Appendix A: Mathematical description and derivations

The following appendix contains the mathematical description of the experimental market and the derivations used in the analysis in the thesis. The appendix is fairly voluminous, in large part because it also serves as a record of the derivations. The first section describes the market structure and derives the competitive and collusive equilibria. Following this are three sections, one for each price regime, in which the optimal policies and the rational-expectations stochastic equilibria are derived. In some cases one cannot find exact analytic expression but must instead rely on linear- or quadratric approximations and numerical analysis. Section 5 shows the variance and spectral density of output and prices in rational-expectations equilibrium, for each of the six regimes. The last three sections contain subsidiary notes on optimal control of linear systems with first-order terms, comparison of the simple averages X, P to the non-linear aggregates \tilde{X} , \tilde{P} , and on the expectation $E\{|n|\}$, respectively.

Notation

To facilitate reading of equations, the following conventions are observed in the following:

- Upper-case symbols (X,Y,N, etc.) denote market averages or aggregates while lower-case symbols (x, y, n, etc.) denote the corresponding individual firm variables. Moreover, for non-linear aggregations, a superscript squiggle (~) will be used. Otherwise, the aggregates are all arithmetic averages.
- Boldface symbols (**z**, **Z**, **u**, etc.) denote vectors while matrices are denoted by boldface with a double underline (**P**, **Q**, **R**, etc.).
- Parameters are denoted by greek letters while variables and derived constants are denoted by roman letters.
- At its first introduction, each symbol is printed in **boldface**.
- Likewise, **assumptions** will be highlighted whenever made.

1. Market system

Firms

The market consists of K firms, indexed by i = 1, ..., K. Time is divided into discrete periods, indexed by t = 0, 1,

At the beginning of each period, t, each firm, i, must decide how much **production to initiate**, $y_{i,t'}$ to initiate and what **price**, $p_{i,t'}$ to charge for its product this period. Production starts are constrained to be non-negative. The firm must make these decisions *ex ante*, i.e. without knowing the demand it faces this period.

Each firm maintains a goods **inventory**, $n_{i,t'}$ to accommodate fluctuations in demand. Inventories can be negative, corresponding to an order backlog. The inventory is decreased by **sales**, $x_{i,t}$, and increased by production. There may be a **lag of** δ **periods** between the initiation of production, and the time it arrives in inventory. Thus, the movement of inventories/backlogs is described by

(1.1)
$$n_{i,t+1} = n_{i,t} + y_{i,t-\delta}$$
 for all i,t.

Profits, $\mathbf{v}_{i,t'}$ each period is the difference between revenue and costs. Costs consist of production cost, proportional to sales, and inventory holding costs, proportional to the absolute value of the inventory at the beginning of the period. Production costs and revenues are assumed to be incurred at the time the goods are ordered by buyers, regardless of when the good is actually produced and/or delivered. Given **unit production costs** ω and **unit inventory/backlog holding costs** γ , firm i's profit in period t is

(1.2) $v_{i,t} = p_{i,t} x_{i,t} - \omega x_{i,t} - \gamma |n_{i,t}|$ for all i.t.

The inventory backlog cost is conceived as a combination of holding and processing costs and, in the case of a backlog, a "discount" offered to consumers to compensate for lost utility due to late delivery.

Firms have "full aggregate information" in the sense that they can observe past values of all their "own" variables, such as price, inventory, and production, and they can observe past values of the market average values of these variables.

Demand side

The demand side of the market is assumed to consist of an arbitrary but large number of buyers who purchase (or order) goods from individual firms so as to maximize their utility. It is assumed that buyer utility is a Constant-Elasticity-of-Substitution (CES) function of goods bought from individual firms, with an **elasticity of substitution** $\varepsilon > 1$, and that buyer utility is "obtained" at the time of purchase or ordering, regardless of when the good is in fact delivered. (The loss of utility from late delivery is assumed to be fully compensated by firms, in the form of the backlog cost, γ .) Thus, buyer utility is an instantaneous function of the "**aggregate good**", \tilde{X}_{t} , determined by

(1.3)
$$\widetilde{X}_{t} = \left(\frac{1}{K}\left(x_{1,t}^{(\varepsilon-1)/\varepsilon} + \dots + x_{K,t}^{(\varepsilon-1)/\varepsilon}\right)\right)^{\varepsilon/(\varepsilon-1)}$$
, for all t.

Given the **average amount of consumer spending per firm**, I on all the goods in the market during a particular period, consumers thus solve the problem of maximizing \tilde{X} over the individual goods x_i , subject to the budget constraint

(1.4)
$$p_{1,t}x_{1,t} + ... + p_{K,t}x_{K,t} = K I$$
, for all t.

The first-order conditions for this problem yield

(1.5)
$$\frac{x_{i,t}^{(\varepsilon-1)/\varepsilon}}{x_{j,t}^{(\varepsilon-1)/\varepsilon}} = \frac{p_{i,t}^{1-\varepsilon}}{p_{j,t}^{1-\varepsilon}}, \text{ for all } i, j, t.$$

Summing this expression over all j and inserting into (1.3) yields

(1.6)
$$\mathbf{x}_{i,t} = \widetilde{\mathbf{X}}_t (\mathbf{p}_{i,t} / \widetilde{\mathbf{P}}_t)^{-\varepsilon} \forall i, t,$$

where the "aggregate" price, \tilde{P}_{μ} is defined by

(1.7)
$$\tilde{P}_{t} = \left(\frac{1}{K} (p_{1,t}^{1-\varepsilon} + ... + p_{K,t}^{1-\varepsilon})\right)^{1/(1-\varepsilon)}, \forall t.$$

Multiplying (1.7) by $p_{i,t'}$ summing over *i*, and inserting in the budget constrant (1.4) further yields

(1.8)
$$I_t = \widetilde{X}_t \widetilde{P}_{t'} \forall t.$$

Thus, \tilde{P}_t can be interpreted as an aggregate price index, or the "price" of the aggregate good \tilde{X}_t .

Buyers are further assumed to embed their total purchases from this market in the context of a larger optimization problem involving other markets, savings, leasure, etc., so that the aggregate market demand (or demand for the aggregate good) in period t, $\tilde{X}_{t'}$, is a function of the the aggregate price, \tilde{P}_{t} .

Moreover, the aggregate market demand is assumed to depend on the overall level of activity in that market, i.e. there is a "multiplier" effect from production to demand. Economically, the effect can be interpreted either as a Keynesian consumption multiplier, where wage income is related to the level of activity, cr as an input-output multiplier, where firms use part of each others products as inputs to the production process.

Specifically, \tilde{X}_t is determined by

(1.9)
$$\tilde{X}_{t} = X_{t}^{*} f(\tilde{P}_{t});$$

(1.10) $X_{t}^{*} = (1-\alpha)G_{t} + \alpha \frac{1}{\delta+1} (Y_{t}+S_{t}); 0 \le \alpha \le 1;$
(1.11) $Y_{t} = (y_{1,t} + ... + y_{K,t})/K;$

(1.12)
$$S_t = (Y_{t-\delta} + ... + Y_{t-1}), \forall t.$$

 X_t^* is the "reference demand," which is multiplied by the function f(.) of the aggregate price to get actual demand. The "reference" demand consists of **autonomous demand**, G_t , and a proportion attributed to the multiplier effect. The parameter α is the indicates the **strength of the multiplier effect**, i.e. the increase in reference demand for each unit increase in the average production level, i.e., the average production over all firms and all δ production stages. In equations (1.10) to (1.12) a distinction is made for notational purposes between the **average production starts**, Y_t and the **average "supply line"**, S_t , of previously started but not yet completed production.

The price-dependence of industry demand, f(.), is assumed to have a constant elasticity, μ , around the perfect competition equilibrium price, p^{*}.

(p^{*} is a function only of the unit production cost, ω , and the elasticity of substitution, ε , as shown below but can be considered to be a derived parameter of the system.) The elasticity μ is assumed to be less than unity, reflecting the idea that, while the goods offered by different firms in the market are fairly close substitutes, the overall industry demand is inelastic. As the aggregate price moves further away from the competitive-equilibrium value, however, aggregate demand becomes a linear function of price. (If aggregate price-elasticity of demand was constant and less than unity for all prices, colluding firms could earn arbitrarily large profits by charging an arbitrarily large price.) Figure 1.1 shows a plot of the function f(.).



<u>Plot of aggregate demand relative to "reference" aggregate demand, as a</u> <u>function of aggregate price relative to "reference" price.</u>

Specifically, the function f(.) is formulated in terms of the ratio \overline{P}_t/p^* , according to

(1.16)
$$f(\tilde{P}_{t}) = \begin{cases} \chi_{o} - b_{1}\tilde{P}_{t}/p^{*}, \ 0 \leq \tilde{P}_{t}/p^{*} < c_{1}; \\ (\tilde{P}_{t}/p^{*})^{-\mu}, \ c_{1} \leq \tilde{P}_{t}/p^{*} \leq c_{2}; \\ a_{2} - b_{2}\tilde{P}_{t}/p^{*}, \ c_{2} < \tilde{P}_{t}/p^{*} \leq \pi_{o}; \\ 0, \ \pi_{o} < \tilde{P}_{t}/p^{*}, \ \forall t. \end{cases}$$

The parameter χ_0 is the ratio of demand to reference demand at zero price, and π_0 is the ratio of price to competitive equilibrium price at which

demand is zero. Given these cut-off points and the requirement that f(.) be differentiable, the **derived parameters** b_1 , c_1 , a_2 , b_2 , and c_2 fulfill

(1.17)
$$b_1 = \frac{\mu \chi_0}{c_1(1+\mu)'} c_1 = \left(\frac{\chi_0}{1+\mu}\right)^{-1/\mu}; a_2 = b_2 \pi_0; b_2 = \mu c_2^{-1-\mu}; c_2 = \frac{\mu \pi_0}{1+\mu}.$$

Steady-state competitive equilibrium

If the market is in steady-state equilibrium with a constant autonomous demand component, $G_t=G$, inventories will be zero. If **furthermore all firms are assumed to act competitively**, they face the profit maximization problem

(1.18) Max
$$v_i(p_i) = x_i(p_i - \omega)$$
,

where x_i is determined by the structural equations given above. The **steady state**, requires that (assuming firms are producing approximately the same outout)

$$X^* = G(1-\alpha) + \alpha \tilde{X} = G(1-\alpha) + \alpha X^* f(\tilde{P}) \Longrightarrow$$

(1.19) $\widetilde{X}_{ss} = G \frac{(1-\alpha) f(\widetilde{P})}{1 - \alpha f(\widetilde{P})}$, where "ss" stands for steady state.

The first-order condition, assuming other firms hold their prices (not their quantities) constant, yields

$$\begin{split} &\frac{d\mathbf{v}_{i}}{d\mathbf{p}_{i}}=0, =>x_{i}+(\mathbf{p}_{i}-\boldsymbol{\omega})\frac{dx_{i}}{d\mathbf{p}_{i}}=0, =>\\ &x_{i}+(\mathbf{p}_{i}-\boldsymbol{\omega})\left(-\varepsilon x_{i}/\mathbf{p}_{i}+(\varepsilon x_{i'}'\widetilde{\mathbf{P}}+\frac{x_{i}}{\widetilde{X}_{ss}}\frac{d\widetilde{X}_{ss}}{d\widetilde{\mathbf{P}}})\frac{d\widetilde{\mathbf{P}}}{d\mathbf{p}_{i}}\right)=0, =>\\ &x_{i}+x_{i}(\mathbf{p}_{i}-\boldsymbol{\omega})\left(-\varepsilon/\mathbf{p}_{i}+(\varepsilon/\widetilde{\mathbf{P}}+\frac{f'(\widetilde{\mathbf{P}})}{f(\widetilde{\mathbf{P}})[1-\alpha f(\widetilde{\mathbf{P}})]})\frac{1}{K}(\mathbf{p}_{i}/\widetilde{\mathbf{P}})^{-\varepsilon}\right)=0, => \end{split}$$

(1.20)
$$p_{i} + (p_{i}-\omega)\left(-\varepsilon + (\varepsilon + \frac{\widetilde{P} f'(\widetilde{P})}{f(\widetilde{P})} \frac{1}{1-\alpha f(\widetilde{P})})\frac{1}{K}(p_{i}/\widetilde{P})^{1-\varepsilon}\right) = 0.$$

It is possible to show (numerically, at least) that (1.20) has only one positive solution for p_i for any given aggregate price level, \tilde{P} . This in turn implies that the symmetric equilibrium where all firms charge the same price and produce the same output is the only possible Nash equilibrium. If, moreover, the function f(.) is in the constant-elasticity region, the **competitive-equilibirum price for K firms, p_K^***, is given by

(1.21)
$$p_{K}^{*} = \frac{\omega \varepsilon_{K}}{\varepsilon_{K} - 1'} \text{ where } \varepsilon_{K} = \frac{K - 1}{K} \varepsilon + \frac{1}{K} \mu \left[1 - \alpha f(p_{K}^{*})\right]^{-1}.$$

The equation (1.21) cannot be solved analytically, but are easy to solve numerically. Table 1.1 shows the values of p_K^* and teh **competitive-equilibrium output for K firms**, x_K^* , respectively, for various values of K. The assumption underlying these derivation was that firms optimize assuming other firms hold their <u>prices</u> constant (the so-called Bertrand game equilibrium). If, instead, firms assume that other firms hold their <u>sales</u> constant, one can go through a similar set of derivations, to find the **Cournot-equilibrium price**, p_K^{**} , and output, x_K^{**} , respectively. These are also listed in Table 1.1. If the number of firms goes to infinity, the solution converges to the "**perfect**"-competitive-equilibrium price,

(1.22)
$$p^* = \omega \varepsilon / (\varepsilon - 1)$$

and the "perfect"-competitive-equilibrium output, G.

Appendix A

К	E	Bertrand e	quilibriu	n	Cournot equilibrium			
	P _K	'/p*	×ĸ	*/G	₽ _K *	*/p*	×K**/G	
	α=0	α=.5	α=0	α ≔.5	α=0	α=.5	α=0	α=.5
2	1.56	1.27	0.56	0.72		1.66		0.52
3	1.25	1.13	0.73	0.84	2.08	1.26	0.58	0.72
4	1.16	1.09	0.80	0.88	1.64	1.16	0.69	0.81
5	1.12	1.07	0.85	0.91	1.45	1.12	0.76	0.85
6	1.10	1.05	0.87	0.93	1.35	1.09	0.80	0.88
7	1.08	1.04	0.89	0.94	1.29	1.08	0.83	0.90
8	1.07	1.04	0.91	0.95	1.24	1.07	0.85	0.91
9	1.06	1.03	0.92	0.95	1.21	1.06	0.87	0.92
10	1.05	1.03	0.93	0.96	1.18	1.05	0.88	0.93
00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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Table 1.1Non-cooperative steady-state price and output level as a function of thenumber of firms.
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Collusive equilibrium

If, instead, firms collude perfectly, they must solve the joint profitmaximization problem

(1.23) max V =
$$(\tilde{P} - \omega)\tilde{X}$$
, where \tilde{X} must satisfy (1.19).

It is clear that, since the elasticity of aggregate demand is μ <1 around the constant-elasticity region of the function f(.), the collusive equilibrium must lie in the high-price, linear region.¹ By differentiating (1.23) and

¹ If $\alpha > (1-1/\epsilon)^{\mu}$ (which it isn't with the parameters chosen for the experiment), colluding firms could theoretically earn arbitrarily large profits by charging a price which would render the denominator in (1.19) zero: in that case the system has no equilibrium point, and demand can grow forever, fueled by the multiplier process.

inserting (1.19), one can find the profit-maximizing collusive price and output. The process is straightforward but tedious, and only the final results are shown here. The collusive steady-state output, x^M , is

(1.24)
$$x^{M} = \begin{cases} qG/2, & \alpha = 0; \\ (1-\alpha)G \frac{1-q}{\alpha q} & 0 < \alpha < 1, \end{cases}$$

and the **steady-state collusive price**, **p**^M, is

(1.25)
$$p^{M} = \begin{cases} (\omega + \pi_{0})/2, & \alpha = 0 \\ p^{*}(\alpha a_{2} - 1 + q)/(\alpha b_{2}), & 0 < \alpha < 1 \end{cases}, \text{ where}$$
$$q = \sqrt{1 - \alpha(a_{2} - b_{2}(1 - 1/\epsilon))}.$$

Figure 1.2 shows steady-state profits and output as a function of price, all normalized by the competitive-equilibrium values. Thus, colluding firms could earn about 50% more in the complex condition (α =0.5) and about double in the simple condition (α =0).

Appendix A



Steady-state output and profits as a function of price. The parameters in f(.), etc., are those used in the experiment. Note that, for $\alpha > 0$, the system does not have a steady-state solution below a certain price level.

2. Fixed prices

Optimal policy

In the following, firms are assumed to know the complete structure of the system and its parameters. Moreover, in solving for rational expectations, firms are assumed to follow the optimal policy subject only to a random, serially uncorrelated error. Thus, this section does not consider optimal (Bayesian) learning.

Since prices are held fixed at the perfectly-competitive level, p^* , the task of each firm is to meet incoming demand and minimize inventory costs. The demand for each firm is the same, equal to the reference demand, X^* , i.e.,

(2.1)
$$x_{i,t} = (1-\alpha)G + \alpha \frac{1}{\delta+1} (Y_t + S_t).$$

Assuming first that the number of firms, K, is large or that firms believe the effect of their own actions on the aggregate to be negligible, and further assuming that the non-negativity constraint on production is not binding, the dynamic cost minimization problem can be decomposed into separate problems for each time period. One period's production decision affects only the inventory level δ +1 periods hence; demand is assumed to be unaffected by the decision, and the inventory in later periods can be fully regulated by subsequent production decisions. Then, since costs are proportional to the absolute value of inventory, the problem becomes to choose output, $y_{i,t}$ to minimize the expected inventory costs, i.e., to minimize the expected absolute value of inventory. Using the results in Section 8, one finds the first-order condition

(2.2)
$$0 = \frac{\partial}{\partial y_{i,t}} E_t \{ |n_{i,t+\delta+1}| \}$$
$$= [1 - 2F(n_{i,t+\delta+1})] \frac{\partial n_{i,t+\delta+1}}{\partial y_{i,t}}$$
$$= [1 - 2F(n_{i,t+\delta+1})],$$

where E_t is the expectation operator and F(.) is the cumulative distribution function of $n_{i,t+\delta+1}$ conditional on $y_{i,t}$. The first-order condition thus requires the median of $n_{i,t+\delta+1}$ to be zero. Further, since, by successive substitution in equation (1.1),

(2.3)
$$n_{i,t+\delta+1} = n_{i,t} + y_{i,t-\delta} + \dots + y_{i,t-1} + y_{i,t} - x_{i,t} - \dots - x_{i,t+\delta'}$$

the **optimal policy**, **y**_{i,t}^{*}, is

(2.4)
$$y_{i,t}^* = M_t \{x_{i,t} + \dots + x_{i,t+\delta}\} - (y_{i,t-\delta} + \dots + y_{i,t-1} + n_{i,t}),$$

where M_t is the median operator. If the distribution of $x_{i,t} + ... + x_{i,t+\delta}$ is approximately symmetric, as will be assumed in the following, the median

and the mean approximately coincide. One can now write the optimal production policy as

(2.5)
$$y_{i,t}^* = E_t \{x_{i,t} + ... + x_{i,t+\delta}\} - (y_{i,t-\delta} + ... + y_{i,t-1} + n_{i,t}).$$

Defining the individual "supply line", s_{i,t}

(2.6)
$$s_{i,t} = y_{i,t-\delta} + ... + y_{i,t-1}, \forall i,t,$$

and the **desired "supply line"**, s_{i,t}^{*}, as

(2.7)
$$s_{i,t}^* = E_t \{x_{i,t} + ... + x_{i,t+\delta-1}\}, \forall i,t,$$

one can rewrite (2.5) as

(2.8)
$$y_{i,t}^* = E_t \{x_{i,t+\delta}\} + (n^* - n_{i,t})/\tau^* + \beta^* (s_{i,t}^* - s_{i,t})/\tau^*$$
, where
 $\tau^* = \beta^* = 1, n^* = 0.$

Expressed this way, the optimal rule thus has the same general form as the suggested behavioral stock adjustment rule.

