.37	NONE	NONE	0	0	0
S.50	BASIS	45.15	NONE	NONE	0	0	0
S.51	BASIS	68.27	NONE	NONE	0	0	0
S.52	BASIS	100.5201	NONE	NONE	0	0	0
S.53	BASIS	19.39	NONE	NONE	0	0	0
S.54	BASIS	147.62	NONE	NONE	0	0	0
S.55	BASIS	325.73	NONE	NONE	0	0	0
S.56	BASIS	43.91	NONE	NONE	0	0	0
S.57	BASIS	131.4	NONE	NONE	0	0	0
S.58	BASIS	268	NONE	NONE	0	0	0
S.59	BASIS	194.15	NONE	NONE	0	0	0
S.60	BASIS	9.4	NONE	NONE	0	0	0
S.61	BASIS	30.3501	NONE	NONE	0	0	0
S.62	BASIS	536	NONE	NONE	0	0	0
S.63	BASIS	70.2	NONE	NONE	0	0	0

0.64	BASIS	1235	NONE	NONE	0	0	0
0.65	BASIS	4.8	NONE	NONE	0	0	0
0.75	BASIS	140.9	NONE	NONE	0	0	0
0.76	BASIS	209	NONE	NONE	0	0	0
0.77	BASIS	38.76	NONE	NONE	0	0	0
0.78	BASIS	74.4	NONE	NONE	0	0	0
0.79	BASIS	1.73	NONE	NONE	0	0	0
0.80	BASIS	124.49	NONE	NONE	0	0	0
0.81	BASIS	216	NONE	NONE	0	0	0
0.82	BASIS	431	NONE	NONE	0	0	0
0.83	BASIS	23.4	NONE	NONE	0	0	0
0.86	NONBASIS	0	NONE	NONE	0	-78	78
0.87	BASIS	.4001282	NONE	NONE	0	0	0
0.88	NONBASIS	0	NONE	NONE	0	-40	40
0.89	NONBASIS	0	NONE	NONE	0	-15	15
0.90	NONBASIS	0	NONE	NONE	0	-115.464	115.464
0.91	NONBASIS	0	NONE	NONE	0	-23	23
0.92	BASIS	69.94675	NONE	NONE	0	0	0
0.93	NONBASIS	0	NONE	NONE	0	-101.219	101.219
0.94	BASIS	10.2	NONE	NONE	0	0	0
0.95	BASIS	127.5706	NONE	NONE	0	0	0
0.96	BASIS	265.4795	NONE	NONE	0	0	0
0.97	BASIS	240	NONE	NONE	0	0	0
0.98	BASIS	9.4	NONE	NONE	0	0	0
0.99	BASIS	30.6	NONE	NONE	0	0	0
0.100	BASIS	535.72	NONE	NONE	0	0	0
0.101	BASIS	70.2	NONE	NONE	0	0	0
0.102	BASIS	1228.247	NONE	NONE	0	0	0
0.103	BASIS	4.78	NONE	NONE	0	0	0
0.119	BASIS	108077.8	NONE	NONE	0	0	0
0.120	BASIS	584636.5	NONE	NONE	0	0	0
0.127	BASIS	1.2	NONE	NONE	0	0	0
0.128	BASIS	101	NONE	NONE	0	0	0
0.129	BASIS	144.5	NONE	NONE	0	0	0
0.130	BASIS	19.78	NONE	NONE	0	0	0
0.131	BASIS	27.78412	NONE	NONE	0	0	0
0.132	BASIS	4.8	NONE	NONE	0	0	0
0.133	BASIS	245	NONE	NONE	0	0	0
0.134	BASIS	289.0056	NONE	NONE	0	0	0
0.135	BASIS	320.7235	NONE	NONE	0	0	0
0.136	BASIS	19.41	NONE	NONE	0	0	0
0.137	BASIS	127.5706	NONE	NONE	0	0	0
0.138	BASIS	265.5195	NONE	NONE	0	0	0
0.139	BASIS	194.05	NONE	NONE	0	0	0
0.140	BASIS	9.38	NONE	NONE	0	0	0
0.141	BASIS	30.3501	NONE	NONE	0	0	0
0.142	BASIS	535.82	NONE	NONE	0	0	0
0.143	BASIS	70.16	NONE	NONE	0	0	0
0.144	BASIS	1227.747	NONE	NONE	0	0	0
0.145	BASIS	4.78	NONE	NONE	0	0	0

COABA12A SOLUTION IS MINIMUM COST 726310.9 DATE 03-01-1985  
DUAL PROBLEM SOLUTION TIME 00:47:24

ROW ID	STATUS	DUAL VALUE	RHS VALUE	USAGE	SLACK
PR01.0	NONBINDING	0	3.2	0	3.2
PR01.2	NONBINDING	0	12	0	12
PR01.3	NONBINDING	0	2.9	0	2.9
PR01.4	NONBINDING	0	7.9	2.205882	5.694118
PR01.5	NONBINDING	0	4.6	0	4.6
PR01.6	NONBINDING	0	.634	0	.634
PR01.7	NONBINDING	0	9	0	9
PR01.8	NONBINDING	0	15.5	0	15.5