Rational expectations, perfect competition

In the following, firms are assumed to be following the optimal policy (2.8) up to a random, serially uncorrelated error, $u_{i,t}$ and to have rational expectations. The number of firms is still assumed to be very large. Thus,

(2.9)
$$y_{i,t} = y_{i,t}^{*} + u_{i,t'} \forall i, t.$$

Since all firms receive identical demand and have the same aggregate information, the desired supply line and expected demand is the same for each and (2.9) is readily aggregated into

(2.10)
$$Y_{t} = Y_{t}^{*} + U_{t'}$$
$$= E_{t} \{X_{t+\delta} - N_{t+\delta}\} + U_{t'}$$
$$= E_{t} \{X_{t} + \dots + X_{t+\delta}\} - (Y_{t-\delta} + \dots + Y_{t-1} + N_{t}) + U_{t'}$$
$$= E_{t} \{X_{t} + \dots + X_{t+\delta}\} - (S_{t} + N_{t}) + U_{t'} \forall t^{2}, \text{ where}$$

(2.11) $U_t = \frac{1}{K}(u_{1,t} + ... + u_{K,t})$ is the aggregate random decision error.

Now consider

(2.12)
$$E_{t}\{Y_{t+s}\} = E_{t}\{E_{t+s}\{X_{t+\delta+s} - N_{t+\delta+s}\} + U_{t+s}\},\$$
$$= E_{t}\{X_{t+\delta+s}\} - E_{t}\{N_{t+\delta+s}\} + E_{t}\{U_{t+s}\},\$$
$$= E_{t}\{X_{t+\delta+s}\}, \forall t \forall s > 0,$$

since the expected error is zero and expected future inventories are zero. Further inserting the equation for demand (2.1) yields

(2.13)
$$E_{t}\{Y_{t+s}\} = (1-\alpha)G + \frac{\alpha}{\delta+1}(E_{t}\{Y_{t+s}\} + ... + E_{t}\{Y_{t+\delta+s}\}), =>$$
$$E_{t}\{Y_{t+s}\} - G = \frac{\alpha}{1-\alpha+\delta} \frac{1}{\delta+1}(E_{t}\{Y_{t+1+s}\} - G + ... + E_{t}\{Y_{t+\delta+s}\} - G), \forall t \forall s > 0.$$

Since

$$\frac{\alpha}{1-\alpha+\delta} < 1,$$

the process (2.13) is stable (Y converges to G) going <u>backwards</u> in time. Conversely, the process is unstable going <u>forwards</u> in time. Thus, the only non-exploding solution to (2.13) is

(2.14)
$$E_t \{Y_{t+s}\} = G; E_t \{X_{t+\delta+s}\} = G, \forall t \forall s > 0.$$

² Since all firm demands are equal, the non-linear aggregate demand, \tilde{X} is identical to the simple arithmetic average, X, which is used in the following.

In effect, the rational-expectations solution requires that all observed imbalances are eliminated "immediately" by adjusting production, so that future production is on average in equilibrium. In the absense of future errors, production would exhibit a one-time spike or dip and then jump to equilibrium.

To find $Y_{t'}$ first consider demand in the current and future δ periods.

$$(2.15) \qquad E_{t}\{X_{t}\} = (1-\alpha)G + \frac{\alpha}{\delta+1}(Y_{t-\delta} + \dots + Y_{t-1} + E_{t}\{Y_{t}\}),$$

$$E_{t}\{X_{t+1}\} = (1-\alpha)G + \frac{\alpha}{\delta+1}(Y_{t-\delta+1} + \dots + Y_{t-1} + E_{t}\{Y_{t}\} + E_{t}\{Y_{t+1}\}),$$

$$\dots,$$

$$E_{t}\{X_{t+\delta}\} = (1-\alpha)G + \frac{\alpha}{\delta+1}(E_{t}\{Y_{t}\} + \dots + E_{t}\{Y_{t+\delta}\}).$$

Summing the δ +1 equations (2.15), and using (2.14), one gets

(2.16)
$$E_{t} \{X_{t} + ... + X_{t+\delta}\} = (\delta+1)(1-\alpha)G + \frac{\alpha}{\delta+1} \Big[Y_{t-\delta} + 2Y_{t-\delta+1} + ... + \delta Y_{t-1} + (\delta-1)E_{t} \{Y_{t}\} + G\delta(\delta+1)/2 \Big],$$
$$= (\delta+1)G + \alpha(E_{t} \{Y_{t}\} - G) + Z_{t'} \forall t,$$

where the auxillary variable, Z_{μ} is defined by

(2.17)
$$Z_t = \frac{\alpha}{\delta + 1} \left[Y_{t-\delta} - G + 2(Y_{t-\delta+1} - G) + ... + \delta(Y_{t-1} - G) \right], \forall t.$$

Inserting this in (2.10) allows one to solve for $E_t{Y_t}$.

$$E_{t}\{Y_{t}\} = E_{t}\{X_{t} + \dots + X_{t+\delta}\} - (S_{t} + N_{t})$$
$$= (\delta+1)G + \alpha(E_{t}\{Y_{t}\} - G) + Z_{t} - (S_{t} + N_{t}), \forall t, =>$$

(2.18) $E_t{Y_t} = G + \frac{1}{1-\alpha}(Z_t - (S_t - \delta G + N_t)), \forall t.$

One can now find $E_{t}{X_{t+\delta}}$ by inserting (2.17) and (2.18) in (2.15), to get

(2.19)
$$E_t \{X_{t+\delta}\} = (1-\alpha)G + \frac{\alpha}{\delta+1} (E_t \{Y_t\} + \delta G)$$

$$= G + \frac{\alpha}{\delta+1} (E_t \{Y_t\} - G)$$
$$= G + \frac{1}{\delta+1} \frac{\alpha}{1-\alpha} (Z_t - (S_t - \delta G + N_t)), \forall t.$$

In similar fashion, one finds S_t^* to be

(2.20)
$$S_t^* = E_t \{X_t + ... + X_{t+\delta}\} - E_t \{X_{t+\delta}\} =$$

= $(\delta+1)G + \alpha(E_t \{Y_t\} - G) + Z_t - G - \frac{\alpha}{\delta+1}(E_t \{Y_t\} - G)$
= $\delta G + \frac{\delta}{\delta+1} \frac{\alpha}{1-\alpha} (Z_t - (S_t - \delta G + N_t)) + Z_{t'} \forall t.$

To summarize, under rational expectations with many firms, and in the absence of binding non-negativity constraints on production, the production policy is

$$(2.21) y_{i,t}^* = E_t \{x_{i,t+\delta}\} + (n^* - n_{i,t})/\tau^* + \beta^* (s_{i,t}^* - s_{i,t})/\tau^*, \\ E_t \{x_{i,t+\delta}\} = G + \frac{1}{\delta+1} \frac{\alpha}{1-\alpha} (Z_t - (S_t - \delta G + N_t)), \\ s_{i,t}^* = \delta G + Z_t + \frac{\delta}{\delta+1} \frac{\alpha}{1-\alpha} (Z_t - (S_t - \delta G + N_t)), \forall t, where \\ Z_t = \frac{\alpha}{\delta+1} \Big[Y_{t-\delta} - G + 2(Y_{t-\delta+1} - G) + \dots + \delta(Y_{t-1} - G) \Big], \forall t, and \\ n^* = 0; \tau^* = \beta^* = 1.$$

Note that if $\delta = 0$, $Z_t = s_{i,t}^* = s_{i,t} = 0$, and (2.21) reduces to

(2.22)
$$y_{i,t}^* = E_t \{x_{i,t+\delta}\} + (n^* - n_{i,t}) / \tau^*,$$

 $E_t \{x_{i,t+\delta}\} = G - \frac{\alpha}{1 - \alpha} N_t, \forall t.$

Likewise, if $\alpha = 0$, (2.21) reduces to

(2.23)
$$y_{i,t}^* = E_t \{x_{i,t+\delta}\} + (n^* - n_{i,t})/\tau^* + \beta^* (s_{i,t}^* - s_{i,t})/\tau^*,$$

 $E_t \{x_{i,t+\delta}\} = G,$

$$s_{i,t}^* = \delta G, \forall t.$$

Performance in stochastic equilibrium

The the aggregate production can be written as

(2.24)
$$Y_t = E_t \{Y_t\} + U_t$$

= $G + \frac{1}{1-\alpha} (Z_t - (S_t - \delta G + N_t)) + U_t$.

Taking first differences on both sides yield

(2.25) (1-L)
$$Y_t = \frac{1}{1-\alpha} ((1-L)Z_t - (1-L)(S_t + N_t)) + (1-L)U_{t'}$$

where L is the lag operator L $x_t = x_{t-1}$; L $E_t x_t = E_{t-1} x_{t-1}$. Taking first differences on both sides of (2.17) yields

(2.26)
$$(1-L)Z_{t} = \frac{\alpha}{\delta+1} \Big[Y_{t-\delta} + 2Y_{t-\delta+1} + \dots + \delta Y_{t-1} - Y_{t-\delta-1} - 2Y_{t-\delta} - \dots - \delta Y_{t-1} \Big]$$
$$= \frac{\alpha}{\delta+1} \Big[\delta Y_{t-1} - Y_{t-\delta-1} - \dots - Y_{t-2} \Big]$$
$$= \frac{\alpha}{\delta+1} (\delta Y_{t-1} - S_{t-1}).$$

Likewise, taking first differences on both sides of (1.12) yields

(2.27)
$$(1-L)S_t = Y_{t-\delta} + \dots + Y_{t-1} - Y_{t-\delta-1} - \dots - Y_{t-2}$$

= $Y_{t-1} - Y_{t-\delta-1}$.

Finally, aggregating the equation (1.1) for inventories yields

(2.28)
$$(1-L)N_t = Y_{t-\delta-1} - X_{t-1}$$
.

By inserting this results and the equation for demand (2.1) into (2.24) one gets

$$(1-L)Y_{t} = \frac{1}{1-\alpha} (\frac{\alpha}{\delta+1} (\delta Y_{t-1} - S_{t-1}) - (Y_{t-1} - X_{t-1})) + (1-L)U_{t'}$$
$$= \frac{1}{1-\alpha} (\frac{\alpha}{\delta+1} (\delta Y_{t-1} - S_{t-1}) - Y_{t-1} + (1-\alpha)G + \frac{\alpha}{\delta+1} (Y_{t-1} + S_{t-1})) + (1-L)U_{t'}$$
$$= G - Y_{t-1} + (1-L)U_{t'} =>$$

(2.29) $Y_t - G = U_t - U_{t-1}$.

Further, inserting (2.29) in (2.1) yields

(2.30)
$$X_{t} - G = \frac{\alpha}{\delta + 1} (Y_{t} - G + ... + Y_{t-\delta} - G)$$
$$= \frac{\alpha}{\delta + 1} (U_{t} - U_{t-1} + ... + U_{t-\delta} - U_{t-\delta-1})$$
$$= \frac{\alpha}{\delta + 1} (U_{t} - U_{t-\delta-1}).$$

Finally, inserting in the equation for inventory yields

$$(1-L)N_{t} = L^{\delta+1}Y_{t} - LX_{t}$$

$$= L^{\delta+1}(1-L)U_{t} - \frac{\alpha}{\delta+1}L(1-L^{\delta+1})U_{t'} =>$$

$$(2.31) \qquad N_{t} = \left(L^{\delta+1} - \frac{\alpha}{\delta+1}L^{\frac{1-L^{\delta+1}}{1-L}}\right)U_{t}$$

$$= -\frac{\alpha}{\delta+1}(U_{t-1} + ... + U_{t-\delta}) + (1 - \frac{\alpha}{\delta+1})U_{t-\delta-1}.$$

Turning now to the production and inventory of individual firms, one first observes from (2.9) and (2.21) that

(2.32)
$$y_{i,t} - G = Y_t - G - U_t + S_t + N_t - s_{i,t} - n_{i,t} + u_{i,t}$$

Taking first differences on both sides, one gets

$$(1-L)y_{i,t} = (1-L)Y_t - (1-L)U_t + (1-L)(S_t + N_t) - (1-L)(S_{i,t} + N_{i,t}) + (1-L)u_{i,t}$$

= (1-L)Y_t - (Y_t - G) + (Y_{t-1} - X_{t-1}) - (y_{i,t-1} - X_{i,t-1}) + (1-L)u_{i,t}
= G - y_{i,t-1} - X_{t-1} + x_{i,t-1} + (1-L)u_{i,t'} =>

(2.33) $y_{i,t} - G = (1-L)u_{i,t} = u_{i,t} - u_{i,t-1}$

In similar fashion, one finds for inventories that

$$(1-L)n_{i,t} = L^{\delta+1}y_{i,t} - Lx_{i,t}$$

= $L^{\delta+1}(1-L)u_{i,t} - \frac{\alpha}{\delta+1}L(1-L^{\delta+1})U_{t'} =>$
(2.34) $n_{i,t} = L^{\delta+1}u_{i,t} - \frac{\alpha}{\delta+1}L\frac{1-L^{\delta+1}}{1-L}U_{t} = u_{i,t-\delta-1} - \frac{\alpha}{\delta+1}(U_{t-1} + ... + U_{t-\delta-1}).$

It is now possible to calculate the expected invenotry costs, if, for instance, one further makes the assumption that the errors, u, are normally distributed. Since n must then also be normally distributed, one finds from Section 8 one finds the expected absolute value of inventory is

(2.35)
$$E_t\{|n_{i,t}|\} = \sqrt{\frac{2}{\pi}} \sigma_{n'}$$

where σ_n^2 is the variance of $n_{i,t}$. Now, further assume that individual errors are serially uncorrelated but correlated accross firms in any given period with correlation coefficient $E\{u_i u_j\} = \rho$. Then, by squaring (2.34) and taking expectations on both sides, one finds that the variance, V{.} of $n_{i,t}$ is

(2.36)
$$V\{n_{i,t}\} = \sigma_n^2 = V\{u_{i,t-\delta-1}\}$$
$$+ \left(\frac{\alpha}{\delta+1}\right)^2 (V\{U_{t-1}\} + \dots + V\{U_{t-\delta-1}\}) - 2\frac{\alpha}{\delta+1} E\{U_{t-\delta-1}u_{i,t-\delta-1}\}$$
$$= \sigma_u^2 + \frac{\alpha^2}{\delta+1} V\{U\} - 2\frac{\alpha}{\delta+1} E\{u_iU\},$$

where σ_u is the variance of $u_{i,t}$. Further, using (2.11) and taking expectations readily yields

(2.37)
$$V\{U\} = (\frac{1}{K})^{2} E\{u_{1}^{2} + ... + u_{K}^{2} + 2u_{1}u_{2} + ... + 2u_{1}u_{K} + 2u_{2}u_{3} + ... + 2u_{K-1}u_{K}\}$$
$$= \frac{1}{K}\sigma_{u}^{2} + \frac{K-1}{K}\rho\sigma_{u}^{2} = (\frac{1}{K} + \frac{K-1}{K}\rho)\sigma_{u}^{2}, \text{ and}$$

(2.38)
$$E\{u_i U\} = (\frac{1}{K} + \frac{1}{K}\rho)\sigma_u^2.$$

Inserting this in (2.36) one further finds

(2.39)
$$V\{n_{i,t}\} = \sigma_u^2 \left(1 - \frac{1 - (1 - \alpha)^2}{\delta + 1}(\rho(1 - 1/K) + 1/K)\right).$$

It can be seen from (2.39) that the variance of inventories is <u>less than or</u> <u>equal</u> to the variance in production, due to the fact that production affects demand. If, for instance, production is too high, demand will also increase somewhat, thus partly offsetting the full impact of the error on inventories. As expected, the effect is greater for higher correlation of errors accross firms, fewer firms, a higher multiplier effect, or a shorter time lag. Under the assumptions used, the average inventory cost will be

(2.40)
$$\gamma E\{|n_{i,t}|\} = \gamma \sigma_u \sqrt{\frac{2}{\pi} \left(1 - \frac{1 - (1 - \alpha)^2}{\delta + 1} (\rho(1 - 1/K) + 1/K)\right)}$$

Minimum-variance criterion in stochastic equilibrium

The rational-expectations solution above was derived under the assumption that the number of firms was essentially infinite. When the number of firms is finite, the optimal policy cannot be derived analytically, but one can instead use optimal control theory to obtain a numerical solution. In this section, the optimal policy is found, using these methods, and both the policy and its performance is compared to the infinite-firm policy at the end of the section.

If the distribution of inventories are approximately normal with a zero mean, the average inventory costs are proportional to the standard deviation of inventories (cf. Section 8.) Thus, minimizing the variance in inventories will also minimize average costs. This means that standard methods for optimal control in linear systems can be used (as long as the non-negativity constraint on production is not binding.)