PR01.1	NONBINDING	0	2.5	0	2.5
BA08.1	BINDING	1981.529	0	0	0
BA08.2	BINDING	507.5294	0	0	0
BA08.3	BINDING	3192.529	0	0	0
BA08.4	BINDING	3457.353	0	0	0
BA08.6	BINDING	2839.529	0	0	0
BA08.7	BINDING	3103.529	0	0	0
BA08.8	BINDING	3148.529	0	0	0
ABAS08	BINDING	6793.529	0	0	0
PR02.0	NONBINDING	0	10.1	0	10.1
PR02.2	NONBINDING	0	35.8	0	35.8
PR02.3	NONBINDING	0	7.9	0	7.9
PR02.4	NONBINDING	0	33.8	0	33.8
PR02.5	NONBINDING	0	8.7	0	8.7
PR02.6	NONBINDING	0	2.3	0	2.3
PR02.7	NONBINDING	0	36.7	22.59443	14.10557
PR02.8	NONBINDING	0	22	0	22
PR02.9	NONBINDING	0	15.3	0	15.3
DF02.0	BINDING	2670	0	0	0
DF02.1	BINDING	1688	0	0	0
DF02.2	BINDING	3875	0	0	0
DF02.3	BINDING	2919	0	0	0
DF02.4	BINDING	2915	0	0	0
DF02.5	BINDING	2898	0	0	0
DF02.6	BINDING	2899	0	0	0
DF02.7	BINDING	2773	0	0	0
DF02.8	BINDING	3898	0	0	0
DF02.9	BINDING	3286	0	0	0
CP37.0	NONBINDING	0	2.9	0	2.9
CP37.1	NONBINDING	0	0	50.40182	-50.40182
CP37.2	NONBINDING	0	208.6	2.2	206.4
CP37.3	NONBINDING	0	45.3	6.54	38.76
CP37.4	NONBINDING	0	74.4	1.5	72.9
CP37.5	NONBINDING	0	2	.1699999	1.83
CP37.6	NONBINDING	0	124.5	.2156	124.2844
CP37.7	NONBINDING	0	215.6	22.59443	193.0056
CP37.8	NONBINDING	0	430.5	11.44	419.06
CP37.9	NONBINDING	0	23.4	.0154	23.3846
ABAS02	BINDING	5646	0	0	0
PR03.0	NONBINDING	0	66.47	0	66.47
PR03.2	NONBINDING	0	412.37	0	412.37
PR03.3	NONBINDING	0	91	45.85	45.15
PR03.4	NONBINDING	0	68.27	0	68.27
PR03.5	NONBINDING	0	100.77	.2498998	100.5201
PR03.6	NONBINDING	0	19.39	0	19.39
PR03.7	NONBINDING	0	147.62	0	147.62
PR03.8	NONBINDING	0	325.73	0	325.73
PR03.9	NONBINDING	0	43.91	0	43.91
CP03.1	NONBINDING	0	131.4	0	131.4
CP03.2	NONBINDING	0	268	0	268
CP03.3	NONBINDING	0	240	45.85	194.15
CP03.4	NONBINDING	0	9.4	0	9.4
CP03.5	NONBINDING	0	30.6	.2498998	30.3501
CP03.6	NONBINDING	0	536	0	536
CP03.7	NONBINDING	0	70.2	0	70.2
CP03.8	NONBINDING	0	1235	0	1235
CP03.9	NONBINDING	0	4.8	0	4.8
BAMA.1	BINDING	1338	0	0	0
BAMA.2	BINDING	1183.64	0	0	0
BAMA.3	BINDING	1203	0	0	0
BAMA.4	BINDING	1224.769	0	0	0
BAMA.5	BINDING	1203	0	0	0
BAMA.6	BINDING	1308	0	0	0
BAMA.7	BINDING	1298	0	0	0
BAMA.8	BINDING	1201.639	0	0	0
BAMA.9	BINDING	1190.96	0	0	0