In such linear systems, the optimal policy is a linear feedback rule, i.e. the optimal production is a linear function of the system states. From the point of view of an individual firm the states of the system are its own inventory and supply line, and the aggregate inventory and supply line. Thus, the optimal policy of the task of an individual firm has the form

(2.41)
$$y_{i,t}^{*} = -(g_{01}n_{i,t} + g_{11}y_{i,t-1} + \dots + g_{\delta 1}y_{i,t-\delta})$$

 $-(g_{02}N_t + g_{12}Y_{t-1} + \dots + g_{\delta 2}Y_{t-\delta}) + u_{i,t'} \forall i,t,$

or, in vector notation,

(2.42)
$$y_{i,t}^* = -g \begin{bmatrix} z_{i,t} \\ Z_t \end{bmatrix} = -g \tilde{z}_{i,t'}$$
 where
 $g = [g_{o1} g_{11} \cdots g_{\delta 1} g_{o2} g_{12} \cdots g_{\delta 2}],$
 $z_{i,t} = [n_{i,t} y_{i,t-1} \cdots y_{i,t-3}]', \text{ and}$
 $Z_t = [N_t Y_{t-1} \cdots Y_{t-3}]'.$

Moreover, knowing that all other firms follow the same policy, one can aggregate (2.42) to get the equations of motions for the entire system. The manipulations are straight-forward but laborious. The result, for δ =3, is

(2.43)
$$\tilde{\mathbf{z}}_{i,t+1} = \begin{bmatrix} \mathbf{z}_{i,t+1} \\ \mathbf{Z}_{t+1} \end{bmatrix} = \underline{\mathbf{P}} \, \tilde{\mathbf{z}}_{i,t} + \mathbf{q} \, \mathbf{y}_{i,t} + \underline{\mathbf{R}} \, \tilde{\mathbf{u}}_{i,t'} \text{ where}$$

$$\underline{\mathbf{P}} = \begin{bmatrix} \underline{\mathbf{P}}_{11} \underline{\mathbf{P}}_{12} \\ \underline{\mathbf{P}}_{21} \underline{\mathbf{P}}_{22} \end{bmatrix}, \, \tilde{\mathbf{u}}_{i,t} = \begin{bmatrix} \mathbf{u}_{i,t} \\ \mathbf{U}_{t} \end{bmatrix},$$
$$\underline{\mathbf{P}}_{11} = \begin{bmatrix} 1 - \frac{\alpha \gamma_{01}}{K(\delta+1)} - \frac{\alpha \gamma_{11}}{K(\delta+1)} - \frac{\alpha \gamma_{21}}{K(\delta+1)} & 1 - \frac{\alpha \gamma_{31}}{K(\delta+1)} \\ 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix},$$

,

$$\underline{\mathbf{P}}_{21} = \frac{1}{K} \begin{bmatrix} -\frac{\alpha \gamma_{01}}{\delta + 1} & -\frac{\alpha \gamma_{11}}{\delta + 1} & -\frac{\alpha \gamma_{21}}{\delta + 1} & -\frac{\alpha \gamma_{31}}{\delta + 1} \\ \gamma_{01} & \gamma_{11} & \gamma_{21} & \gamma_{31} \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

 $\underline{P}_{22} =$

$$\begin{bmatrix} 1 + \frac{\alpha}{\delta + 1} (\gamma_{01} + \frac{(K-1)\gamma_{02}}{K}), \frac{\alpha}{\delta + 1} (\gamma_{11} + \frac{(K-1)\gamma_{12}}{K} - 1), \frac{\alpha}{\delta + 1} (\gamma_{21} + \frac{(K-1)\gamma_{22}}{K} - 1), 1 + \frac{\alpha}{\delta + 1} (\gamma_{31} + \frac{(K-1)\gamma_{32}}{K} - 1) \\ - (\gamma_{01} + \frac{(K-1)\gamma_{02}}{K}) - (\gamma_{11} + \frac{(K-1)\gamma_{12}}{K}) - (\gamma_{21} + \frac{(K-1)\gamma_{22}}{K}) - (\gamma_{31} + \frac{(K-1)\gamma_{32}}{K}) \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix} \\ = \begin{bmatrix} -\frac{\alpha}{K(\delta + 1)} \\ 1 \\ 0 \\ 0 \\ -\frac{\alpha}{K(\delta + 1)} \\ 1/K \\ 0 \\ 0 \end{bmatrix}, \underline{\mathbf{R}} = \begin{bmatrix} 0 & -\frac{\alpha}{\delta + 1} \\ 1 & 0 \\ 0 & 0 \\ 0 & -\frac{\alpha}{\delta + 1} \\ 0 & 1 \\ 0 & 0 \end{bmatrix}.$$

That individual errors, $u_{i,t'}$ do not seem to make any difference in the system is due to the fact that the aggregate effects of this error are subsumed in the aggregate error, U_t . Thus, rather than distinguish between $u_{i,t}$ and all other $u_{j,t'}$ we have chosen to consider U_t as the relevant variable. (Note that U_t and $u_{i,t}$ are correlated, even if $u_{i,t}$ is uncorrelated with $u_{j,t}$).

The individual firms seeks to minimize the variance of its inventory, i.e. it faces the optimization problem

(2.44) min $J_i = E\{ \tilde{z}_{i,t} \underline{F} \tilde{z}_{i,t}' \}$ for all t, where, (2.45) $\underline{F} = \begin{bmatrix} 1 & 0 & \dots & 0 \\ 0 & 0 & \dots & 0 \\ \dots & & & \\ 0 & 0 & \dots & 0 \end{bmatrix}$

and subject to the equations of motion (2.43). The optimal policy, i.e. the optimal "gain vector," g, is

(2.46)
$$\mathbf{g} = (\mathbf{q'}\underline{\mathbf{H}} \mathbf{q})^{-1} \mathbf{q'}\underline{\mathbf{H}} \underline{\mathbf{P}},$$

where $\underline{\mathbf{H}}$ is the solution to the matrix Riccatti equation

(2.47)
$$\underline{\mathbf{H}} = \underline{\mathbf{P}'} \underline{\mathbf{H}} \underline{\mathbf{P}} - \underline{\mathbf{P}'} \underline{\mathbf{H}} \mathbf{q} (\mathbf{q'} \underline{\mathbf{H}} \mathbf{q})^{-1} \mathbf{q'} \underline{\mathbf{H}} \underline{\mathbf{P}} + \underline{\mathbf{F}}^{.3}$$

The equations (2.43), (2.45), (2.46), and (2.47) together identify the rational-expectations solution. They cannot be solved analytically but must instead be determined numerically. The Riccatti equation, taken as an iterative method for finding \underline{H} , will always converge, as long as the system is controllable and observable and the covariance matrix of the errors is positive definite (see e.g. F.C. Schweppe, F.C. *Uncertain dynamic systems*. Englewood Cliffs, NJ: Prentice-Hall, 1973). The complication here, however, is that the feedback gain, \underline{g} , also enters into the system matrix, \underline{P} . In practice, the solutions were found by first iterating \underline{H} for a given \underline{g} , then iterating \underline{g} for a given \underline{H} , etc.

Table 2.1 shows the optimal feedback gain for various values of K, the number of firms. As K goes to infinity, the optimal control law converges to the solution found analytically in the previous section.

³ This result can be found in any standard textbook on optimal control.

Appendix A

	Gain in individual feedback rules,								Aggregate gain			
				y _{i,t} = -	g*z̃i,t'					$Y_t = -6$	G⁺ữ _{t′}	
			$\tilde{z}_{i,t} =$	(n _{i,t} , y _i	,t-1′ ''''	Y _{t-3}).			Ĩ	t = (N _t ,	, Y _{t-3}).
к	ⁿ i,t	у _{і,t-1}	у _{і,t-2}	у _{і,t-3}	Nt	Y _{t-1}	Y _{t-2}	Y _{t-3}	Nt	Y _{t-1}	Y _{t-2}	Y _{t-3}
1									1.143	1.000	1.000	1.000
2	0.800	0.933	0.867	0.800	0.800	0.200	0.400	0.600	1.600	1.133	1.267	1.400
3	0.870	0.957	0.913	0.870	0.870	0.217	0.435	0.652	1.739	1.174	1.348	1.522
4	0.903	0.968	0.935	0.903	0.903	0.226	0.452	0.677	1.806	1.194	1.387	1.581
5	0.923	0.974	0.949	0.923	0.923	0.231	0.462	0.692	1.846	1.205	1.410	1.615
10	0.962	0.987	0.975	0.962	0.962	0.241	0.481	0.722	1.924	1.228	1.456	1.684
∞	1.000	1.000	1.000	1.000	1.000	0.250	0.500	0.750	2.000	1.250	1.500	1.750

Optimal decision rules in fixed-price complex condition, using minimum variance criterion, as a function of the number of firms, K.

We note that, for four or more firms, the optimal policy is quite close to the infinite-firm policy: the coefficients are nearly the same. Thus, it is probably not too bad an approximation to use the infinite-firm policy with four or more firms.

To find the average inventory costs, first find the covariance matrix of the noise, i.e.,

(2.48)
$$E\{\widetilde{\mathbf{u}}_{i,t}, \widetilde{\mathbf{u}}_{i,t}'\} = \underline{\mathbf{W}} = \begin{bmatrix} E\{u_{i,t}^{2}\} E\{u_{i,t}U_{t}\} \\ E\{u_{i,t}U_{t}\} E\{U_{t}^{2}\} \end{bmatrix} = \begin{bmatrix} 1 & \frac{1}{K} + \rho\frac{K-1}{K} \\ \frac{1}{K} + \rho\frac{K-1}{K} \frac{1}{K} + \rho\frac{K-1}{K} \end{bmatrix} \sigma^{2}.$$

Then, the steady-state covariance matrix of the system states, E{ $\tilde{z}_{i,t}$ $\tilde{z}_{i,t}$ } = $\underline{\underline{\Gamma}}$ satisfies the matrix equation

(2.49)
$$\underline{\Gamma} = (\underline{\mathbf{P}} - \mathbf{q} \mathbf{g}) \underline{\Gamma} (\underline{\mathbf{P}} - \mathbf{q} \mathbf{g})' + \underline{\mathbf{R}} \underline{\mathbf{W}} \underline{\mathbf{R}}'.$$

The equation is easy to solve numerically. The computed variances in output and inventories are shown in Table 2.2. Also shown is the

performance resulting from following the infinite-firm optimal policy derived previously. The coefficients in Table 2.1 indicated that the finite-firm and infinite-firm policies are not very different. The 2.2 shows that the performances of the two rules are very close, i.e., that the infinite-firm policy does almost as well as the optimal, even with only a single firm! For instance, in the case of a single firm, the optimal policy results in an average reduction in inventory costs of only 3% compared to the infinite-firm policy. Moreover, if a random-error standard deviation of about 10% of the average production level, inventory costs in the infinite-firm policy amount only to a few percent of average profits. So the difference in performance is neglible.

К	ρ	$V{n_{i,t}}/\sigma^2$		V{y _i ,	$t^{}/\sigma^2$	$V\{N_t\}/\sigma^2$		$V{Y_t}/\sigma^2$	
1		0.766	0.812	1.750	2.000	0.766	0.812	1.750	2.000
2	0	0.898	0.906	1.875	2.000	0.391	0.406	0.937	1.000
	0.5	0.840	0.859	1.875	2.000	0.586	0.609	1.406	1.500
	1	0.781	0.812	1.875	2.000	0.781	0.812	1.875	2.000
3	0	0.934	0.937	1.917	2.000	0.264	0.270	0.639	0.666
1	0.5	0.863	0.875	1.917	2.000	0.527	0.541	1.278	1.333
1	1	0.791	0.812	1.917	2.000	0.791	0.812	1.917	2.000
4	0	0.951	0.953	1.937	2.000	0.199	0.203	0.484	0.500
1	0.5	0.874	0.882	1.937	2.000	0.497	0.507	1.211	1.250
	1	0.796	0.812	1.937	2.000	0.796	0.812	1.937	2.000
5	0	0.961	0.962	1.950	2.000	0.160	0.162	0.390	0.400
	0.5	0.880	0.887	1.950	2.000	0.479	0.487	1.170	1.200
	1	0.799	0.812	1.950	2.000	0.799	0.812	1.950	2.000
10	0	0.981	0.981	1.975	2.000	0.081	0.081	0.197	0.200
1	0.5	0.893	0.896	1.975	2.000	0.443	0.446	1.086	1.100
	1	0.806	0.812	1.975	2.000	0.806	0.812	1.975	2.000
∞	0	1.000	1.000	2.000	2.000	0.000	0.000	0.000	0.000
	0.5	0.906	0.906	2.000	2.000	0.406	0.406	1.000	1.000
	1	0.812	0.812	2.000	2.000	0.812	0.812	2.000	2.000

Table 2.2

<u>Variance of production and inventories in stochastic equilibrium.</u> The figures shown are relative to the random-error variance, using the optimal minimumvariance decision rule (plain text) and the infinite-firm rule (*italic numbers*), respectively. The numbers are shown for three alternative values of the cross-firm correlation, ρ , of the random errors.

3. Clearing prices

In this condition, the computer determines the set of prices which will equate output (i.e. finished production) and demand each period. Thus,

inventories are constantly equal to zero. Assuming firms act competitively, the optimization problem of the individual firm is

(3.1) Max
$$E_{i,t} \{ p_{i,t} x_{i,t} - \omega x_{i,t} \}$$
, where $p_{i,t} = \tilde{P}_t (x_{i,t} / \tilde{X}_t)^{-1/\epsilon}$.

If the number of firms, K, is very large, the aggregate quantities are independent of the individual firm's actions, and the first-order conditions become

(3.2)
$$E_{i,t}\{\widetilde{P}_{t}\widetilde{X}_{t}^{1/\varepsilon}\} \times_{i,t}^{-1/\varepsilon} (\varepsilon - 1)/\varepsilon - \omega = 0, \Longrightarrow$$
$$x_{i,t}^{*} = E_{i,t}\{\widetilde{P}_{t}\widetilde{X}_{t}^{1/\varepsilon}\}^{-1/\varepsilon} (p^{*})^{1/\varepsilon}.$$

Note that this means that

(3.3)
$$E_{i,t}\{p_{i,t}\} = p^*$$
.

If, futher, variances are small, one can use the approximation $E{f(x)} \approx f(E{x})$, so that the approximate optimal competitive policy for many firms becomes

(3.4)
$$x_{i,t}^* = E_{i,t}\{\tilde{X}_t\} (E_{i,t}\{\tilde{P}_t\}/p^*)^{-1/\epsilon}.$$

If the number of firms, K, is small, and one can no longer ignore the effect of the firm's actions on aggregate variables, one must turn to the derivations in Section 1. If the variances are small, one may use the equations in that section directly, substituting aggregates with their expected values, conditional on the choice of $x_{i,t}$. It would seem most natural to use the Cournot equilibrium (where other firms' output is assumed to be constant) instead of the Bertrand equilibrium (where other firms' prices are assumed to be constant.) As mentioned in Section 1, the equation (1.21), or, for that matter, the corresponding Cournot equation, has no analytical solution, except when all firms have equal output and there is no multiplier effect. Under rational expectations with small random deviations, however, the solution would approximately equal the constant output. Hence, the optimal policy in rational-expectations competitive equilibrium is

(3.5)
$$x_{i,t}^* = x_K^*$$
 (Bertrand) or

(3.6)
$$x_{i,t}^* = x_K^{**}$$
 (Cournot).

Note that this is so for both the simple and complex condition since, in the latter, the pipeline is completely cleared for past outputs by the time the current output decision becomes available for sale.

4. Posted prices

Simple condition

In the simple posted-price condition, the firm seeks to maximize its profits before inventory costs while minimizing the latter. It is obvious that, unless the non-negativity constraint on production is binding, the two problems can be separated: since production is costless, the optimal policy is always to choose the output that will minimize expected inventory costs. Conversely, in choosing its price, the firm can ignore inventory considerations. Furthermore, for **small error variances**, one can make the approximation $E\{f(x)\} \approx f(E\{x\})$, and the derivations for the steady-state equilibria in Section 1 apply to the price decision. Assuming also that firms act competitively, the approximate optimal pricing policy is the price that solves

(4.1)
$$p_{i} + (p_{i} - \omega) \left(-\varepsilon + (\varepsilon + \frac{E\{\widetilde{P}\} f'(E\{\widetilde{P}\})}{f(E\{\widetilde{P}\})} \frac{1}{1 - \alpha f(E\{\widetilde{P}\})}) \frac{1}{K} (p_{i} / E\{\widetilde{P}\})^{1 - \varepsilon} \right) = 0,$$

where the expectation E{ } is conditional upon p_i (cf. Section 1), and the time subscripts have been dropped to simplify notation. Further, it is shown in Section 8 that the optimal production policy is the one that sets the median of next period's inventory to zero. Moreover, if the distribution of demand is approximately symmetric, the median and the expected value coincide. Finally, assume that \tilde{P} is close to the competitive-equilibrium value, p_K ^{*} or that K is very large. Then, the optimal policy is

(4.2) $p_{i,t}^* = p_K^*;$

(4.3)
$$y_{i,t}^* = E_{i,t} \{x_{i,t}\} + (n^* - n_{i,t}) / \tau^*; n^* = 0; \tau^* = 1.$$

Complex condition

The market system in the posted complex condition is too complicated to solve analytically for the optimal policy, except in the special case where there are no random errors. However, the system can be approximated

around the equilibrium point with ε Taylor expansion, yielding a linearquadratic optimal control problem which can be analyzed using standard techniques. In the following, the simple posted condition, the deterministic posted complex condition, and the linear-quadratic approximate posted complex condition are treated in turn.

Deterministic case:

As in the simple condition, since there is no direct cost of initiating production, y_t , firms should choose y_t to minimize expected inventory cost. Moreover, assuming that the number of firms, K, is very large, firms can ignore the effect of their output on demand, and the optimal policy is therefore to choose output so that $n_{t+\delta+1} = 0$. Note that the firm cannot influence earlier inventories since it is assumed that the multiplier effect of production on demand is negligible. Thus, the optimal deterministic output policy (for K= ∞) is

(4.3)
$$y_{i,t}^* = x_{i,t} + ... + x_{i,t+\delta} - n_{i,t} - y_{i,t-1} - ... - y_{i,t-\delta}$$

In effect, the production policy "clears the system memory" so that, beyond time t+ δ , the system remains in equilibrium, with output and prices at their competitive-equilibrium values G and p^{*}, respectively. Moreover, since inventory in time t+ δ +1 is "taken care of" by the output decision, p_{t+ δ} is equal to the unconstrainted optimal price, p^{*}. It now remains to find the choice of prices that maximize the expected profits in the intervening periods. The firm thus faces the problem of choosing prices p_{i,t}, ..., p_{i,t+ δ -1} to

(4.4) Max V =
$$v_{i,t} + ... + v_{i,t+\delta}$$

= $x_{i,t}(p_{i,t}-\omega) + ... + x_{i,t+\delta-1}(p_{i,t+\delta-1}-\omega) - \gamma |n_{i,t+1}| - ... - \gamma |n_{i,t+\delta}|.$

To solve this problem, it is easiest to use "dynamic programming", i.e., to work backwards from the period $t+\delta-1$. First, consider the **inventoryclearing price**, p^c , i.e., the price that will bring next period's inventory to zero. The existence of this price presumes that the current inventory plus the production due to arrive in inventory together are non-negative; otherwise, the p^c is best thought of as "infinite." In the following, the firm index, i, has been dropped for notational convenience. One has

(4.5)
$$p_{t+\delta-1}^{c} = \widetilde{P}_{t+\delta-1} \left(\frac{n_{t+\delta-1} + y_{t-1}}{\widetilde{X}_{t+\delta-1}} \right)^{1/\epsilon}, n_{t+\delta-1} + y_{t-1} > 0.$$

Note that in the deterministic case, V is not differentiable around this point. Instead of a stationarity condition, consider the effect separately of small changes in price above or below the clearing value. One has

$$(4.6) \qquad \frac{dV}{dp_{t+\delta-1}} = x_{t+\delta-1} + \frac{dx_{t+\delta-1}}{dp_{t+\delta-1}}(p_{t+\delta-1} - \omega + \gamma)$$
$$= x_{t+\delta-1}(1 - \varepsilon(p_{t+\delta-1} - \omega + \gamma)/p_{t+\delta-1}) \text{ for } p_{t+\delta-1} > p_{t+\delta-1}^{c}$$
$$\frac{dV}{dp_{t+\delta-1}} = x_{t+\delta-1}(1 - \varepsilon(p_{t+\delta-1} - \omega - \gamma)/p_{t+\delta-1}) \text{ for } p_{t+\delta-1} < p_{t+\delta-1}^{c}.$$

Consider now the conditions for the clearing price to be optimal. That would imply that the profit-function has a maximum at that point, i.e., that

$$\frac{dV}{dp_{t+\delta-1}} < 0 \text{ for } p_{t+\delta-1} > p_{t+\delta-1}^{c}$$

$$\frac{dV}{dp_{t+\delta-1}} > 0 \text{ for } p_{t+\delta-1} < p_{t+\delta-1'}^{c} =>$$

$$1 - \varepsilon(p_{t+\delta-1} - \omega + \gamma)/p_{t+\delta-1} < 0 \text{ for } p_{t+\delta-1} > p_{t+\delta-1}^{c}$$

$$1 - \varepsilon(p_{t+\delta-1} - \omega - \gamma)/p_{t+\delta-1} > 0 \text{ for } p_{t+\delta-1} < p_{t+\delta-1'}^{c} =>$$

$$ret - \varepsilon(1, 1/c) - \varepsilon p_{t+\delta-1}^{c} = \varepsilon ret + \varepsilon(1, 1/c)$$

(4.7)
$$p^* - \gamma(1-1/\varepsilon) < p_{t+\delta-1}^c < p^* + \gamma(1-1/\varepsilon).$$

Thus, as long as the inventory-clearing price is within the range in (4.7), it is optimal to charge that price. If the clearing price falls outside this range, V will be differentiable and one can instead use the stationarity condition

$$(4.8) \qquad \frac{\mathrm{dV}}{\mathrm{dp}_{t+\delta-1}} = 0, =>$$

$$\begin{split} & x_{t+\delta-1}(1-\epsilon(p_{t+\delta-1}-\omega+\gamma)/p_{t+\delta-1}) = 0 \text{ for } p_{t+\delta-1}^{C} < p^{*}(1-\frac{\gamma}{\omega}); \\ & x_{t+\delta-1}(1-\epsilon(p_{t+\delta-1}-\omega-\gamma)/p_{t+\delta-1}) = 0 \text{ for } p_{t+\delta-1}^{C} > p^{*}(1+\frac{\gamma}{\omega}), => \\ & p_{t+\delta-1} = p^{*} - \gamma(1-1/\epsilon) \text{ for } p_{t+\delta-1}^{C} < p^{*} - \gamma(1-1/\epsilon); \\ & p_{t+\delta-1} = p^{*} + \gamma(1-1/\epsilon) \text{ for } p_{t+\delta-1}^{C} > p^{*} + \gamma(1-1/\epsilon). \end{split}$$

Thus, the optimal rule, $p_{i,t+\delta-1}^*$ is to charge the clearing price if possible but to limit it to remain within the range (4.7). It is straightforward to show that V is differentiable with respect to the inventory $n_{t+\delta-1}$ and

(4.9)
$$\frac{dV}{dn_{t+\delta-1}} = (1-1/\epsilon)p_{t+\delta-1}^* - \omega \equiv g_{t+\delta-1} \in [-\gamma, \gamma].$$

Now consider the previous period's price, $p_{t+\delta-2}$. Again, the point of departure is the price that will clear inventories, but this time letting the next period's price vary endogenously. Hence, the differentiation of V is done "forwards in time" in the sense that all variables in the current or later periods are allowed to vary endogenously. One gets

$$(4.10) \qquad \frac{dV}{dp_{t+\delta-2}} = x_{t+\delta-2} + \frac{dx_{t+\delta-2}}{dp_{t+\delta-2}}(p_{t+\delta-2} - \omega + \gamma - \frac{dV}{dn_{i,t+\delta-1}})$$
$$= x_{t+\delta-2}(1 - \varepsilon(p_{t+\delta-2} - \omega + \gamma - g_{t+\delta-1})/p_{t+\delta-2}) \text{ for } p_{t+\delta-2} > p_{t+\delta-2}^{c}$$
$$\frac{dV}{dp_{t+\delta-2}} = x_{t+\delta-2}(1 - \varepsilon(p_{t+\delta-2} - \omega - \gamma - g_{t+\delta-1})/p_{t+\delta-2}) \text{ for } p_{t+\delta-2} < p_{t+\delta-2}^{c}.$$

In completely analogous fashion as before, one finds that the optimal policy is to charge the inventory-clearing price $p_{t+\delta-2}^c$, truncated in the interval

(4.11)
$$p_{t+\delta-1}^{*} - \gamma(1-1/\epsilon) < p_{t+\delta-2}^{c} < p_{t+\delta-1}^{*} + \gamma(1-1/\epsilon).$$

Of course, $p_{t+\delta-1}^*$ is a function of $p_{t+\delta-1}$. Nonetheless, one can first compute the inventory-clearing price, then compute the optimal next-period price and then check whether (4.11) holds. If so, the optimal policy is the clearing price. If not, the fact that $p_{t+\delta-1}^*$ as a function of $p_{t+\delta-2}$ has a negative derivative

means that one can always find a price $p_{t+\delta-2}^*$ for which the lower or upper limit in (4.11)--whichever is applicable--holds with equality.

One may continue analogously backwards in time, so that the complete optimal pricing policy is characterized by the conditions

To actually calculate (4.12) requires a limited amount of trial and error but is doable in a finite number of steps. In practice, a wide variety of conditions lead to the inventory-clearing prices being optimal, including the initial conditions used in the experiment.

Stochastic case

An approximation to the optimal policy with less than infite firms and stochastic errors can be obtained by linearizing the equations of motion around the steady-state equilibrium and using a quadratic approximation to the profit function. In Section 6 it is shown that the first-order terms in the profit function can be eliminated by redefining the problem in terms of deviations from the steady state so that standard methods for linear-quadratic optimal control can be used.

The derivations are straightforward in principle but quite tedious. Therefore, only the final results will be presented here.⁴ However, one part deserves special mention. The expected inventory cost are a function of the expected absolute inventory level. If errors are normally distributed, which will be assumed throughout, then it is shown in Section 8 that

(4.13)
$$E\{|n|\} = \frac{2}{\sqrt{2\pi}}\sqrt{Var\{n\}}.$$

This is thus a deviation from all the other terms in the objective function which are proportional to the variance-covariance matrix $E\{z z'\}$. However, one can still achieve a quadratic approximation by considering that the variance in inventories consists of two components, one, call it s², that is related to the policy followed, and one, call it e², that comes from the random errors each period and is independent of the policy. (The two terms are analogous to the two terms of the right-hand side of equation (2.49) in the fixed-price case above.) Hence,

(4.14)
$$\operatorname{Var}\{n\} = s^2 + e^2, =>$$

(4.15)
$$E\{|n|\} = \frac{2}{\sqrt{2\pi}}\sqrt{s^2 + e^2}.$$

Now performing a first-order Taylor expansion of (4.15) with respect to s^2 , one gets

(4.16)
$$E\{|n|\} \approx \frac{2}{\sqrt{2\pi}} (\sqrt{e^2} + \frac{s^2}{2\sqrt{e^2 + s^2}}) = \frac{2}{\sqrt{2\pi}} (\sqrt{e^2} + \frac{Var\{n\} - e^2}{2\sqrt{e^2 + s^2}})$$

Moreover, if $e^2 >> s^2$, a good approximation to the expected inventory cost is

(4.17)
$$E\{\gamma \mid n \mid\} \approx \frac{\gamma e}{\sqrt{2\pi}} + \frac{\gamma}{e\sqrt{2\pi}} \operatorname{Var}\{n\}.$$

Figure 8.1 shows a plot of the approximation compared with the true function. It is evident that even for s^2 approaching e^2 , the approximation is excellent. Hence, as long as the systematic part of the variance is small relative to the unsystematic one, the profit function is well approximated by for purposes of the optimal-control derivations by

⁴ The derivations were done in *Mathematica* and are thus readily reproducible. The file is available upon request.

(4.18)
$$v_{i,t} \approx x_{i,t}(p_{i,t}-\omega) + \frac{\gamma e}{\sqrt{2\pi}} - \frac{\gamma}{e\sqrt{2\pi}} n_{i,t}^2$$

The results are shown in Tables 4.1 through 4.3. The gain vector, g, for the optimal production rule is shown in Table 4.1, for various values of both the number of firms and the standard deviations of the random errors in production and price, respectively. (These errors matter because the unsystematic error variance e^2 is part of the coefficients in the profit function, cf. equation 4.18). Table 4.2 shows the same results for the optimal price rule. It is quite clear that the rules mimic the inventory-clearing rule found in the deterministic case above: The coefficients for production are all quite low while the coefficients for prices are close to the linearized values from the clearing-price rule.

The performance results are shown in Table 4.3. The values shown are the <u>reduction</u> (i.e., a positive number) in profits <u>as a percent of the steady-state</u> <u>profit</u>. The reduction is partitioned into reduced profits before inventory costs, and inventory costs. It is quite clear that the reduction is very slight: by far the greatest portion comes from the unsystematic variance in inventories. This is further underlined by the last column of the table which shows the ratio of the systmatic and unsystematic error in inventory (s/e, cf. equation 4.14). That column also shows that s<<e, so that the quadratic approximation (4.17) is highly accurate (cf. also Figure 8.1).