CP36.1	NONBINDING	0	137.4	0	137.4
CP36.2	NONBINDING	0	209	0	209
CP36.3	NONBINDING	0	45.3	6.54	38.76
CP36.4	NONBINDING	0	74.4	0	74.4
CP36.5	NONBINDING	0	1.9	.1699999	1.73
CP36.6	NONBINDING	0	124.49	0	124.49
CP36.7	NONBINDING	0	216	0	216
CP36.8	NONBINDING	0	431	0	431
CP36.9	NONBINDING	0	23.4	0	23.4
ABAS09	BINDING	33401	0	0	0
ABAS10	BINDING	3452.41	0	0	0
PR04.0	BINDING	-78	.04	.04	0
PR04.2	NONBINDING	0	5.15	4.749872	.4001282
PR04.3	BINDING	-40	.33	.33	0
PR04.5	BINDING	-15	.03	.03	0
PR04.6	BINDING	-115.464	.28	.28	0
PR04.7	BINDING	-23	1.5	1.5	0
PR04.8	NONBINDING	0	96.7	6.753246	89.94675
PR04.9	BINDING	-101.219	.02	.02	0
CP04.0	NONBINDING	0	10.2	0	10.2
CP04.1	NONBINDING	0	131.4	3.829359	127.5706
CP04.2	NONBINDING	0	268.3	2.820513	265.4795
CP04.3	NONBINDING	0	240	0	240
CP04.4	NONBINDING	0	9.4	0	9.4
CP04.5	NONBINDING	0	30.6	0	30.6
CP04.6	NONBINDING	0	536	.28	535.72
CP04.7	NONBINDING	0	70.2	0	70.2
CP04.8	NONBINDING	0	1235	6.753246	1228.247
CP04.9	NONBINDING	0	4.8	.02	4.78
BA06.1	BINDING	5049.351	0	0	0
BA06.2	BINDING	4741.026	0	0	0
BA06.3	BINDING	4898.851	0	0	0
BA06.6	BINDING	4952.551	0	0	0
BA06.8	BINDING	4802.597	0	0	0
BA06.9	BINDING	4934.051	0	0	0
BA07.1	BINDING	5886.896	0	0	0
BA07.2	BINDING	5702.527	0	0	0
ABAS06	BINDING	5592.551	0	0	0
ABAS07	BINDING	8805.897	0	0	0
ABAS05	BINDING	8040	0	0	0
CALFAV	BINDING	1.214778	0	0	0
CALCAR	BINDING	1214.778	0	0	0
PROFAV	BINDING	10.51895	0	0	0
PROCAR	BINDING	13.69442	0	0	0
GASFAV	NONBINDING	0	0	108077.8	-108077.8
GASCAR	NONBINDING	0	0	584636.5	-584636.5
DFCLFA	NONBINDING	0	0	0	0
DFCLCA	NONBINDING	0	0	0	0
DFPRFA	NONBINDING	0	0	0	0
DFPRCA	NONBINDING	0	0	0	0
DFCALT	NONBINDING	0	0	0	0
DFPROT	NONBINDING	0	0	0	0
CP38.0	NONBINDING	0	1.2	0	1.2
CP38.1	NONBINDING	0	101	0	101
CP38.2	NONBINDING	0	144.5	0	144.5
CP38.3	NONBINDING	0	19.78	0	19.78
CP38.4	NONBINDING	0	29.99	2.205882	27.78412
CP38.5	NONBINDING	0	4.8	0	4.8
CP38.6	NONBINDING	0	245	0	245
CP38.7	NONBINDING	0	311.6	22.59443	289.0056
CP38.8	NONBINDING	0	329.9	9.17647	320.7235
CP38.9	NONBINDING	0	19.41	0	19.41
CP40.1	NONBINDING	0	131.4	3.829359	127.5706
CP40.2	NONBINDING	0	268.34	2.820513	265.5195
CP40.3	NONBINDING	0	239.9	45.85	194.05
CP40.4	NONBINDING	0	0.00	0	0.00



CP40.6	NONBINDING	0	536.1	.28	30.3501
CP40.7	NONBINDING	0	70.16	0	535.82
CP40.8	NONBINDING	0	1234.5	6.753246	70.16
CP40.9	NONBINDING	0	4.8	.02	1227.747
					4.78

COABA12A SOLUTION IS MINIMUM COST 726310.9 DATE 03-01-1985  
 OBJECTIVE ROW RANGES TIME 00:47:50

VARIABLE	STATUS	VALUE	COST /UNIT	MINIMUM	MAXIMUM
X10.1	NONBASIS	0	2355	1208.733	NONE
X10.6	NONBASIS	0	2327	1874.089	NONE
X12.1	NONBASIS	0	2277	1208.733	NONE
X12.2	NONBASIS	0	2087	329.8941	NONE
X12.3	NONBASIS	0	2205	2011.294	NONE
X12.6	NONBASIS	0	2264	1874.089	NONE
X12.8	NONBASIS	0	2230	2141	NONE
X13.1	NONBASIS	0	2383	1208.733	NONE
X13.3	NONBASIS	0	2232	2011.294	NONE
X13.6	NONBASIS	0	2337	1874.089	NONE
X14.1	NONBASIS	0	2497	1208.733	NONE
X14.4	BASIS	2.205882	2351	1608.32	2769
X14.6	NONBASIS	0	2457	1874.089	NONE
X15.1	NONBASIS	0	2408	1208.733	NONE
X15.3	NONBASIS	0	2312	2011.294	NONE
X15.6	NONBASIS	0	2379	1874.089	NONE
X16.1	NONBASIS	0	2340	1208.733	NONE
X16.6	NONBASIS	0	2243	1874.089	NONE
X17.1	NONBASIS	0	2794	1208.733	NONE
X17.3	NONBASIS	0	2773	2011.294	NONE
X17.4	NONBASIS	0	2769	2351	NONE
X17.6	NONBASIS	0	2767	1874.089	NONE
X17.7	NONBASIS	0	2627	2358.682	NONE
X18.1	NONBASIS	0	2355	1208.733	NONE
X18.2	NONBASIS	0	2284	329.8941	NONE
X18.3	NONBASIS	0	2290	2011.294	NONE
X18.6	NONBASIS	0	2320	1874.089	NONE
X18.8	BASIS	9.17647	2141	823.4048	2230
X19.1	NONBASIS	0	2563	1208.733	NONE
X19.3	NONBASIS	0	2538	2011.294	NONE
X19.6	NONBASIS	0	2548	1874.089	NONE
Y08.1	BASIS	0	4812	3060.742	NONE
Y08.2	BASIS	0	6286	3582.76	NONE
Y08.3	BASIS	0	3601	3293.529	NONE
Y08.4	*NONBASIS	1.5	2244	1151.823	NONE
Y08.6	BASIS	0	3954	3395.045	NONE
Y08.7	BASIS	0	3690	3336.95	NONE
Y08.8	BASIS	6.24	3645	1707.36	3952.471
M08.1	NONBASIS	0	8304	6793.529	NONE
M08.2	NONBASIS	0	9365	6793.529	NONE
Z08.1	NONBASIS	1.25	551.9	-1614.374	NONE
Z08.2	NONBASIS	6.49	551.9	-1385.74	NONE
X20.0	NONBASIS	0	3726	2670	NONE
X20.1	NONBASIS	0	3838	1688	NONE
X20.6	NONBASIS	0	3811	2899	NONE
X22.1	NONBASIS	0	4065	1688	NONE
X22.2	BASIS	0	3875	2924	4041
X22.3	NONBASIS	0	3993	2919	NONE
X22.6	NONBASIS	0	4052	2899	NONE
X22.8	NONBASIS	0	4018	3898	NONE
X22.9	NONBASIS	0	4029	3286	NONE
X23.1	NONBASIS	0	3557	1688	NONE
X23.3	NONBASIS	0	3404	3010	NONE