Appendix A

K	Sy	Sp	Gain vector, g, in feedback rule,							
			$y_{i+} = -g \tilde{z}_{i+1}$							
				~ , ~ , ~						
ļ					^z i,t ⁻	⁽ⁿ i,t' ^y i	i,t-1′ '''	^Y t-3 ⁾		
			n(t)	y(t-1)	y(t-2)	y(t-3)	N(t)	Y(t-1)	Y(t-2)	Y(t-3)
4	.01	.01	03	03	07	03	.02	.09	03	.02
4	.05	.01	03	02	07	03	.02	.09	03	.02
4	.01	.05	04	.06	05	04	.05	.27	.07	.05
4	.05	.05	04	.06	05	04	.05	.27	.07	.05
4	.00	.10	04	.14	02	04	.12	.35	.17	.11
4	.10	.00	02	04	07	02	.02	.02	05	.02
4	.10	.10	04	.14	02	04	.12	.35	.17	.11
~~	.01	.01	.00	.02	.00	.00	.00	.16	.01	.00
~~~	.05	.01	.00	.02	.00	.00	.00	.16	.01	.00
∞	.01	.05	.00	.10	.01	.00	.04	.40	.11	.04
∞	.05	.05	.00	.10	.01	.00	.04	.40	.11	.04
∞	.00	.10	.01	.17	.03	.01	.13	.49	.22	.11
∞	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
∞	.10	.10	.01	.17	.03	.01	.13	.49	.22	.11
	~ ~	· · · ·			<u>Table 4</u>	<u>l.1</u>		•	•	
<b>V</b>	Coet	<u>ficient</u>	s in of	otunal	linear-o	Juadra	tic pro	ductio	n rule.	
<b>N</b>	зу	эр			Gain ve	ctor, g, 1	n reeab	ack rule,		
						$P_{i,t} = \cdot$	g z _{i,t'}			
					~	. (m		V )		
ļ					$z_{i,t} =$	ⁱⁿ i,ť ^y i	i,t-1′ '''	¹ t-3'		
			n(t)	y(t-1)	y(t-2)	y(t-3)	N(t)	Y(t-1)	Y(t-2)	Y(t-3)
4	.01	.01	.48	.00	.01	.48	1.05	18	12	.87
4	.05	.01	.48	.00	.01	.48	1.05	17	12	.87
4	.01	.05	.44	.01	.05	.44	.83	08	.06	.68
4	.05	.05	.44	.01	.05	.44	.83	08	.06	.68
4	.00	.10	.40	.01	.07	.40	.70	01	.14	.57
4	.10	.00	.49	.00	.00	.49	1.11	20	18	.93
4	.10	.10	.40	.01	.07	.40	.70	01	.14	.57
∞	.01	.01	.39	.00	.01	.39	.85	13	08	.69
∞	.05	.01	.39	.00	.01	.39	.85	13	08	.69
∞	01	05	.36	.00	.04	.36	.66	04	.07	.53
	.01	.00						~ .		= 0
∞	.01	.05	.36	.00	.04	.36	.66	04	.07	.53
∞ ∞	.05 .00	.05 .10	.36 .33	.00 .01	.04 .06	.36 .33	.66 .55	04 .02	.07 .13	.53 .44
80 80 80	.01 .05 .00 .10	.05 .10 .00	.36 .33 .40	.00 .01 .00	.04 .06 .00	.36 .33 .40	.66 .55 .93	04 .02 17	.07 .13 17	.53 .44 .77
8 8 8	.01 .05 .00 .10 .10	.05 .05 .10 .00 .10	.36 .33 .40 .33	.00 .01 .00 .01	.04 .06 .00 .06	.36 .33 .40 .33	.66 .55 .93 .55	04 .02 17 .02	.07 .13 17 .13	.53 .44 .77 .44
8 8 8	.01 .05 .00 .10 .10	.05 .10 .00 .10	.36 .33 .40 .33	.00 .01 .00 .01	.04 .06 .00 .06 <u>Table 4</u>	.36 .33 .40 .33 <u>.2</u>	.66 .55 .93 .55	04 .02 17 .02	.07 .13 17 .13	.53 .44 .77 .44

К	Sy	Sp	Reduction in gross profits	Inventory cost	To(al reduction	Systematic relative to unsystematic inventory
			% of steady-	% of steady-	% of steady-	variance
			state profits	state profits	state profits	s/e
4	.01	.01	0.0	1.0	1.0	.04
4	.05	.01	0.2	1.0	1.2	.15
4	.01	.05	0.3	5.0	5.3	.12
4	.05	.05	0.4	5.0	5.4	.16
4	.00	.10	0.9	10.1	11.0	.20
4	.10	.00	0.8	0.3	1.2	.32
4	.10	.10	1.2	10.2	11.4	.25
~~	.01	.01	0.0	1.5	1.5	.03
∞ ∞	.05	.01	0.1	1.5	1.6	.07
∞	.01	.05	0.4	7.5	7.9	.10
∞	.05	.05	0.4	7.5	8.0	.12
~~	.00	.10	1.3	15.2	16.5	.17
8	.10	.00	0.3	0.0	0.3	.14
∞	.10	.10	1.5	15.2	16.7	.20
		Perfor	mance of op	<u>Table 4.3</u> timal linear-or	uadratic rule	s.

Appendix A

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# 5. Variation in rational-expectations stochastic equilibrium.

In the following, it is assumed that the market is in rationalexpectations stochastic equilibrium, i.e., that all firms have rational expectations and that they follow the optimal infinite-firm policies ( $K=\infty$ ), except for an independent and identically distributed random eror. Errors are assumed to be both serially and cross-sectionally uncorrelated. Hence,

(5.1) 
$$y_{i,t} = y_{i,t}^{*} + u_{i,t};$$
  
 $p_{i,t} = p_{i,t}^{*} + w_{i,t};$   
 $E\{u_{i,t}\} = E\{u_{i,t}u_{j,t}\} = E\{u_{i,t}u_{i,s}\} = 0; E\{u_{i,t}^{2}\} = \sigma_{u}^{2}, \forall i, j \neq i, s \neq t.$   
 $E\{w_{i,t}\} = E\{w_{i,t}w_{j,t}\} = E\{w_{i,t}w_{i,s}\} = 0; E\{w_{i,t}^{2}\} = \sigma_{w}^{2}, \forall i, j \neq i, s, t.$   
 $E\{u_{i,s}w_{j,t}\} = 0, \forall i, j, s, t.$ 

It is also helpful to define the aggregate average errors

(5.2) 
$$U_{t} = \frac{1}{K} (u_{1,t} + ... + u_{K,t});$$
$$W_{t} = \frac{1}{K} (w_{1,t} + ... + w_{K,t}).$$

The derivations below are based on a linear first-order approximation around the equilibrium point. The approximation is derived by a Taylor expansion around the equilibrium with respect to the random noise variables. Hence, the results below hold only for small deviations from equilibrium. The results are summarized in Table 5.1, which shows the individual and aggregate production and prices as a function of the individual and random errors.

Condition	Y _t -G	y _t -G	P _t -p*	Pt-P*
Fixed simple	U _t -U _{t-1}	^u t ^{-u} t-1		
Fixed complex	U _t -U _{t-1}	^u t ^{-u} t-1		
Clearing simple	U _t	^u t	-U _t /μ	$(U_t^{-u})/\epsilon - U_t^{/\mu}$
Clearing complex	U _t	^u t	$\frac{\alpha}{4\mu}(U_{t}+U_{t-1}+U_{t-2})+$	$\frac{\alpha}{4\mu}(U_t+U_{t-1}+U_{t-2})+$
			$\frac{1}{\mu}(\frac{\alpha}{4}$ -1)U _{t-3}	$\frac{1}{\mu}(\frac{\alpha}{4}-1)U_{t-3}$ +
				$(U_{t-3} - u_{t-3})/\epsilon$
Posted simple	^U t ^{-U} t-1 ⁻ μV _{t-1}	^u t ^{-u} t-1 ^{-εv} t-1 +(ε–μ)W _{t-1}	w _t	w _t
Posted complex	U _t	^u t	$W_t W_{t-1}^+$	$w_t - w_{t-1} - u_{t-3}/\epsilon$
complex			$\frac{\alpha}{4\mu}(2U_{t-1}+U_{t-2}) +$	$+(\frac{1}{\epsilon}-\frac{1}{\mu})U_{t-3}^{+}$
			$\frac{1}{\mu}(\frac{\alpha}{4}-1)U_{t-3}$	$\frac{\alpha}{4\mu}(2U_{t-1}+U_{t-2}+U_{t-3})$

<u>Table 5.1</u>

Random deviations in stochastic, rational-expectations equilibrium. The table shows the deviations of average and individual prices, as functions of the average and individual random errors. The expressions have been linearized around the mean.

From the analytical expressions in Table 5.1, it is straightforward to calculate the variance in average production (Table 5.2) and average price (Table 5.3).

Appendix A

Condition	Var{Y _t }	Valur (K=4)	Var{y _{i,t} }	Value (K=4)
Fixed simple	$\frac{1}{K}2\sigma_u^2$	$0.50 \sigma_u^2$	$2\sigma_u^2$	$2.00 \sigma_u^2$
Fixed complex	$\frac{1}{K}2\sigma_{u}^{2}$	$0.50 \sigma_u^2$	$2\sigma_u^2$	$2.00 \sigma_u^2$
Clearing simple	$\frac{1}{K}\sigma_{u}^{2}$	$0.25 \sigma_u^2$	$\sigma_u^2$	$1.00 \sigma_u^2$
Clearing complex	$\frac{1}{K}\sigma_{u}^{2}$	0.25 σ _u ²	$\sigma_u^2$	$1.00 \sigma_u^2$
Posted simple	$\frac{1}{K}2\sigma_{u}^{2}+\frac{1}{K}\mu^{2}\sigma_{w}^{2}$	$0.50 \sigma_{\rm u}^{2} +$	$2\sigma_u^2$ +	$2.00 \sigma_{\rm u}^{2}$ +
-		$0.14 \sigma_w^2$	$\left[\frac{1}{K}\mu^{2}+\frac{K-1}{K}\epsilon^{2}\right]\sigma_{W}^{2}$	$4.83 \sigma_w^2$
Posted complex	$\frac{1}{K}\sigma_{u}^{2}$	$0.25 \sigma_u^2$	σ _u ²	$1.00 \sigma_u^2$

<u>Variance of production in stochastic rational-expectations equilibrium</u>

Condition	Var{P _t }	Value (K=4)	Var{p _{i,t} }	Value (K=4)					
Clearing simple	$\frac{1}{K}\mu^{-2}\sigma_u^2$	0.44 σ _u ²	$\left[\frac{K-1}{K}\epsilon^{-2}+\frac{1}{K}\mu^{-2}\right]\sigma_{u}^{2}$	0.56 σ _u ²					
Clearing complex	$\frac{1}{K}\mu^{-2}(1+\alpha^{2}/4 - \alpha^{2}/4) = \alpha/2)\sigma_{u}^{2}$	0.36 σ _u ²	$\frac{\left[\frac{K-1}{K}\epsilon^{-2} + \frac{1}{K}\mu^{-2}(1 + \frac{1}{4}\alpha^{2} - \frac{1}{2}\alpha)\right]\sigma_{u}^{2}}{\frac{1}{2}\alpha}$	0.48 σ ²					
Posted simple	$\frac{1}{K}\sigma_{W}^{2}$	0.25 σ _w ²	σ _w ²	1.00 σ _w ²					
Posted complex	$\frac{\frac{1}{K}2\sigma_{\rm w}^{2} + \frac{1}{K}\mu^{-}}{2)(1 + \frac{3}{8}\alpha^{2} - \frac{1}{2}\alpha)\sigma_{\rm u}^{2}}$	$0.50 \sigma_{\rm w}^2 + 0.38 \sigma_{\rm u}^2$	$2\sigma_{w}^{2} + [\frac{K-1}{K}\epsilon^{-2} + \frac{1}{K}\mu^{-2}$ 2)(1+ $\frac{3}{8}\alpha^{2} - \frac{1}{2}\alpha$ )] $\sigma_{u}^{2}$	$2.00 \sigma_{\rm w}^2 +$ $0.50 \sigma_{\rm u}^2$					
	Table 5.3								

Variance of prices in stochastic rational-expectations equilibrium

In order to calculate the spectral density of the the variance, recall that, for a q'th-order moving-average process

(5.3) 
$$z_t = \theta_0 e_t + \theta_1 e_{t-1} + \dots + \theta_q e_{t-q} = \theta(L) e_t;$$
$$E\{e_t\} = 0; E\{e_t e_{t-i}\} = 0 \text{ for } i \neq 0 \text{ and } \sigma^2 \text{ for } i=0,$$

the spectrum, i.e., the distribution of the variance accross frequencies,  $\boldsymbol{\omega},$  is

(5.4) 
$$f(\omega) = \frac{\sigma^2}{2\pi} \theta(e^{i\omega}) \theta(e^{-i\omega}), \ -\pi \le \omega \le \pi.$$
For a third-order process, this amounts to

(5.5) 
$$f(\omega)\frac{2\pi}{\sigma^2} = \frac{\sigma^2}{2\pi} \Big(\theta_0^2 + \theta_1^2 + \theta_2^2 + \theta_3^2 + [\theta_0\theta_1 + \theta_1\theta_2 + \theta_2\theta_3]\cos(\omega) \\ + [\theta_0\theta_2 + \theta_1\theta_3]\cos(2\omega) + \theta_0\theta_3\cos(3\omega)\Big), \pi \le \omega \le \pi.$$

Note also that, since the Fourier transformation is linear, the spectrum of a sum of two such processes is simply the sum of the spectra.

The spectral density functions,  $f(\omega)$  have been calculated in Table 5.4. The functions are plotted in Figure 5.1 under the assumption that, in the posted-price conditions, the error variances in prices ( $\sigma_w$ ) and output ( $\sigma_u$ ) are equal. Figures 5.2 through 5.5 plots  $f(\omega)$  in the posted-price conditions for various assumptions about the relative sizes of  $\sigma_w$  and  $\sigma_u$ .

Condition	$f[\omega] Y_t - \pi \le \omega \le \pi$	f[ω] P _t -π≤ω≤π
Fixed simple	$\frac{1}{K} \frac{\sigma_u^2}{\pi} (1 - \cos(\omega))$	
Fixed complex	$\frac{1}{K} \frac{\sigma_u^2}{\pi} (1 - \cos(\omega))$	
Clearing simple	$\frac{1}{K} \frac{\sigma_u^2}{2\pi}$	$\frac{1}{K} \frac{\sigma_u^2}{2\pi \mu^2}$
Clearing complex	$\frac{1}{K} \frac{\sigma_u^2}{2\pi}$	$\frac{1}{K} \frac{\sigma_u^2}{2\pi \mu^2} \left[ (1 + \frac{\alpha^2}{4} - \frac{\alpha}{2}) + \frac{(\frac{3\alpha^2}{2} - \frac{\alpha}{2})\cos(\omega) + (\frac{\alpha^2}{4} - \frac{\alpha}{2})\cos(3\omega) + (\frac{\alpha^2}{4} - \frac{\alpha}{4})\cos(3\omega) + (\frac{\alpha^2}{4} - \frac$
		$\left(\frac{\alpha^2}{8}, -\frac{\alpha}{2}\right)\cos(3\omega)$
Posted simple	$\frac{1}{K} \frac{1}{2\pi} (2\sigma_{\rm u}^2 + \mu^2 \sigma_{\rm w}^2 - 2\cos(\omega))$	$\frac{1}{K} \frac{\sigma_w^2}{2\pi}$
Posted complex	$\frac{1}{K} \frac{\sigma_u^2}{2\pi}$	$\frac{\frac{1}{K} \frac{1}{\pi} \sigma_{w}^{2} + \frac{1}{K} \frac{1}{2\pi} (\frac{\sigma_{u}}{\mu})^{2}}{\left[1 + \frac{3}{8} \alpha^{2} - \frac{1}{2} \alpha + (\frac{3}{8} \alpha^{2} - \frac{1}{2} \alpha) \cos(\omega) + \right]}$
		$\left(\frac{1}{4}\alpha^2 - \frac{1}{2}\alpha\right)\cos(2\omega)$

<u>Table 5.4</u> <u>Spectral densities of average price and production in stochastic, rational-</u>  $\frac{expectations equilibrium.}{expectation of the frequency, \omega}$  The expressions are

based on the linearized expressions in Table 5.1.

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Appendix A



Appendix A



Appendix A



Dashed ....e is prices, solid line is output.

6. Note regarding optimal control of linear (time invariant) systems with first-order terms

Normally, linear-quadratic optimal control problems do not involve first-order terms in the objective function. However, as is shown below, it is straightforward to transform a system with first-order terms into one with only quadratic terms in the objective function. Consider the control problem

(6.1) 
$$\min J =$$

$$\lim\{T \to \infty\} \frac{1}{T} \sum_{t=0}^{T-1} (x_t' \frac{1}{2E_{xx}} x_t + u_t' \frac{1}{2E_{uu}} u_t + x_t' \frac{F_{uu}}{E_{xu}} u_t + h_x' x_t + h_u u_t);$$

s.t.

~~

- (6.2)  $\mathbf{x}_{t+1} = \mathbf{\underline{\underline{P}}} \mathbf{x}_t + \mathbf{\underline{\underline{Q}}} \mathbf{u}_t + \mathbf{a}, \quad t \ge 0$
- (6.3)  $x_0 = x^0$  (initial conditions).

x is a n-dimensional vector of state variables, **u** is a p-dimensional vector of control variables,  $\underline{F}_{xx'}, \underline{F}_{uu'}, \underline{F}_{xu}$  are positive semidefinite matrices of dimensions n x n, p x p, and n x p, respectively, and  $\mathbf{h}_x$  and  $\mathbf{h}_u$  are n- and p-dimensional vectors.

The first-order (necessary) conditions are (in addition to (6.2) and (6.3))

(6.4) 
$$\frac{\partial L}{\partial \mathbf{x}_{t}} = \mathbf{\underline{F}}_{\mathbf{x}\mathbf{x}} \mathbf{x}_{t} + \mathbf{\underline{F}}_{\mathbf{x}\mathbf{u}} \mathbf{u}_{t} + \mathbf{h}_{\mathbf{x}} - \mathbf{\psi}_{t} + \mathbf{\underline{P}}' \mathbf{\psi}_{t+1} = 0, \quad t \ge 0$$

(6.5) 
$$\frac{\partial \mathbf{L}}{\partial \mathbf{u}_{t}} = \mathbf{\underline{F}}_{xu}'\mathbf{x}_{t} + \mathbf{\underline{F}}_{uu}\mathbf{u}_{t} + \mathbf{h}_{u} + \mathbf{\underline{Q}}'\boldsymbol{\psi}_{t+1} = 0, \qquad t \ge 0,$$

where  $\psi$  is the n-dimensional co-state vector (i.e. the Lagrangian multiplier).

Now assume that there is some optimal operating point,  $x^*$ , such that, if the system is at that point, it is optimal to let it remain there. More formally, assume that the linear system of equations

(6.6) 
$$x^* = \underline{P} x^* + \underline{Q} u^* + a$$
 (steady state);

(6.7) 
$$\underline{\underline{F}}_{xx}x^* + \underline{\underline{F}}_{xu}u^* + h_x - \psi^* + \underline{\underline{P}}\psi^* = 0;$$

(6.8) 
$$\underline{\underline{F}}_{xu}'x^* + \underline{\underline{F}}_{uu}u^* + \mathbf{h}_u + \underline{\underline{Q}}'\psi^* = 0$$

has a solution  $(x^*, u^*, \psi^*)$ , and define a new system in terms of the deviations from this operating point, as

(6.9) 
$$z_t = x_t - x^*, \quad t \ge 0;$$

(6.10) 
$$\mathbf{v}_{t} = \mathbf{u}_{t} - \mathbf{u}^{*}, \quad t \ge 0;$$

(6.11) 
$$\phi_t = \psi_t - \psi^*, \quad t \ge 0.$$

Now the first-order conditions can be rewritten as

(6.12)	$\underline{\underline{\mathbf{F}}}_{xx}\mathbf{z}_{t} + \underline{\underline{\mathbf{F}}}_{xu}\mathbf{v}_{t} - \phi_{t} + \underline{\underline{\mathbf{P}}}\phi_{t+1} = 0,$	t≥0;

(6.13) 
$$\underline{\underline{F}}_{uu}\mathbf{v}_{t} + \underline{\underline{F}}_{xu}\mathbf{z}_{t} + \underline{\underline{O}}\phi_{t+1} = 0, \qquad t \ge 0,$$

(6.14) 
$$\mathbf{z}_{t+1} = \underline{\underline{\mathbf{P}}} \mathbf{z}_t + \underline{\underline{\mathbf{Q}}} \mathbf{v}_{t'}$$
  $t \ge 0.$ 

The system is now on a form which lends itself to the standard linearquadratic derivation. Thus, the optimal policy is

(6.15) 
$$u_t = u^* - g'(x_t - x^*)$$
, where