X23.0	NONBASIS	0	3487	2898	NONE
X23.6	NONBASIS	0	3511	2899	NONE
X23.9	NONBASIS	0	3497	3286	NONE
X24.1	NONBASIS	0	3838	1688	NONE
X24.4	NONBASIS	0	3726	2915	NONE
X24.6	NONBASIS	0	3811	2899	NONE
X25.1	NONBASIS	0	3582	1688	NONE
X25.3	NONBASIS	0	3487	2919	NONE
X25.5	NONBASIS	0	3406	2898	NONE
X25.6	NONBASIS	0	3553	2899	NONE
X25.9	NONBASIS	0	3528	3286	NONE
X26.1	NONBASIS	0	3823	1688	NONE
X26.6	NONBASIS	0	3726	2899	NONE
X26.9	NONBASIS	0	3827	3286	NONE
X27.0	NONBASIS	0	2937	2670	NONE
X27.1	NONBASIS	0	2940	1688	NONE
X27.3	BASIS	0	2919	2896	3377
X27.4	BASIS	0	2915	1325	3726
X27.5	BASIS	0	2898	2596	3406
X27.6	NONBASIS	0	2913	2899	NONE
X27.7	BASIS	22.59443	2773	2110.819	2787
X28.1	NONBASIS	0	4112	1688	NONE
X28.2	NONBASIS	0	4041	3875	NONE
X28.3	NONBASIS	0	4048	2919	NONE
X28.6	NONBASIS	0	4077	2899	NONE
X28.8	BASIS	0	3898	2920	4018
X28.9	NONBASIS	0	4080	3286	NONE
X29.1	NONBASIS	0	3402	1688	NONE
X29.3	NONBASIS	0	3377	2919	NONE
X29.6	NONBASIS	0	3388	2899	NONE
X29.9	BASIS	0	3286	2717	3497
Y02.0	BASIS	0	2976	2709	NONE
Y02.1	BASIS	0	3958	2706	NONE
Y02.2	NONBASIS	0	2722	1771	NONE
Y02.3	NONBASIS	0	2750	2727	NONE
Y02.4	NONBASIS	0	4321	2731	NONE
Y02.5	NONBASIS	0	3050	2748	NONE
Y02.6	BASIS	0	2747	2733	NONE
Y02.7	BASIS	22.59443	2873	2210.819	2887
Y02.8	NONBASIS	0	2726	1748	NONE
Y02.9	NONBASIS	0	2929	2360	NONE
Z02.1	BASIS	3.49443	705.4	-1472.024	1362.722
Z02.2	*NONBASIS	19.1	705.4	43.21918	NONE
X30.1	NONBASIS	0	1427	1338	NONE
X30.6	NONBASIS	0	1399	1308	NONE
X32.1	NONBASIS	0	1480	1338	NONE
X32.2	NONBASIS	0	1290	1183.64	NONE
X32.3	NONBASIS	0	1408	1203	NONE
X32.6	NONBASIS	0	1467	1308	NONE
X32.8	NONBASIS	0	1433	1201.639	NONE
X32.9	NONBASIS	0	1444	1190.96	NONE
X33.1	NONBASIS	0	1354	1338	NONE
X33.3	BASIS	45.85	1203	1158.102	1204.439
X33.5	NONBASIS	0	1283	1203	NONE
X33.6	BASIS	0	1308	1169.04	1315
X33.9	NONBASIS	0	1293	1190.96	NONE
X34.1	NONBASIS	0	1385	1338	NONE
X34.4	NONBASIS	0	1238	1224.769	NONE
X34.6	NONBASIS	0	1344	1308	NONE
X35.1	NONBASIS	0	1379	1338	NONE
X35.3	NONBASIS	0	1283	1203	NONE
X35.5	BASIS	.2498998	1203	1201.561	1216.231
X35.6	NONBASIS	0	1350	1308	NONE
X35.9	NONBASIS	0	1325	1190.96	NONE
X36.1	NONBASIS	0	1412	1338	NONE
X36.4	NONBASIS	0	1215	1203	NONE