(6.16)  $(\underline{\mathbf{P}} - \underline{\mathbf{I}}) \mathbf{x}^* + \underline{\mathbf{Q}} \mathbf{u}^* = -\mathbf{a},$ 

(6.17) 
$$\underline{\underline{F}}_{xx} \quad x^* + \underline{\underline{F}}_{xu} \quad u^* + (\underline{\underline{P}} - \underline{\underline{I}}) \quad \psi^* = -h_{x'}$$

(6.18) 
$$\underline{\underline{F}}_{xu}' x^* + \underline{\underline{F}}_{u} u^* + \underline{\underline{Q}}' \psi^* = -h_{u'}$$

and the gain vector, g, is defined by

(6.19) 
$$\mathbf{g} = (\underline{\mathbf{F}}_{uu} + \underline{\mathbf{Q}'}\underline{\mathbf{H}}\underline{\mathbf{Q}})^{-1} (\underline{\mathbf{Q}'}\underline{\mathbf{H}}\underline{\mathbf{P}} + \underline{\mathbf{F}}_{xu}'),$$

where  $\underline{\mathbf{H}}$  is the solution to the Matrix-Riccatti equation

(6.20) 
$$\underline{\mathbf{H}} = \underline{\mathbf{F}}_{xx} + \underline{\mathbf{P}'} \underline{\mathbf{H}} \underline{\mathbf{P}} - (\underline{\mathbf{F}}_{xu} + \underline{\mathbf{P}'} \underline{\mathbf{H}} \underline{\mathbf{Q}}) (\underline{\mathbf{F}}_{u} + \underline{\mathbf{Q}'} \underline{\mathbf{H}} \underline{\mathbf{Q}})^{-1} (\underline{\mathbf{Q}'} \underline{\mathbf{H}} \underline{\mathbf{P}} + \underline{\mathbf{F}}_{xu}').$$

#### 7. Note regarding non-linear aggregates versus arithmetic averages

In the experimental software, firms observed not the non-linear aggregates  $\tilde{X}$  and  $\tilde{P}$  but the simple arithmetic average sales, X, and the trade-weighted average price, P, defined by

(7.1) 
$$X = \frac{1}{K} [x_1 + ... + x_K];$$

(7.2) 
$$P = \frac{x_1 p_1 + \dots + x_K p_K}{x_1 + \dots + x_K}.$$

From (1.4) and (1.8), it follows that

(7.3) 
$$X P = \tilde{X} \tilde{P}.$$

Moreover, since  $\tilde{X}$  is a convex, homogenous function of its individual components, it must always be less than or equal to the average X. There is therefore a systematic bias between the two variables. X will generally <u>overestimate</u>  $\tilde{X}$ . Conversely, it follows from (7.3) that P will <u>underestimate</u>  $\tilde{P}$ . It is important, therefore, to determine just how important this bias may be. Accordingly, a set of Monte Carlo simulations were performed, with normally or log-normally independently distributed individual prices (with mean 1), and the aggregate and average price were compared. A similar analysis was done for sales. The results are shown in Figure 7.1. As can be seen from the figure, the correlation between the two measures is very high and the bias very small except for very large variances ( $\sigma$ =.5).

Appendix A



Plot of aggregate versus average price and demand

The figure shows the aggregates X and P plotted against the corresponding averages X and P, assuming that the individual x's and p's are normally distributed with mean 1 and variance  $\sigma^2$ . The results have been normalized to "Z-scores", i.e., (X - 1)/ $\sigma$ , etc.

#### 8. Note regarding E{|n|}.

If a random variable, n, with a cumulative distribution function,  $\tilde{F}(n)$  and an expected value of  $\mu$ , one can write the expected absolute value of n as

(8.1) 
$$E\{|n|\} = \int_{-\infty}^{0} -n \, d\widetilde{F}(n) + \int_{0}^{\infty} n \, d\widetilde{F}(n).$$

Suppose further that n can be written as

(8.2) 
$$n = \mu + t$$
,

where the distribution of t, F(t), is independent of  $\mu$ . Then,

(8.3) 
$$E\{ |n| \} = \int_{-\infty}^{-\mu} -(\mu+t) dF(t) + \int_{-\mu}^{\infty} (\mu+t) dF(t),$$
$$= -\mu \int_{-\infty}^{-\mu} dF(t) + \mu \int_{-\mu}^{\infty} dF(t) - \int_{-\infty}^{-\mu} t dF(t) + \int_{-\mu}^{\infty} t dF(t)$$
$$= \mu (1 - 2F(-\mu)) + \int_{-\mu}^{\infty} t dF(t) - \int_{-\infty}^{-\mu} t dF(t).$$

Moreover, by differentiating with respect to  $\mu$ , one finds

(8.4) 
$$\frac{dE\{|n|\}}{d\mu} = 1 - 2F(-\mu) + 2\mu dF(-\mu) - \mu dF(-\mu) - \mu dF(-\mu),$$
$$= 1 - 2F(-\mu).$$

The expected absolute value of n finds its minimum when

(8.5) 
$$\frac{dE\{|n|\}}{d\mu} = 0, =>$$
  
F(- $\mu$ ) = 1/2,

i.e. when  $\mu$  is equal to minus the median of the distribution of the random error, t. Note that if the distribution of t is symmetric, the mean should also be zero.

If, in particular, n, is normally distributed with mean  $\mu$  and variance  $\sigma^2$  , one gets

(8.6) 
$$dF(t) = \phi(t/\sigma)/\sigma = \frac{1}{\sigma\sqrt{2\pi}} e^{-(t/\sigma)^2/2}$$
, and

(8.5) 
$$F(t) = \Phi(t/\sigma) = \int_{-\infty}^{t/\sigma} \frac{1}{\sqrt{2\pi}} e^{-s^2/2} ds,$$

where  $\Phi$  and  $\phi$  are the cumulative and frequency distribution, respectively, of the standard normal distribution.

Inserting this in (8.3) yields

(8.6) 
$$E\{ |n| \} = \mu(1 - 2\Phi(-\mu/\sigma)) + 2\sigma\phi(-\mu/\sigma).$$

If, in particular,  $\mu$  is zero, (8.6) becomes

(8.7) 
$$E\{|n|\} = 2\sigma\phi(0) = \sqrt{\frac{2}{\pi}\sigma}.$$

One can also approximate the expression (8.6) with a second-order Taylor expansion around the point  $\mu$ =0. One gets

(8.8) 
$$E\{|n|\} \approx \sqrt{\frac{2}{\pi}} \sigma [1 + \frac{1}{2} (\mu/\sigma)^2].$$

Figure 8.1 shows a plot of  $E\{|n|\}/\sigma$  and the approximation (8.8) as a function of  $\mu/\sigma$ . It is evident that, within one standard deviation, the approximation is very good.



 $\frac{Figure \ 8.1}{Plot of the expected absolute value of a normally distributed variable, x, as a function of its}$ mean. Also shown is the quadratic Taylor approximation around the point x=0. All measures have been normalized by the standard deviation of x.

System	Price regime									
Structure	Fixed	Posted	Clearing							
	Prices are constant	Sellers set prices	Market-clearing prices found by computer							
	<ul> <li>Demand met via inventory/backlog fluctuations</li> </ul>	<ul> <li>Demand met via inventory/backlog fluctuations</li> </ul>	<ul> <li>No inventories or backlogs needed</li> </ul>							
Simple										
<ul> <li>No production lags</li> <li>No multiplier effect on demand</li> </ul>	Condition 1	Condition 3	Condition 5							
Complex • 3-period production lag • Multiplier effect on demand	Condition 2	Condition 4	Condition 6							

Table	311.	Exper	rimental	treatment	design
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Symbol	Text	Value
α	Marginal propensity to consume	0 or 0.5
δ	Production lag	0 or 3
γ/ω	Unit inventory cost, relative to unit	0.5
	production cost	
3	Price elasticity of individual-firm demand	2.5
μ	Price elasticity of industry demand around	0.75
	competitive equilibrium	
π	Ratio of price to "reference" price at which	4
Ű	aggregate demand is zero	
χ _o	Ratio of demand to "reference" demand when	3
Ŭ	aggregate price is zero	
ω	Unit production cost	Arbitrary
G	Equilibrium output level	Arbitrary
σ	Standard deviation of random error in	.10
	demand (selected cases only)	
ρ	Cross-firm correlation of random error in	.50
	demand (selected cases only)	

<u>Table 3.1.2: System parameter values.</u> The parameters for random errors apply only in those cases where such errors were introduced (not in the primary data set).

Educational status											
Undergraduate	Master's	Ph.D.	Other	Total							
43	45	7	2	97							
		Affiliation									
MIT Sloan	Other MIT	Harvard	Other	Total							
43	20	29	5	97							
Background in	None	Elementary	Intermediate	Advanced							
Economics	19	41	26	11							
Stat./OR	28	29	30	10							
System dynamics	72	21	4								

Table 3.3.1: Summary of subject backgrounds.

Financial		<b>Production</b> and	l sales	Prices, etc.	Forecasts		
Revenue	Mkt. avg. revenue	Production starts	Mkt. avg. prod. starts	Price	Sales forecast		
Cost of goods sold	Mkt. avg. cost of goods sold	Units in production	Mkt. avg. units in prod.	Market avg. Price	Sales forecast error		
Gross profits	Mkt. avg. gross profits	Finished production	Mkt. avg. fin. prod.	Market highest Price	Sales forecast score		
Inventory costs	Mkt. avg. invent. costs	Înventory	Mkt. avg. inventory	Market lowest Price	Sales forecast		
Net profits	Mkt. avg. net profits	Sales	Mkt. avg. sales	Price/mkt. avg. price	Sales forecast error		
Cumulative	Mkt. avg.			Sales/mkt.	Sales forecast		
	cuin proms			avg. sales	SCOLE		

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Table 3.3.2: Historical data available to subjects during experiment.

	Table number											
1	2	3	4	5								
		Variables										
Revenue	Production starts	Price	Sales	<empty></empty>								
Cost of goods sold	Units in production	Mkt. avg. Price	Mkt. avg. Sales	<empty></empty>								
Inventory costs	Finished production	Price forecast	Sales forecast	<empty></empty>								
Net profits	Inventory	Price forecast error	Sales forecast error	<empty></empty>								
Cumulative profits	Sales	Price forecast score	Sales forecast score	<empty></empty>								

Table 3.3.3.: Initial definition of historical data tables available to subjects

	Graph no.											
1	2	3	4	5	6							
		Horizo	ntal axis									
Time	Time	Time	Price/mkt. avg. price	Mkt. avg. sales	Mkt.avg. units in prod.							
		Vertic	al axis									
Gross profits	Production starts	Price	Sales/mkt. avg. sales	Mkt. avg. price	Mkt. avg. sales							
Inventory costs	Inventory	Mkt. avg. price										
Net profits	Sales	Mkt. lowest price										
Mkt. avg. net profits	Mkt. avg. sales	Mkt. highest price										

Table 3.3.4: Historical data plots available to subjects.

### **Appendix B: Simulations**

In connection with the formation of the experimental hypotheses, a large number of simulations were performed to chart the range of possible behaviors one could expect. For each condition, two kinds of simulations were performed: A set of "optimal" simulations, based on the assumption that firms correctly estimate the structural parameters of the system and, once these parameters have become known, switch to the optimal decision rule, and a set of "behavioral" simulations, based on a simple set of decision rules with unchanging parameters. This appendix documents the simulation models in detail and tabulates the results for each of the six conditions. The first part lists the complete equations for each simulation model. The second part is a series of tables of the simulation outcomes.

#### Simulation models

#### Fixed-price simple condition

#### **Optimal** model

For this condition, the optimal model is functionally equivalent to the behavioral model with the parameters

 $\tau = 1$ ;  $a_1 = 1$ ;  $a_2 = 0$ ;  $\sigma_x = 0$  (see below).

#### Behavioral model

$$\begin{split} y_{i,t} &= Max\{0, x_{i,t}^{e} - n_{i,t}/\tau + u_{i,t}\}, \ t > 0; \\ u_{i,t} &\sim N(0, \sigma_{y}^{2}); \\ y_{i,o} &= x_{o}; \end{split}$$

$$x_{i,t}^{e} = x_{i,t-1}^{e} + a_{1}(x_{i,t-1} - x_{i,t-1}^{e}) + a_{2}(x_{i,t-1} - x_{i,t-2}) + w_{i,t'} t>0;$$
  

$$x_{i,o}^{e} = x_{o} + w_{i,t'};$$
  

$$w_{i,t} \sim N(0, \sigma_{x}^{2});$$
  

$$x_{o} = \frac{2}{3}G; G = 1; p_{o} = p_{i,t} = p^{*} = 1; K = 4.$$

Fixed-price complex condition

## Optimal model

$$\begin{split} y_{i,t} &= Max\{0, \hat{G}_{t} + \hat{\alpha}_{t}(Z_{t} - 3\hat{G}_{t} - N_{t} - S_{t})/(1 - \hat{\alpha}_{t}) + Z_{t} + 3\hat{G}_{t} - n_{i,t} - s_{i,t} + u_{i,t} \}, t > 0; \\ u_{i,t} \sim N(0, \sigma_{y}^{-2}); \\ \hat{G}_{t} &= G, \hat{\alpha} = \alpha \text{ for Est false}; \\ \hat{G}_{t} &= x_{o'}, t \leq 3, \hat{G}_{t} = G, t > 3, \text{ for Est true}; \\ \hat{\alpha}_{t} &= 0, t \leq 3, \hat{\alpha}_{t} = \alpha, t > 3, \text{ for Est true}; \\ Z_{t} &= \hat{\alpha}_{t}^{*}(\frac{3}{4}Y_{t-1} + \frac{1}{2}Y_{t-2} + \frac{1}{4}Y_{t-3} - \frac{3}{2}\hat{G}_{t}), t \geq 0; \\ x_{o} &= \frac{2}{3}G; G = 1; p_{o} = p_{i,t} = p^{*} = 1; K = 4. \end{split}$$

### Behavioral model

$$y_{i,t} = Max\{0, x_{i,t}^{e} + (n^* - n_{i,t})/\tau + \beta (s_{i,t}^{d} - s_{i,t})/\tau\}, t>0;$$
  

$$u_{i,t} \sim N(0, \sigma_y^{-2});$$
  

$$s_{i,t}^{d} = 3\theta x_{i,t}^{e} + (1-\theta) s_{c'} t>0;$$
  

$$y_{i,0} = x_{o'};$$

$$x_{i,t}^{e} = x_{i,t-1}^{e} + a_{1}(x_{i,t-1} - x_{i,t-1}^{e}) + a_{2}(x_{i,t-1} - x_{i,t-2}) + w_{i,t'} t>0;$$
  

$$x_{i,o}^{e} = x_{o} + w_{i,t'};$$
  

$$w_{i,t} \sim N(0, \sigma_{x}^{2});$$
  

$$x_{o} = \frac{2}{3}G; G = 1; n^{*} = 0; p_{o} = p_{i,t} = p^{*} = 1; K = 4.$$

Clearing-price simple condition

#### **Optimal model**

- $y_{i,0} = x_0$ .
- $u_{i,t} \sim N(0, \sigma_y^2);$

$$x_0 = \frac{2}{3}G; G = 1; n^* = 0; K = 4; p^* = 1; p_0 = steady-state price, given x_0$$

Parameters known (Est false), no collusion (M false):

$$y_{i,t} = G + u_{i,t'} t > 0.$$

Parameters known (Est false), with collusion (M true):

$$y_{i,t} = x_K^M + u_{i,t'} t > 0.$$

Parameters unknown (Est true):

$$y_{i,t} = x_0 + u_{i,t'} \ 0 < t \le 3;$$
  
$$y_{i,t} = \hat{a}_0 + \hat{a}_1 p_{i,t}^{\ d} + u_{i,t'} \ t > 3;$$

 $a_0^{\circ}$  and  $a_1^{\circ}$  are estimated from the equation X =  $a_0^{\circ} + a_1^{\circ}$  P, using data from the previous N_s periods.

No collusion (M false):

$$p_{i,t}^{d} = \omega \hat{\varepsilon}_{i,t}^{\prime} / (1 - \hat{\varepsilon}_{i,t}^{\prime}), t>3;$$

 $\hat{\varepsilon}_{i,t}$  is estimated from the equation  $\ln(x_i/X) = \varepsilon \ln(p_i/P)$ , using data from the previous N_s periods.

With collusion (M true):

$$p_{i,t}^{d} = \frac{1}{2} (\omega - \hat{a}_{0}/\hat{a}_{1}).$$

#### Behavioral model

$$\begin{aligned} \ln(y_{i,t}) &= (1-a_{0})\ln(y_{i,t-1}) + a_{0}\ln(Y_{t-1}) + a_{1} \Delta v_{i,t-1} + a_{2} \Delta V_{t-1} + a_{3} dv_{i,t-1} + u_{i,t}; \\ y_{i,0} &= x_{0}; \\ u_{i,t} &\sim N(0, \sigma_{y}^{-2}); \\ \Delta v_{i,t} &= (v_{i,t} - V_{t})/(x_{i,t} - X_{t}) \text{ if } |x_{i,t} - X_{t}| \geq \sigma_{y}/10, \text{ else } \Delta v_{i,t-1}; \\ \Delta V_{t} &= (V_{t} - V_{t-1})/(X_{t} - X_{t-1}) \text{ if } |X_{t} - X_{t-1}| \geq \sigma_{y}/10, \text{ else } \Delta V_{t-1}; \\ dv_{i,t} &= (v_{i,t} - v_{i,t-1} + b(V_{t} - V_{t-1}))/(x_{i,t} - x_{i,t-1} + b(X_{t} - X_{t-1})) \\ \text{ if } |x_{i,t} - x_{i,t-1} + b(X_{t} - X_{t-1})| \geq \sigma_{y}, \text{ else } dv_{i,t-1}. \\ \Delta v_{i,0} &= \Delta V_{0} = dv_{i,0} = p_{0} - \omega. \end{aligned}$$
If "Discrete" is true, then all the profit gradients,  $\Delta v$ , are replaced by  $\text{sgn}(\Delta v). \end{aligned}$ 

$$x_0 = \frac{2}{3}G; G = 1; n^* = 0; K = 4; p^* = 1; p_0 = steady-state price, given x_0.$$

Clearing-price complex condition

#### **Optimal model**

$$y_{i,o} = x_o$$
.  
 $u_{i,t} \sim N(0, \sigma_y^2);$   
 $x_o = \frac{2}{3}G; G = 1; n^* = 0; K = 4; p^* = 1; p_o = \text{steady-state price, given } x_o.$ 

Parameters known (Est false), no collusion (M false):

$$y_{i,t} = G + u_{i,t'} t > 0.$$

Parameters known (Est false), with collusion (M true):

$$y_{i,t} = x_K^M + u_{i,t'} t > 0.$$

Parameters unknown (Est true):

No collusion (M false):

$$y_{i,t} = x_{0} + u_{i,t}, \ 0 < t \le 4;$$
  

$$y_{i,t} = \hat{G}_{i,t} + u_{i,t}, \ t > 4;$$
  

$$\hat{G}_{i,t} = (\omega \hat{p}_{i,t}^{*} - \hat{a}_{0})/(\hat{a}_{1} + \hat{a}_{2});$$
  

$$\hat{p}_{i,t}^{*} = \omega \hat{\varepsilon}_{i,t} / (1 - \hat{\varepsilon}_{i,t}), \ t > 4;$$

 $\hat{\varepsilon}_{i,t}$  is estimated from the equation  $\ln(x_i/X) = \varepsilon \ln(p_i/P)$ , using data from the previous N_s periods.

 $a_0, a_1, and a_2$  are estimated from the equation  $P = a_0 + a_1(S + Y)/4 + a_2X$ , using data from the previous N_s periods.

With collusion (M true):

$$y_{i,t} = \hat{x}_{t}^{M} + u_{i,t};$$
$$\hat{x}_{t}^{M} = \frac{1}{2}(\omega - \hat{a}_{0})/(\hat{a}_{1} + \hat{a}_{2});$$

**Behavioral model** 

 $\ln(y_{i,t}) = (1-a_0)\ln(y_{i,t-1}) + a_0\ln(Y_{t-1}) + a_1 \Delta v_{i,t-1} + a_2 \Delta V_{t-1} + a_3 dv_{i,t-1} + u_{i,t'}$ t>0;

 $y_{i,0} = x_{0'}$ 

$$\begin{aligned} u_{i,t} \sim N(0, \sigma_y^{2}); \\ \Delta v_{i,t} &= (v_{i,t}^{-}V_t)/(x_{i,t}^{-}X_t) \text{ if } |x_{i,t}^{-}X_t| \ge \sigma_y/10, \text{ else } \Delta v_{i,t-1}; \\ \Delta V_t &= (V_t^{-}V_{t-1})/(X_t^{-}X_{t-1}) \text{ if } |X_t^{-}X_{t-1}| \ge \sigma_y/10, \text{ else } \Delta V_{t-1}; \\ dv_{i,t} &= (v_{i,t}^{-}v_{i,t-1} + b(V_t^{-}V_{t-1}))/(x_{i,t}^{-}x_{i,t-1} + b(X_t^{-}X_{t-1})) \\ \text{ if } |x_{i,t}^{-}x_{i,t-1} + b(X_t^{-}X_{t-1})| \ge \sigma_{y'} \text{ else } dv_{i,t-1}. \\ \Delta v_{i,t} &= \Delta V_t = P_t - \omega, t \le 3; \\ dv_{i,0} &= p_0 - \omega; \end{aligned}$$
If "Discrete" is true, then all the profit gradients,  $\Delta v_t$  are

replaced by  $sgn(\Delta v)$ . prom gra

$$x_0 = \frac{2}{3}G; G = 1; n^* = 0; K = 4; p^* = 1; p_0 = steady-state price, given x_0.$$

#### **Optimal model**

$$y_{i,o} = x_o$$
.  
 $u_{i,t} \sim N(0, \sigma_y^2);$   
 $x_o = \frac{2}{3}G; G = 1; n^* = 0; K = 4; p^* = 1; p_o = \text{steady-state price, given } x_o.$   
 $p_{i,t} = p_{i,t}^d, t > 0.$ 

Parameters known (Est false), no collusion (M false):

$$y_{i,t} = Max\{0, G - n_{i,t} + u_{i,t}\}, t > 0.$$

Parameters known (Est false), with collusion (M true):

$$y_{i,t} = Max\{0, x_K^M - n_{i,t} + u_{i,t}\}, t>0.$$

Parameters unknown (Est true):

$$y_{i,t} = Max\{0, x_0 - n_{i,t} + u_{i,t}\}, \ 0 < t \le 3;$$
$$y_{i,t} = Max\{0, a_0 + a_1 p_{i,t}^d + u_{i,t}\}, \ t > 3;$$

 $a_0^{\wedge}$  and  $a_1^{\wedge}$  are estimated from the equation X =  $a_0^{\vee} + a_1^{\vee}$  P, using data from the previous N_s periods.

No collusion (M false):

$$p_{i,t}^{d} = \omega \hat{\varepsilon}_{i,t}^{\prime} / (1 - \hat{\varepsilon}_{i,t}^{\prime}), t>3;$$

 $\hat{\varepsilon}_{i,t}$  is estimated from the equation  $\ln(x_i/X) = \epsilon \ln(p_i/P)$ , using data from the previous N_s periods.

With collusion (M true):

$$p_{i,t}^{d} = \frac{1}{2} (\omega - a_0^{n/a_1}).$$

Behavioral model

$$\begin{split} y_{i,t} &= Max\{0, x_{i,t}^{e} - n_{i,t}/\tau + u_{i,t}\}, t > 0; \\ x_{i,t}^{e} &= x_{i,t-1}^{e} + a_{1}(X_{t-1} - x_{i,t-1}^{e}) + a_{2}(X_{t-1} - X_{t-2}) + w_{i,t'} t > 0; \\ x_{i,o} &= x_{o} + w_{i,o}; \\ w_{i,t} &\sim N(0,\sigma_{x}^{-2}); \\ p_{i,t} &= [b_{o}ln(P_{t-1}) + (1 - b_{o})ln(p_{i,t-1})] Exp(b_{1}\Delta v_{i,t-1} + b_{2}\Delta V_{t-1} + r_{i,t}), t > 0; \\ r_{i,t} &\sim N(0,\sigma_{p}^{-2}); \\ p_{i,o} &= p_{o'}; \\ \Delta v_{i,t} &= (v_{i,t} - V_{t})/(p_{i,t} - P_{t}) \text{ if } |p_{i,t} - P_{t}| \ge d, \text{ else } \Delta v_{i,t-1}; \\ \Delta V_{t} &= (V_{t} - V_{t-1})/(P_{t} - P_{t-1}) \text{ if } |P_{t} - P_{t-1}| \ge d, \text{ else } \Delta V_{t-1}; \\ \Delta v_{i,o} &= 0; \ \Delta V_{o} &= 0; \end{split}$$

If "Discrete" is true, then all the profit gradients,  $\Delta v$ , are replaced by sgn( $\Delta v$ ).

Posted-price complex condition

Optimal model  $y_{i,0} = x_0$ .  $u_{i,t} \sim N(0, \sigma_y^2);$   $x_0 = \frac{2}{3}G; G = 1; n^* = 0; K = 4; p^* = 1; p_0 = \text{steady-state price, given } x_0.$   $y_{i,t} = Max\{0, x_{i,t}^d + (1-a)(3 - 1.5\alpha_t)x_{i,t}^d/(1-\alpha_t) - Z_t - n_{i,t} - s_{i,t}) + u_{i,t}\}, t>0;$ known (Est false), no collusion (M false):

 $x_{i,t}^{d} = G, \alpha_{t}^{n} = \alpha.$ 

Parameters known (Est false), with collusion (M true):

$$x_{i,t}^{d} = x_{M'} \stackrel{\wedge}{\alpha_{t}} = \alpha.$$

Parameters unknown (Est true):

$$x_{i,t}^{d} = X_{t-1}, \ 0 < t \le 3;$$
  
$$x_{i,t}^{d} = (\hat{a}_{0} + \hat{a}_{1}p_{i,t}^{d})/(1-\hat{a}_{2}), \ t > 3;$$

 $a_0^{\wedge}, a_1^{\wedge}$  and  $a_2^{\wedge}$  are estimated from the equation  $X = a_0^{\vee} + a_1^{\vee} P + a_2^{\vee} (S+Y)/4$ , using data from the previous N_s periods.

No collusion (M false):

$$p_{i,t}^{d} = \omega \hat{\varepsilon}_{i,t}^{\prime} / (1 - \hat{\varepsilon}_{i,t}^{\prime}), t>3;$$

 $\hat{\varepsilon}_{i,t}$  is estimated from the equation  $\ln(x_i/X) = \varepsilon \ln(p_i/P)$ , using data from the previous N_s periods.

With collusion (M true):

$$p_{i,t}^{d} = \frac{1}{2} (\omega - \hat{a}_{0}^{\prime} / \hat{a}_{1}^{\prime}).$$

$$p_{i,t} = a p_{i,t}^{c} [(N_{t} + Y_{t-\delta}) / (n_{i,t} + y_{i,t-\delta})]^{1/\epsilon} + (1-a) p_{i,t}^{d} + w_{i,t}^{\prime},$$

$$w_{i,t} \sim N(0, \sigma_{p}^{2});$$

Parameters known (Est false):

 $p_{i,t}^{c} = P_{t}^{c}$  = true aggregate clearing price.

Parameters estimated (Est true):

$$p_{i,t}^{c} = p_{i,t}^{d}$$
 for  $0 \le t \le 3$ ;  
 $p_{i,t}^{c} = (N_t + Y_{t-\delta} - \hat{a}_0 - \hat{a}_2(S_t + x_{i,t}^{d})/4)/\hat{a}_1;$ 

 $Z_t$  is defined in the optimal rule in Appendix A, but replacing  $\alpha$  with  $\alpha$  and G with  $X_{t-1}$ .

#### Behavioral model

$$y_{i,t} = Max\{0, x_{i,t}^{e} + (n^{*} - n_{i,t})/\tau + \beta (s_{i,t}^{d} - s_{i,t})/\tau \}, t>0;$$
  

$$u_{i,t} \sim N(0, \sigma_{y}^{2});$$
  

$$s_{i,t}^{d} = 3\theta x_{i,t}^{e} + (1-\theta) s_{c'} t>0;$$
  

$$y_{i,0} = x_{0};$$
  

$$x_{i,t}^{e} = x_{i,t-1}^{e} + a_{1}(x_{i,t-1} - x_{i,t-1}^{e}) + a_{2}(x_{i,t-1} - x_{i,t-2}) + w_{i,t'} t>0;$$
  

$$x_{i,0}^{e} = x_{0} + w_{i,t'};$$
  

$$w_{i,t} \sim N(0, \sigma_{x}^{2});$$
  

$$x_{0} = \frac{2}{3}G; G = 1; n^{*} = 0; p_{0} = p_{i,t} = p^{*} = 1; K = 4.$$

$$\begin{split} p_{i,t} &= P_{t-1} \; \text{Exp}(\mathbf{b}_{1} \Delta \mathbf{v}_{i,t-1} + \mathbf{b}_{2} \Delta V_{t-1} + \mathbf{b}_{3}(n_{i,t} + y_{i,t-\delta} - x_{i,t}^{e}) + r_{i,t}), \; t>0; \\ r_{i,t} &\sim N(0,\sigma_{p}^{-2}); \\ p_{i,o} &= p_{o'}; \\ \Delta \mathbf{v}_{i,t} &= (\mathbf{v}_{i,t} - V_{t}) / (p_{i,t} - P_{t}) \; \text{if } |p_{i,t} - P_{t}| \geq \mathbf{d}, \; \text{else } \Delta \mathbf{v}_{i,t-1}; \\ \Delta V_{t} &= (V_{t} - V_{t-1}) / (P_{t} - P_{t-1}) \; \text{if } |P_{t} - P_{t-1}| \geq \mathbf{d}, \; \text{else } \Delta V_{t-1}; \\ \Delta \mathbf{v}_{i,o} &= 0; \; \Delta V_{o} = 0; \end{split}$$

If "Discrete" is true, then all the profit gradients,  $\Delta v$ , are replaced by sg1.( $\Delta v$ ).

#### Simulation results

The results are based on 20 simulations of 40 time periods each for each combination of parameters. The symbol ### means that the values exceed 1000, indicating that the system is unstable. The column "Crash" indicates how many out of the 20 simulations that led to infinite or undefined quantities (as a results of instability.) Otherwise, the following results are calculated:

S{Y}, t>10	standard deviation in Y _t , t>10;
S{P}, t>10	standard deviation in P _t , t>10;
Rev., t>10	average revenue, t>10;
P.C., t>10	average production cost, t>10;
G.P., t>10	average gross profits, t>10;
In.C., t>10	average inventory costs, t>10;
Prof., t>10	average net profits, t>10;
S{Y}, t≤20	standard deviation in Y _t , t≤20;
P, t≤20	average P _t , t≤20;
S{P}, t≤20	standard deviation in $P_{t'} t \le 20$ ;
S{Y}, t>20	standard deviation in Y _t , t> 20;
P, t>20	average P _t , t>20;
S{P}, t>20	standard deviation in P _t , t>20.

### Fixed-price simple condition, behavioral and optimal model

aı	an	τ	σ.,	σ	Cras	SIY	S{P}	Rev.	P.C.	G.P.	In.C.	Prof.	S(Y)	P	SIPI	SIY	P	S(P)
0.5	0	1	0	0	nes 0	.000	.000	1.000	.600	.400	.000	.400	.088	1.000	.000	.000	1.000	.000
	-	-	-	-	-	±000	±.000	±.000	±000	±.000	±.000	±.000	±000	±.000	±.000	±000	±.000	±000
0.5	0	1	0	0.1	0	.060	.000	1.000	.600	.400	.028	.372	.108	1.000	.000	.060	1.000	.000
0.5	0	1	0.1	0	0	.070	.000	1.000	.600	.400	.024	.376	.110	1.000	.000	.069	1.000	.000
						±.013	±.000	±.000	±000	±.000	±.002	±.002	±011	±.000	±.000	±.016	±.000	±.000
0.5	0	1	0.1	0.1	0	.096	.000	1.000	.600	.400	.037	.363	.128	1,000	.000	.096	1.000	.000
0.5	0	2	0	0	0	.001	.000	1.000	.600	.400	.000	.400	.098	1.000	.000	.000	1.000	.000
		_				±.000	±000	±000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000
0.5	0	2	0	0.1	0	.054	.000.	1.000	.600 4 000	.400	.041	.359	.112	1.000	.000.	.054	1.000	.000 000 +
0.5	0	2	0.1	0	0	.059	.000	1.000	.600	.400	.027	373	.116	1.000	.000	.058	1.000	.000
		•	• •			1.007	±.000	±000	±.000	±.000	±003	±.003	±013	±.000	±000	±.008	±000	±.000
0.5	U	2	0.1	0.1	0	±.007	.000 + mn	1.000 ±.000	.600 ±000	.400 ±.000	.048 ±.005	±.005	$\pm .020$	±.000	±000	±012	1.000	±.000
1	0	i	0	0	0	.000	.000	1.000	.F50	.400	.000	.400	.108	1.000	.000	.000	1.000	
Ι.	0		0			±000	±.000	±.000	£.000	±.000	±000	±.000	±000	±.000	±000	±.000	±.000	±.000
1 1	U	1	U	0.1	0	+010	.000 +.000	+.000	.600 ±.000	400 +.000	+ 0024	+.002	+.011	±.000	±.000	$\pm 013$	±.000	.000 ±.000
1	0	1	0.1	0	0	.073	.000	1.000	.600	.400	.025	.375	.132	1.000	.000	.074	1.000	.000
.	0	1	0.1	0.1		±010	±.000	±000	±.000	±000	±.001	±.001	±.012	±000	±.000	± 010	±000	±.000
	U	1	0.1	0.1	U	±017	.000 ±.000	±000	.000 ±000	.400 ±.000	±003	±003	±016	±000	±.000	±024	±.000	±.000
1	0	2	0	0	0	.000	.000	1.000	.600	.400	.000	.400	.108	1.000	.000	.000	1.000	.000
.	0	2	0	0.1		±.000	±.000	±.000	±.000	±.000	±.000	±000	±.000	±.000	±.000	±.000	±.000	±.000
· ·	U	2	U	0.1	Ű	±010	±.000	±.000	±000	±.000	±.0027	±.002	±010	±.000	±.000	±012	±.000	±.000
1	0	2	0.1	0	0	.060	.000	1.000	.600	.400	.028	.372	.123	1.000	.000	.059	1.000	.000
,	n	2	01	01	6	±010	±009	±000	±.000	±.000	±.003	±.003	±011	±.000	±.000	$\pm 011$	±.000	±.000
· ·	v	2	0.1	0.1		±.013	±000	±000	±.000	±.000	±.005	±.005	±.019	±000	±.000	±011	±.000	±.000
1	0.5	1	0	0	0	.000	.000	1.000	.600	.400	.000	.400	.094	1.000	.000	.000	1.000	.000
Ι,	05	1	n	01	0	±.000	±000	±.000	±.000	±.000	±.000	±.000	±000	±.000	±.000	±.000	±.000	±000
·	0.5	•	Ū	0.1	Ŭ	±010	±.000	±000	±.000	±000	±001	±.001	±011	±.000	±.000	±.014	±.000	±.000
1	0.5	1	0.1	0	0	.070	.000	1.000	.600	.400	.024	.376	.115	1.000	.000	.072	1.000	.000
1	0.5	1	0.1	0.1	0	±012	±.000	±000	±.000	±.000	±.002	±.002	±.014	±000	±000	±014	±.000	£.000
· ·	•	•		••••		±.013	±000	±.000	±.000	±000	±.002	±.002	±020	±.000	±.000	±013	±.000	±.000
1	0.5	2	0	0	0	.000	.000	1.000	.600	.400	.000	.400	.088	1.000	.000	.000	1.000	.000
1	0.5	2	0	0.1	0	.059	.000	1.000	.600	.400	.027	.373	.106	1.000	.000	.060	1.000	.000
		_				±.007	±.000	±.000	±.000	±000	±.002	±.002	±012	±.000	±.000	±010	±000	±.000
1	0.5	2	0.1	0	0	.060	.000	1.000	.600	.400	.028	.372	.101	1.000	.000	.059	1,000	.000
1	0.5	2	0.1	0.1	0	.082	.000	1.000	.600	.400	.039	.361	.123	1.000	.000	.083	1.000	.000
		-				±.011	±.000	±.000	±.000	±.000	±.004	±.004	±.017	±.000	±.000	±.014	±000	±.000
1	1	1	0	0	U	.000	.000	1.000	.600	.400	.000	.400	.108	1.000	.000	000.	1.000	+ 000
1	1	1	0	0.1	0	.068	.000	1.000	.600	.400	.024	.376	.132	1.000	.000	.068	1.000	.000
			0.1	~		±012	±000	±000	±.000	±.000	±.002	±002	±016	±.000	±.000	±011	±.000	±.000
1	I	1	0.1	0	U U	$\pm .071$	±.000	$\pm .000$	.600 ±.000	.400 ±.000	±.002	.377 ±.002	±.017	+.000	.000 ±.000	±.016	±.000	±.000
:	1	1	0.1	0.1	0	.101	.000	1.000	.600	.400	.035	.365	.150	1.000	.000	.105	1.000	.000
.	1	2	0	•		±.015	±.000	±000	±.000	±000	±.003	±.003	±021	±.000	±.000	±.020	±.000	±.000
i *	1	2	U	U	0	.000 ±000	.000 ±.000	±.000	.000 ±000	.400 ±.000	±.000	±000	±.000	±.000	±.000	±.000	±.000	±.000
1	1	2	0	0.1	0	.055	.000	1.000	.600	.400	.028	.372	.104	1.000	.000	.053	1.000	.000
,	1	2	0.1	0	_ ۱	±010	±.000	±.000	±.000	±.000	±.003	±.003	±013	±.000	±.000	±.012	±.000	±.000
'	1	2	0.1	0		±.008	±.000	±.000	±000	±.000	±.002	±.002	±015	±.000	±.000	±010	±.000	±.000
1	1	2	0.1	0.1	0	.081	.000	1.000	.600	.400	.040	.360	.121	1.000	.000	.081	1.000	.000
1	٥	1	n	n	<u>م</u>	±.010	±.000	±000	±.000	000 ±.000	±.003	±.003	±018	±.000	±.000	±.011	±.000	±.000
1	U		U	U		±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000
1	0	1	0.05	0	0	.037	.000	1.000	.600	.400	.012	.388	.116	1.000	.000	.038	1.000	.000
1	n	1	01	n	0	±.005	±.000	±.000 1.000	±.000 .600	±.000	±.001	±.001	±.005	±.000 1.000	±.000	±.007	±.000 1.000	±.000
1	v	•	J.1	J		±.011	±.000	±000	±.000	±.000	±.001	±.001	±.014	±.000	±.000	±.013	±.000	±.000
1	0	1	0.01	0	0	.007	.000	1.000	.600	400	.002	.398	.109	1.000	.000	.008	1.000	.000
						±.001	±.000	±.000	±.000	±.000	±.000	±.000	±.001	±.000	±.000	<u>±.001</u>	±.000	±.000

σy	Est	Cras	S(Y)	S{P;	Rev.	P.C.	G.P.	In.C.	Prof.	S(Y)	Р	S(P)	S(Y)	Р	S(P)
		hes	1>10	10	1>10	10	t>10	t>10	1010	t≤20	<b>⊾</b> 20	<b>i</b> ⊴20	1>20	ı⊳20	t>20
0.01	###	0	.007	.000	1.000	.600	.400	.002	398	.335	1.000	.000	.007	1.000	.000
			±001	±.000	±.000	±.000	±000	±000	±.000	±.001	±.000	±.000	±001	±000	.±.000
0.05	***	0	.035	.000	1.000	.600	.400	.012	.388	.337	1.000	.000	.034	1.000	.000
			±.006	±.000	±.000	±.000	±.000	±001	±001	±006	±.000	±000	±.007	±000	±.000
0.1	***	0	.071	.000	1.000	.600	.400	.023	.377	.344	1.000	.000	.075	1.000	.000
			±.008	±.000	±001	±000	±000	±002	±.002	±013	±.000	±.000	±012	±.000	±.000