X36.9	NONBASIS	0	1416	1190.96	NONE
X37.1	NONBASIS	0	1465	1338	NONE
X37.3	NONBASIS	0	1444	1203	NONE
X37.4	NONBASIS	0	1440	1224.769	NONE
X37.5	NONBASIS	0	1424	1203	NONE
X37.6	NONBASIS	0	1438	1308	NONE
X37.7	BASIS	0	1298	1198.56	NONE
X38.1	NONBASIS	0	1478	1338	NONE
X38.2	NONBASIS	0	1407	1183.64	NONE
X38.3	NONBASIS	0	1413	1203	NONE
X38.6	NONBASIS	0	1443	1308	NONE
X38.8	NONBASIS	0	1264	1201.639	NONE
X38.9	NONBASIS	0	1446	1190.96	NONE
X39.1	BASIS	0	1338	1179.12	1354
X39.3	NONBASIS	0	1313	1203	NONE
X39.6	NONBASIS	0	1324	1308	NONE
X39.9	NONBASIS	0	1223	1190.96	NONE
Y09.1	NONBASIS	0	3923	-49	NONE
Y09.2	BASIS	0	3810	1151	7577.701
Y09.3	BASIS	1.54	3326	1892.306	3361.986
Y09.4	NONBASIS	0	3376	2781.782	NONE
Y09.5	NONBASIS	0	3392	3326	NONE
Y09.6	NONBASIS	0	4175	701	NONE
Y09.7	NONBASIS	0	3437	951	NONE
Y09.8	NONBASIS	0	3396	3360.014	NONE
Y09.9	BASIS	0	3627	2826	5060.694
Y10.1	NONBASIS	0	2095	1485.55	NONE
Y10.2	NONBASIS	0	1934	1712.459	NONE
Y10.3	*NONBASIS	5	1618	1552	NONE
Y10.4	BASIS	0	1652	1632.55	1686.94
Y10.5	BASIS	.1699999	1684	1681.884	1703.45
Y10.6	NONBASIS	0	2323	1529.65	NONE
Y10.7	NONBASIS	0	1713	1544.35	NONE
Y10.8	BASIS	0	1686	1594.33	1688.116
Y10.9	NONBASIS	0	1786	1701.699	NONE
Y39.1	BASIS	1.757895	543.2	-2814.709	548.5497
Y39.2	BASIS	0	733.4	727.994	NONE
Z09.1	NONBASIS	.25	893.2	-28098.16	NONE
Z09.2	NONBASIS	1.29	893.2	-27798.17	NONE
Z10.1	*NONBASIS	.84	575.6	-402.9927	NONE
Z10.2	*NONBASIS	4.33	575.6	-655.5383	NONE
X40.1	BASIS	.04	3810	NONE	3856.536
X40.6	NONBASIS	0	3782	3735.464	NONE
X42.1	BASIS	1.929359	3888	3873	3892.119
X42.2	BASIS	2.820513	3698	3693.783	3841
X42.3	NONBASIS	0	3816	3723.126	NONE
X42.6	NONBASIS	0	3874	3813.464	NONE
X42.8	NONBASIS	0	3841	3698	NONE
X42.9	NONBASIS	0	3852	3799.219	NONE
X43.1	BASIS	.33	3848	NONE	3862.874
X43.3	NONBASIS	0	3698	3683.126	NONE
X43.6	NONBASIS	0	3802	3773.464	NONE
X43.9	NONBASIS	0	3788	3759.219	NONE
X45.1	BASIS	.03	3873	NONE	3888
X45.3	NONBASIS	0	3778	3708.126	NONE
X45.6	NONBASIS	0	3845	3798.464	NONE
X45.9	NONBASIS	0	3820	3784.219	NONE
X46.1	NONBASIS	0	3795	3772.536	NONE
X46.6	BASIS	.28	3698	NONE	3720.464
X46.9	NONBASIS	0	3798	3683.755	NONE
X47.1	BASIS	1.5	3865	NONE	3888
X47.3	NONBASIS	0	3844	3700.126	NONE
X47.6	NONBASIS	0	3838	3790.464	NONE
X48.1	NONBASIS	0	3912	3888	NONE
X48.2	NONBASIS	0	3841	3698	NONE
X48.3	NONBASIS	0	3847	3720.126	NONE

X48.8	BASIS	6.753246	3698	3672.78	3841
X48.9	NONBASIS	0	3880	3799.219	NONE
X49.1	NONBASIS	0	3813	3786.781	NONE
X49.3	NONBASIS	0	3788	3621.907	NONE
X49.6	NONBASIS	0	3798	3712.245	NONE
X49.9	BASIS	.02	3698	NONE	3724.219
Y06.1	BASIS	1.190712	543.2	514.026	562.7704
Y06.2	*NONBASIS	2.2	733.4	615.275	NONE
Y06.3	BASIS	0	693.7	674.1296	NONE
Y06.6	BASIS	.2156	640	602.9402	669.174
Y06.8	*NONBASIS	5.2	757.2	724.4468	NONE
Y06.9	BASIS	.0154	658.5	621.1221	692.5507
Y07.1	BASIS	1.67	2919	-615.6408	2924.631
Y07.2	NONBASIS	0	3109	3103.369	NONE
M4.1	NONBASIS	0	5547	3888	NONE
M4.2	NONBASIS	0	5832	3698	NONE
M4.3	NONBASIS	0	5772	3723.126	NONE
M4.6	NONBASIS	0	5692	3813.464	NONE
M4.8	NONBASIS	0	5868	3698	NONE
M4.9	NONBASIS	0	5720	3799.219	NONE
Z06.1	NONBASIS	1.28	348	-26.70514	NONE
Z06.2	BASIS	7.541711	348	-1267.942	725.4751
Z07.1	NONBASIS	.27	824.8	-3154.406	NONE
Z07.2	NONBASIS	1.4	824.8	-2709.841	NONE
Y05.0	NONBASIS	0	12702	8040	NONE
Y05.2	NONBASIS	0	13531	8040	NONE
Y05.4	NONBASIS	0	9673	8040	NONE
Y05.6	NONBASIS	0	14153	8040	NONE
Y05.7	BASIS	.417	8040	1602.728	9673
Y05.9	NONBASIS	0	12690	8040	NONE
Z05.1	NONBASIS	.067	1916	-4913.069	NONE
Z05.2	NONBASIS	.35	1916	-4521.271	NONE
Z11.1	*NONBASIS	2.97	3920	3005.184	NONE
Z11.2	*NONBASIS	15.41	3920	3005.184	NONE
Z12.1	NONBASIS	.076	36175	7122.78	NONE
Z12.2	NONBASIS	.39	36175	7637.952	NONE
Z13.1	BASIS	.5282751	10933	0	13001.68
Z13.2	BASIS	4.44784	10933	8808.42	13001.68
Z15.1	NONBASIS	.21	6960	4202.447	NONE
Z15.2	NONBASIS	1.08	6960	4440.607	NONE
Z16.1	NONBASIS	.37	4560	1142.942	NONE
Z16.2	NONBASIS	1.94	4560	1206.174	NONE
Z17.1	*NONBASIS	.67	2550	793.8988	NONE
Z17.2	*NONBASIS	3.48	2550	747.0681	NONE
Z18.1	NONBASIS	.28	6850	550.9583	NONE
Z18.2	NONBASIS	1.43	6850	607.8397	NONE
Z19.1	NONBASIS	.13	4600	615.8376	NONE
Z19.2	NONBASIS	.69	4600	640.9643	NONE
Z20.1	NONBASIS	.36	1530	1290.785	NONE
Z20.2	NONBASIS	1.89	1530	1332.066	NONE
Z21.1	NONBASIS	.29	12230	348.1451	NONE
Z21.2	NONBASIS	1.48	12230	379.8998	NONE
Z22.1	NONBASIS	.078	20714	652.5856	NONE
Z22.2	NONBASIS	.4	20714	706.5685	NONE
Z23.1	NONBASIS	.044	22800	4326.061	NONE
Z23.2	NONBASIS	.22	22800	4943.593	NONE
Z24.1	NONBASIS	.007	16800	3557.384	NONE
Z24.2	NONBASIS	.038	16800	4224.232	NONE
Z25.1	NONBASIS	.053	15000	3368.402	NONE
Z25.2	NONBASIS	.28	15000	3993.969	NONE
Z26.1	NONBASIS	.05	16250	2528.627	NONE
Z26.2	NONBASIS	.11	16250	2998.597	NONE
Z27.1	NONBASIS	.003	25000	3368.402	NONE
Z27.2	NONBASIS	.02	25000	3997.613	NONE
Z28.1	NONBASIS	.02	22000	3210.402	NONE

Z28.2	NONBASIS	.09	22000	3997.613	NONE
Z29.1	NONBASIS	0	46350	4965.718	NONE
Z29.2	NONBASIS	0	46350	5349.95	NONE
Z30.1	NONBASIS	.006	34815	4257.951	NONE
Z30.2	NONBASIS	.03	34815	4908.922	NONE
Z31.1	NONBASIS	.07	13500	8788.476	NONE
Z31.2	NONBASIS	.35	13500	8801.178	NONE
Z32.1	NONBASIS	.22	87400	1024.007	NONE
Z32.2	NONBASIS	1.13	87400	1182.78	NONE
Z33.1	NONBASIS	0	52000	4850.283	NONE
Z33.2	NONBASIS	0	52000	5104.32	NONE
Z34.1	NONBASIS	0	11120	4976.124	NONE
Z34.2	NONBASIS	0	11120	5265.56	NONE
Z35.1	NONBASIS	1	2580	1119.697	NONE
Z35.2	NONBASIS	5.2	2580	1234.014	NONE
A1	NONBASIS	48015	0	-1.214778	NONE
A2	NONBASIS	270.8	0	-1214.778	NONE
B1	NONBASIS	1239	0	-10.51895	NONE
B2	NONBASIS	6707	0	-13.69442	NONE
D1	BASIS	2299.918	0	-25.3607	NONE
D2	BASIS	2500.838	0	-131.5406	NONE
D3	BASIS	59.3481	0	-219.6024	NONE
D4	BASIS	61.7044	0	-1488.524	NONE
H.08	NONBASIS	0	128	-6793.529	NONE
H.02	NONBASIS	0	131.6	-5646	NONE
H.05	NONBASIS	0	159.1	-8040	NONE
H.06	NONBASIS	0	34.93	-5592.551	NONE
H.07	NONBASIS	0	90.78	-8805.897	NONE
H.09	NONBASIS	0	101.3	-33401	NONE
H.10	NONBASIS	0	64.92	-3452.41	NONE

COABA12A SOLUTION IS MINIMUM COST 726310.9 DATE 03-01-1985  
RIGHT HAND SIDE RANGES TIME 00:54:05

ROW ID	STATUS	DUAL VALUE	RHS VALUE	MINIMUM	MAXIMUM
PR01.0	NONBINDING	0	3.2	0	NONE
PR01.2	NONBINDING	0	12	0	NONE
PR01.3	NONBINDING	0	2.9	.0000001	NONE
PR01.4	NONBINDING	0	7.9	2.205883	NONE
PR01.5	NONBINDING	0	4.6	-.0000001	NONE
PR01.6	NONBINDING	0	.634	0	NONE
PR01.7	NONBINDING	0	9	0	NONE
PR01.8	NONBINDING	0	15.5	9.17647	NONE
PR01.9	NONBINDING	0	2.5	0	NONE
BA08.1	BINDING	1981.529	0	0	0
BA08.2	BINDING	507.5294	0	0	0
BA08.3	BINDING	3192.529	0	0	0
BA08.4	BINDING	3457.353	0	-1.5	3.872
BA08.6	BINDING	2839.529	0	0	0
BA08.7	BINDING	3103.529	0	0	0
BA08.8	BINDING	3148.529	0	-6.24	4.3
ABAS08	BINDING	6793.529	0	-6.24	4.3
PR02.0	NONBINDING	0	10.1	.0000004	NONE
PR02.2	NONBINDING	0	35.8	-.0000008	NONE
PR02.3	NONBINDING	0	7.9	.0000001	NONE
PR02.4	NONBINDING	0	33.8	-.0000008	NONE
PR02.5	NONBINDING	0	8.7	-.0000002	NONE
PR02.6	NONBINDING	0	2.3	0	NONE
PR02.7	NONBINDING	0	36.7	22.59443	NONE
PR02.8	NONBINDING	0	22	0	NONE
PR02.9	NONBINDING	0	15.3	.0000002	NONE
DF02.0	BINDING	2670	0	0	0
DF02.1	BINDING	1688	0	0	0

DF02.3	BINDING	2919	0	0	0
DF02.4	BINDING	2915	0	0	0
DF02.5	BINDING	2898	0	0	0
DF02.6	BINDING	2899	0	0	0
DF02.7	BINDING	2773	0	-22.59443	14.10557
DF02.8	BINDING	3898	0	0	0
DF02.9	BINDING	3286	0	0	0
CP37.0	NONBINDING	0	2.9	.0000001	NONE
CP37.1	NONBINDING	0	1.86963E-06	NONE	50.40183
CP37.2	NONBINDING	0	208.6	2.199994	NONE
CP37.3	NONBINDING	0	45.3	6.539999	NONE
CP37.4	NONBINDING	0	74.4	1.500002	NONE
CP37.5	NONBINDING	0	2	.1699999	NONE
CP37.6	NONBINDING	0	124.5	.2156	NONE
CP37.7	NONBINDING	0	215.6	22.59444	NONE
CP37.8	NONBINDING	0	430.5	11.43999	NONE
CP37.9	NONBINDING	0	23.4	.0153996	NONE
ABAS02	BINDING	5646	-4.768372E-07	-22.59443	14.10557
PR03.0	NONBINDING	0	66.47	.0000012	NONE
PR03.2	NONBINDING	0	412.37	-.0000049	NONE
PR03.3	NONBINDING	0	91	45.85	NONE
PR03.4	NONBINDING	0	68.27	-.0000034	NONE
PR03.5	NONBINDING	0	100.77	.2498965	NONE
PR03.6	NONBINDING	0	19.39	-.0000006	NONE
PR03.7	NONBINDING	0	147.62	-.0000049	NONE
PR03.8	NONBINDING	0	325.73	.000011	NONE
PR03.9	NONBINDING	0	43.91	-.0000002	NONE
CP03.1	NONBINDING	0	131.4	-.0000061	NONE
CP03.2	NONBINDING	0	268	0	NONE
CP03.3	NONBINDING	0	240	45.85	NONE
CP03.4	NONBINDING	0	9.4	-.0000004	NONE
CP03.5	NONBINDING	0	30.6	.2499002	NONE
CP03.6	NONBINDING	0	536	0	NONE
CP03.7	NONBINDING	0	70.2	-.0000031	NONE
CP03.8	NONBINDING	0	1235	0	NONE
CP03.9	NONBINDING	0	4.8	.0000002	NONE
BAMA.1	BINDING	1338	0	0	0
BAMA.2	BINDING	1183.64	0	0	0
BAMA.3	BINDING	1203	-9.536743E-08	-45.85	45.15
BAMA.4	BINDING	1224.769	0	0	0
BAMA.5	BINDING	1203	0	-.2498998	30.3501
BAMA.6	BINDING	1308	0	0	0
BAMA.7	BINDING	1298	0	0	0
BAMA.8	BINDING	1201.639	0	0	0
BAMA.9	BINDING	1190.96	0	0	0
CP36.1	NONBINDING	0	140.9	-.0000061	NONE
CP36.2	NONBINDING	0	209	0	NONE
CP36.3	NONBINDING	0	45.3	6.539999	NONE
CP36.4	NONBINDING	0	74.4	.0000015	NONE
CP36.5	NONBINDING	0	1.9	.1699999	NONE
CP36.6	NONBINDING	0	124.49	-.0000021	NONE
CP36.7	NONBINDING	0	216	0	NONE
CP36.8	NONBINDING	0	431	0	NONE
CP36.9	NONBINDING	0	23.4	-.0000004	NONE
ABAS09	BINDING	33401	0	-1.54	1.806
ABAS10	BINDING	3452.41	0	-.1699999	1.73
PR04.0	BINDING	-78	.04	0	1.969359
PR04.2	NONBINDING	0	5.15	4.749872	NONE
PR04.3	BINDING	-40	.33	0	2.259359
PR04.5	BINDING	-15	.03	0	1.959359
PR04.6	BINDING	-115.464	.28	0	1.826379
PR04.7	BINDING	-23	1.5	1.099872	3.429359
PR04.8	NONBINDING	0	96.7	6.753243	NONE
PR04.9	BINDING	-101.219	.02	0	1.566379
CP04.0	NONBINDING	0	0	0	NONE

CP04.1	NONBINDING	0	131.4	3.829353	NONE
CP04.2	NONBINDING	0	268.3	2.820501	NONE
CP04.3	NONBINDING	0	240	0	NONE
CP04.4	NONBINDING	0	9.4	-.0000004	NONE
CP04.5	NONBINDING	0	30.6	.0000004	NONE
CP04.6	NONBINDING	0	536	.28	NONE
CP04.7	NONBINDING	0	70.2	-.0000031	NONE
CP04.8	NONBINDING	0	1235	6.753246	NONE
CP04.9	NONBINDING	0	4.8	.0200002	NONE
BA06.1	BINDING	5049.351	0	-1.485606	.3080987
3A06.2	BINDING	4741.026	0	-2.2	.3121
BA06.3	BINDING	4898.851	0	0	0
3A06.6	BINDING	4952.551	0	-1.190712	.2156
BA06.8	BINDING	4802.597	0	-5.2	69.259
3A06.9	BINDING	4934.051	0	-1.190712	.0154
BA07.1	BINDING	5086.896	0	-1.411326	.2926938
3A07.2	BINDING	5702.527	0	0	.299616
ABAS06	BINDING	5592.551	0	-1.190712	.3080987
ABAS07	BINDING	8805.897	-2.980232E-08	-1.411326	.2926938
ABAS05	BINDING	8040	0	-.417	NONE
CALFAV	BINDING	1.214778	-3.644633E-04	-2144.476	NONE
CALCAR	BINDING	1214.778	1.562797E-07	-26.44056	NONE
PROFAV	BINDING	10.51895	-8.563511E-07	-468.737	129.1928
PROCAR	BINDING	13.69442	-7.014721E-07	-109.9419	36.35565
GASFAV	NONBINDING	0	-2.773187E-03	NONE	108077.8
GASCAR	NONBINDING	0	2.908158E-02	NONE	584636.6
DFCLFA	NONBINDING	0	4.296875E-05	NONE	2299.918
DFCLCA	NONBINDING	0	-3.356934E-06	NONE	2500.838
DFPRFA	NONBINDING	0	1.245117E-06	NONE	59.3481
DFPRCA	NONBINDING	0	8.911133E-07	NONE	61.7044
DFCALT	NONBINDING	0	0	0	0
DFPROT	NONBINDING	0	0	0	0
CP38.0	NONBINDING	0	1.2	0	NONE
CP38.1	NONBINDING	0	101	0	NONE
CP38.2	NONBINDING	0	144.5	0	NONE
CP38.3	NONBINDING	0	19.78	.0000007	NONE
CP38.4	NONBINDING	0	29.99	2.205882	NONE
CP38.5	NONBINDING	0	4.8	.0000002	NONE
CP38.6	NONBINDING	0	245	0	NONE
CP38.7	NONBINDING	0	311.6	22.59444	NONE
CP38.8	NONBINDING	0	329.9	9.176464	NONE
CP38.9	NONBINDING	0	19.41	-.0000002	NONE
CP40.1	NONBINDING	0	131.4	3.829353	NONE
CP40.2	NONBINDING	0	268.34	2.820509	NONE
CP40.3	NONBINDING	0	239.9	45.84999	NONE
CP40.4	NONBINDING	0	9.38	.0000001	NONE
CP40.5	NONBINDING	0	30.6	.2499002	NONE
CP40.6	NONBINDING	0	536.1	.2799756	NONE
CP40.7	NONBINDING	0	70.16	.0000037	NONE
CP40.8	NONBINDING	0	1234.5	6.753246	NONE
CP40.9	NONBINDING	0	4.8	.0200002	NONE

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