0.01	###	0	.007	.000	1.000	.600	.400	.002	.398	.495	1.000	.000	.206	1.000	.000
			±001	±.000	±000	±.000	±.000	±000	±.000	±001	±000	±.000	±.001	±.000	±.000
0.05	***	0	.035	.000	1.000	.600	.400	.012	.388	.497	1.000	.000	.035	1.000	.000
			±005	±.000	±.000	±.000	1.000 I.	±.001	±001	±009	±.000	±.000	±.006	±.000	±.000
0.1	###	0	.071	.000	1.000	.600	.400	.024	.376	.499	1.000	.000	.072	1.000	.000
Ι.			±010	±000	±.000	±.000	±.000	±.002	±.002	±.021	±.000	±.000	±012	±.000	±.000

Fixed-price complex condition optimal model

T	β	θ	S _c	σν	a1	aŋ	σ	Crash	SIY	S(P)	Rev.	P.C.	G.P.	In.C.	Prof.	SIYI	P	S(P)	SIYI	- P-	SIPI
				,	•	-			1010	t>10	t>10	10	t>10	10	t>10	t≤20	t≤20	t≤20	t>20	t>20	t>20
1	0	0.5	3	0	0.5	0	0	0	1.838	.000	1.194	.717	.478	.962	485	1.051	1.000	.000	2.053	1.000	.000
									±.000	±.000	±.000	±000	±000	±.000	±.000	±.000	±.000	±.000	±.000	±.000	±.000
1	0.5	0.5	3	0.05	0.5	0	0	0	.169	.000	.980	.588	.392	.095	.297	.284	1.000	.000	.141	1.000	.000
			_						±006	±.000	±001	±.000	±.000	±.003	±003	±.005	±.000	±.000	±.007	±000	±.000
1	1	0.5	3	0.1	0.5	0	0	0	.073	.000	1.002	.601	.401	.033	.368	.130	1.000	.000	.071	1.000	.000
									±011	±.000	±.001	±000	±000	±.002	±.003	±017	±.000	±.000	±014	±.000	±.000
1	1	1	3	0	0.5	0	0	0	.101	.000	1.008	.605	.403	.069	.334	.202	1.000	.000	.073	1.000	.000
			•				-		±000	±.000	±.000	±000	±000	Ŧ000	±.000	±000	±.000	±000	±.000	±000	±000
	1	1	3	9.05	0.5	0	0	0	.107	.000	1.008	.605	.403	.070	.333	.205	1.000	.000	.081	1.000	.000
Ι.			•		~ ~	~			±.004	±.000	±.000	±.000	±.000	±.002	±.002	±005	±.000	±000	±.005	±.000	±000
1	1	1	3	0.1	0.5	U	0	0	.117	.000	1.008	.605	.403	.0/3	.330	.213	1.000	.000	.097	1.000	.000
Ι.	,		2	•	05	•	0.05		1.00/	±.000	±.001	±001	±000	±003	±.003	±.006	1.000	±.000	1.008	1.000	±.000
1	1	1	3	U	0.5	U	0.05	U	1.157	.000	1.009	.605	.404	.090	- 214 - 117	.222	1.000	.000	.142	1.000	.000
.	1	1	2	0	<u>م د</u>	•	0.1		1022	±000	1.010	±003	±.002	122	I.UIZ	1025	1.000	±.000	1.023	1 000	1000
<b>1</b>			5	v	0.5	U	0.1	U	+014	+ 000	1.010	+ 006	+ 004	+ 010	+ 017	+ 043	+ 000	+ 000	+ 170	+ 000	+ 000
1	1	1	3	0.1	04	0	01	0	247	1000	1 012	607	405	144	261	280	1 000	-000	226	1.000	-000
•	•	•	5	0.1	0.4	v	0.1	Ū	+033	+ 000	+007	+ 004	+ 003	+ 020	+ 00	+ 0.0	+ 000	+ 000	+041	+ 000	+ 000
1	1	0	3	0	05	0	٥	0	006	-000	1 007	601	401	-010	306	153	1000	2000	001	1 000	0
1.	•	•		•	0.0	v	Ů	Ŭ	+.000	+ 000	+ 000	+.000	+ (a)()	+ 000	+.000	+.000	±.000	±.000	1:000	±.000	+ 000
1	1	0	3	0.05	٥5	0	0	0	.036	.000	1.002	.601	401	.014	387	.158	1.000	.000	.033	1.000	.000
	-	-	-			-	-		±.005	±.000	±000	±.000	±.000	±.001	±.001	±.006	±.000	±.000	±.006	±.000	±.000
1	1	0	3	0.1	0.5	0	0	0	.069	.000	1.002	.601	.401	.025	.375	.163	1.000	.000	.067	1.000	.000
									±.014	±.000	±.001	±.000	±.000	±001	±.001	±.013	±.000	±.000	±016	±.000	±.000
1	1	0	3	0.05	1	0	0	0	.034	.000	1.001	.600	.400	.013	.388	.160	1.000	.000	.034	1.000	.000
									±.006	±.000	±000	±.000	±.000	±.001	±.001	±.006	±.000	±.000	±.008	±.000	±.000
1	1	0	3	0.05	1	1	0	0	.034	.000	1.000	.600	.400	.012	.388	.161	1.000	.000	.034	1.000	.000
							1		±.006	±.000	±.000	±000	±000	±.001	±001	±.005	±.000	±.000	±.007	±.000	±.000

### Fixed-price condition, behavioral model

σ,	N.	M	Est	Crash	SIY	S(P)	Rev.	P.C.	G.P.	In.C.	Prof.	S(Y)	Р	S(P)	SIY	P	SIP
, ,					1>10	10	t>10	10	t>10	t>10	10	t≤20	⊾20	t≤20	D20	t>20	t>20
0	10	No	No	0	.000	.000	1.000	.600	.400	.000	.400	.005	1.000	.007	.005	1.000	.006
					±000	±000	±000	±.000	±.001	±.000	±001	±.001	±.002	±.001	±.001	±.002	±001
0	10	No	Yes	0	.006	.008	1.000	.599	.401	.000	.401	.119	1.130	.256	.005	1.000	006
1					±001	±.001	±.000	±.001	±.001	±.000	±.001	±.001	±.003	±.004	±001	±.001	±.001
0	10	Yes	No	0	.005	.017	1.142	.298	.844	.000	.844	.005	2.300	.018	.005	2.301	.017
					±001	±002	±000	±.000	±.000	±000	±.000	±.001	±004	±.003	±.001	±003	±.002
0	10	Yes	Yes	0	.005	.017	1.142	.298	.844	.000	.844	.062	2.212	.214	.005	2.300	.016
					±001	±002	±.000	±000	±.000	±.000	±.000	±.001	±.004	±004	±001	±.003	±003
0.1	10	No	No	0	.024	.033	1.001	.599	.401	.000	.401	.025	1.002	.034	.024	1.002	.032
					±.003	±.005	±.002	±.003	±004	±.000	±.004	±.004	±007	±.006	±.004	±.006	±006
0.1	10	No	Yes	0	.025	.034	1.001	.599	.402	.000	.402	.121	1.127	.258	.026	1.002	.035
1					±.002	±.003	±.002	±.003	±.004	±.000	±.004	±.007	±014	±.023	±003	±.007	±.005
0.1	10	Yes	No	0	.025	.085	1.139	.298	.841	.000	.841	.025	2.299	.085	.024	2.296	.083
					±003	±.011	±.003	±.002	±001	±.000	±001	±004	±.019	±.015	±.004	±.018	±015
0.1	10	Yes	Yes	0	.025	.084	1.139	.298	.841	.000	.841	.065	2.211	.223	.025	2.298	.085
					±.003	±.009	±.002	±002	±.000	±.000	±.000	±005	±.023	±018	±.003	±014	±012
0.1	10	No	No	0	.052	.071	1.000	.602	.397	.000	.397	.049	1.000	.056	.052	1.000	.070
					±.008	±.010	±.004	±007	±011	±.000	±011	±013	±.017	±019	±.009	±.018	±012
0.1	10	No	Yes	0	.047	.065	1.002	.599	.402	.000	.402	.124	1.134	.262	.047	1.004	.064
					±.007	±010	±.003	±.005	±007	±.000	±007	±010	±.028	±.030	±.008	±.011	±012
6.1	10	Yes	No	0	.052	.175	1.131	.298	.832	000	.832	.05.)	2.306	.178	.051	2.290	.171
					±.007	±.022	±007	±.006	± 902	±.000	±.002	±.007	±.039	±.022	±.009	±.041	±.029
0.1	10	Yes	Yes	0	.051	.170	1.133	.300	.833	.000	.833	.080	2.195	.268	.050	2.283	.158
1					±.005	±017	±005	±.005	±.002	±.000	±.002	±011	±035	±.035	±.006	±.045	±.020
1	1	0	0	0	.034	.000	1.001	.600	.400	.013	.388	.160	1.000	.000	.034	1.000	.000
1				(	±.006	±000	±.000	±.000	±000	±001	±.001	±.006	±000	±.000	±.008	±.000	±.000
1	1	1	0	0	.034	.000	1.000	.600	.400	.012	.388	.161	1.000	.000	.034	1.000	.000
1					±.006	±.000	1 ±.000	±.000	±.000	±.001	$\pm 001$	$\pm .005$	±.000	±.000	±.007	±.000	$\pm 000$

Clearing-price simple condition, optimal model

### Clearing-price simple condition, behavioral model

al	a2	аЗ	a0	Disc	Ъ	σy	Crash	SIYI	SIP	Rev.	P.C.	G.P.	In.C.	Prof.	SIYI	P	S(P)	S(Y)	Р	SIPI
0.25	0		1	rete		0.01		t>10	- 10	t>10	<u>- 610</u>	t>10	600	400	1520	1.030	<u>t≤20</u>	606	1>20	t>20
0.2.0	v	Ū	•	140	•	0.01	Ň	±004	±001	±001	±.002	±.002	±.000	±.002	±.004	±.013	±.006	±001	±004	±002
0.25	0	0	1	No	1	0.05	0	.417	.047	.999	.602	.398	.000	.398	.047	1.031	.067	.030	.999	.040
0.75	0	•		NT-		0.1		±017	±.007	±.007	±.013	±.020	±.000	±020	±012	±.032	±.018	±.007	±.035	±.009
0.25	U	0	1	NO	1	0.1	0	- 390	.093 + 022	+ 017	.010.	.3/8 + 049	+ 000	.378 + 049	+020	+ 071	+ 022	.070	+ 077	+ 025
0.5	0	0	1	No	1	0.01	0	.397	.008	1.000	.601	.399	.000	.399	.050	.970	.056	.006	.999	.008
								±005	±001	±001	±.001	±002	±000	±.002	±017	±011	±.015	±.001	±004	±.002
0.5	0	0	1	No	1	0.05	0	.390	.040	.999	.602	.397	000.	.397	.077	.963	.078	.030	.996 ± 018	.039
0.5	0	0	1	No	1	0.1	0	.380	.083	.998	1.006	.392	.000	.392	.094	.941	.107	.061	.995	.079
		-	-		-			±018	±015	±007	±013	±.020	±.000	±020	±.031	±038	±.033	±.016	±.029	±.018
1	0	0	1	No	1	0.01	0	.365	.007	1.000	.600	.400	.000	.400	.291	.930	.177	.005	1.000	.007
1,	0	0	1	No	1	0.05	0	±024 366	±.001	±.000	±.001	±.001 308	±000	±001	281	£.025 931	±.038	£.001	£.002	±.001
· ·	Ū	Ū	•		•	0.00	Ĭ	±018	±.005	±.002	±.004	±.006	±.000	±006	±.082	±.023	±.033	±.004	±011	±.00%
1	0	0	1	No	1	0.1	0	.357	.074	.997	.608	.388	.000	.388	.299	.932	.194	.058	.981	.074
2	٥	0	1	No	1	0.01	ا ا	±021	±011	±005	±009	±014	±000	±.014	±0/9	±.025 017	±033	±011	±.023	±013
1 -	Ŭ	Ũ	•	110	•	0.01	Ĭ	±.073	±.005	±.000	±.000	±.001	±000	±001	±522	±.024	±.030	±.003	±.002	±.003
2	0	0	1	No	1	0.05	0	.270	.053	1.000	.601	.398	.000	.398	1.317	.918	.277	.036	1.000	.047
	0	0	,	No	1	0.1		±066	±019	±.001	±003	±.004	±.000	±004	±496	±021	±.028	±.009	±.006	±.012
<b>1</b>	U	U	1	110	1	0.1	Ň	+.029	+.047	±.010	+.027	+.037	±.000	±.037	±.055	±014	±.023	± 194	±.026	±.057
0.25	0	0	1	Yes	1	0.01	0	.396	.189	.997	.615	.382	.000	.382	.149	1.012	.197	.146	1.001	.189
0.05	•	•				0.05		±021	±011	±.008	±.015	±.023	±.000	±.023	±011	±.040	±013	±006	±033	±.010
0.25	0	U	1	Yes	1	0.05	0	.398	.186 + 011	+ 1104	.615 800 +	.382	000.	.382	+011	+ 031	.166	.142	+ 023	+ 016
0.25	0	0	1	Yes	1	0.1	0	.401	.1%	1.000	.611	.388	.000	.388	.145	1.014	.194	.146	1.013	.196
	-							±.014	±016	±.005	±.008	±013	±.000	±.013	±.013	±032	±.015	±.014	±.036	±.024
0.5	0	0	1	Yes	1	0.01	0	.360	.375	.992	.654	.338	.000	.338	.302	1.038	.388	.305	1.017	.376
0.5	0	0	1	Yes	1	0.05	0	.361	.370	.993	.651	.342	.000	.342	.287	1.043	.376	.302	1.006	.370
	-	-	-		-			±.032	±.034	±013	±.024	±037	±000	±037	±.026	±.079	±030	±.022	±073	±046
0.5	0	0	1	Yes	1	0.1	0	.360	.378	.992	.653	.340	.000	.340	.300	1.031	.396	.293	1.018	.376
1,	0	0	1	Ves	1	0.01	6	±039	±033	±015	±030	±.044	±.000	±044	±030	±.065	±.025 742	±.026	±063	±032
^	Ū	v	•	163	•	0.01	Ĭ	±.077	±.070	±.035	±061	±.093	±000	±093	±097	±111	±064	±.081	±.140	±072
1	0	0	1	Yes	1	0.05	0	.161	.732	.919	.783	.135	.000	.135	.716	1.103	.761	.700	1.054	.720
Ι,	0	0	1	Væ	1	0.1		±106	±068	±051	±.081	±129	±.000	±129	±082	±.140	±067	±095	±145	±086
1	U	U		163		0.1		±.062	±.082	±033	±.054	±.080	±000	±080	±061	±.096	±049	±110	±151	±113
2	0	0	1	Yes	1	0.01	0	526	1.092	.488	.973	486	.000	486	2.245	1.481	1.275	1.745	2.127	.865
								±.249	±.347	±.269	±.586	±355	±000	±.355	±435	±.602	±.209	±1.23	±1.29	±.591
2	0	0	1	Yes	1	0.05	6	- 618	1 042	430	1 041	- 611	000	- 611	2 401	1 403	1 253	1.785	2 261	910
1	Ū	Ũ	•	10	•	0.00	Ŭ	±.348	±516	±254	±.682	±.452	±.000	±452	±456	±.659	±238	±1.34	±1.29	±.588
	_			• •														9	4	
2	0	Ð	1	Yes	1	0.1	0	679	1.169	.619	1.280	661	.000	661	2.288	1.095	1.113	2.035	1.442	1.084
0	0.1	0	1	No	1	0.01	o	.833	.012	1.142	298	.844	.000	.844	.067	2.199	.224	.003	2.300	.011
								±.000	±003	±.001	±.001	±.000	±000	±.000	±.002	±.005	±.005	±.001	±.007	±.003
0	0.1	0	1	No	1	0.05	0	.832	.059	1.140	.298	.843	.000	.843	.070	2.200	.233	.016	2.304	.055
0	0.1	0	1	No	1	0.1	0	£.001 829	±012	1.143	304	£.001 839	2000	±.001	070	2.172	233	1)32	2.267	109
		-	-	•••	-	••••		±.003	±026	±.007	±.008	±002	±.000	±.002	±011	±.063	±034	±.008	±.055	±.029
0	0.25	0	1	No	1	0.01	0	.830	.011	1.142	.298	.844	.000	.844	.096	2.224	.289	.003	2.301	.010
0	0.25	0	1	No	1	0.05	0	£.000 £30	±.002	±.000	±.000	±.000 843	±.000	±.000 843	±.001	±.003	±.003 290	11.001	±.002	±.002
ľ	0.2.0	Ū	•	140	•	0.00	Ů	±.001	±.010	±.002	±.002	±.000	±.000	±.000	±.007	±.013	±.018	±.003	±.014	±.011
0	0.25	0	1	No	1	0.1	0	.826	.105	1.140	.299	.840	.000	.840	.102	2.229	.310	.031	2.287	.106
	05	0	1	No	1	0.01		±.003	±014	±.004	±.004	±.001	±.000	±.001	±.013	±.031	±.033	±.005	±.026	±.017
	0.5	U	1	110	ı	0.01		.015 ±001	±006	±001	±.001	.041 ±.000	.000 ±000	.041 ±.000	±.002	±.005	.440 ±.005	±.002	±.004	±.006
0	0.5	0	1	No	1	0.05	0	.813	.132	1.136	.297	.839	.000	.839	.174	2.211	.446	.030	2.303	.102
<u>م</u> ا	05	•		<b>N</b> 7		<b>^</b> •		±.003	±032	±.003	±.002	±.002	±.000	±.002	±.008	±.006	±019	±.010	±.013	±.035
	0.5	U	1	NO	1	0.1	0	.809	.183 ±.035	1.132	.298	.834	000,	.834 ±.004	.178	2.206	.459 ±.031	.048 ±.013	2.303 ±.016	.164 ±.044
0	1	0	1	No	1	0.01	0	.547	1.006	.924	.358	.566	.000	.566	.478	2.070	1.048	.388	2.093	1.021
	-	~				0.05		±.001	±.002	±.001	±.001	±.001	±000	±.001	±.002	±.001	±001	±.002	±.002	±.002
0	1	U	1	NO	1	0.05	0	.548 + 003	1.005	.925	.359	.567	.000	.567	478	2.067	1.047	385 000 +	2.092	+ 0001
0	1	0	1	No	1	0.1	o	.549	.9%	.927	.357	.570	.000	.570	.490	2.073	1.042	.388	2.106	1.008
								±.007	±015	±010	±010	±.007	±.000	±007	±018	±.063	±.019	±.016	±.041	±017

^	0.1	^		V	•	0.01	- ni	202	111	1 174	422	201	~~~	701	027	1 4 04	1121	027	1 402	1121
U	0.1	U	1	Ies	1	0.01	U	+ 018	+004	4.0:0	+ 012	+072	+ 000	+ 002	+ 001	+ 036	+003	+ 001	+ 068	+ 005
^	0.1	0	1	V~	1	0.06	0	£010	142	1 119	478	400	1.000	400	CA7	1 620	130	048	1 580	134
0	0.1	U	1	ies		0.00	v	.020	1.338	1.110	+ 042	1070	1000	+ 071	+ 009	+ 174	+ 022	+ 011	+ 224	100
^	0.1	0	1	Va	1	0.1		2.007	2020	1.000	140	427	1000	677	1.000	1 575	185	071	1 546	1601
U	0.1	U	L	ies	1	0.1		.045	+ 100	+ 099	+ 004	+ 114	+ 000	+ 114	+ 010	+ 187	+ 143	+ 018	+ 548	+ 054
0	0.25	0	1	Va	1	0.01	0	£.007	250	1 100	455	644		644	008	1 460	249	007	1 485	253
U	0.25	U	1	Tes		0.01		.040	+ 005	+ 005	+ 007	+ 012	+ 000	+ 012	+ 001	+ 000	+ 004	+ 001	+ 034	+ 006
^	0.95	0		V		0.00		112	2005	1.000	12007	1.012	1.000	2012	109	1 4 24	257	109	1.414	247
U	0.25	0	1	162	1	0.00	U	.013	+ 022	1.002	.4/9	.003	1000	100.	+ 000	1.420	+ 010	.100	1.410	104
^	0.75	•	1	V		0.1		1.U/4	1002	1.054	£.000	517	±000	£074	120	1.457	2019	149	1 226	2000
U	0.25	U	1	res	1	0.1	U		280	1.004			.000	.527	.130	1.457	.294	.140	1.520	100
~		•		~		0.01		±101	±.005	1001	1.151	1.2.52	±000	1232	1.028	1,200	±032	2009	1,9/9	±0/0
U	0.5	0	1	Yes	I	0.01	0	.531	.424	1.056		.520	.000	.525	.223	1.292	.927	1 005	1.000	.429
~						0.05		±015	±.012	£00/	±012	±019	1000	£019	1.003	1023	I.000	1.005	1.040	±013
0	0.5	0	1	Yes	1	0.05	0	.533	.438	1.056	.528	.529	.000	529	.228	1.306	.430	225	1.310	.43/
~		•						±049	±038	±021	1.008	£059	±.000	£.059	±012	1.090	£.032	£017	1.130	TUN
0	0.5	U	ı	Y es	1	0.1	U	.400	.404	1.006		.4/0	.000	.4/0	.241	1.310	.944	101	1.400	410
~		•		~		0.01		± 101	±142	±.150	1.105	1202	±.000	±_202	1043	1.077	1.0/1	± 101	1.007	I 102
U	I	0	1	Yes	1	0.01	U	.234	.6.32	.9/3	./50		.000	.210	.592	1.072	.043	+ 011	1.007	1010
~		•				0.00		±017	±014	1.00/	±013	£020	1.000	£.020	1.00/	1000	TOIL	LUII	1.025	TOIS
0	1	U	1	Yes	1	0.05	0	.245	.657	.9/3	./39	.233	.000	.233	.591	1.090	.000		1.101	.003
•		•						±.090	±0/2	±036	±0/5	±110	1.000	±110	12.035	1 105	1.033	1000	1 100	±003
U	1	0	1	Yes	1	0.1	U	.205	.669	.933	./56	.1//	.000	.1//	.601	1.105	.8//	.010	1.101	.0/1
•	~		~					±207	±128	±093	±1/2	±260	±000	±260	±080	±.200	1.098	£ 156	1.34/	2135
U	0	0.25	U	No	1	0.01	U		.091	.968	3./42	-	.000	2 774	,000	1.041	.000	1.00/	.943	100/
								1.904	£102	£107	II3.0	2.7/4	±000	412.0	TOIS	£.001	±024	103,4	X.100	£152
								±10.2			44	±13.9		±13.9				3'		
•	0	0.95	•	NT-				101	215	1 007	C 30	42	000	420	107	1 025	122	122	1 174	222
U	U	0.25	U	INO	1	0.1	0	.442	. 121	1.027		.439	.000	.439	1.097	1.023	1.152	+ 072	1.129	1 149
•	•	0.95	•	V	1	0.01		1.043	I 121	1.020	214	2001	1.000	700	2.040	1.071	£033	100	2.11/	275
U	U	0.25	0	ies	1	0.01	U	./4/	.337	1.099	- 014	./03	.000	./03	+ 022	+ 162	+ 039	109	174	1 055
^	0	0.95	^	<b>V</b>		<b>A</b> 1		I.024	±00/	1.010	1.023 519	2.010	1.000	£010	150	1 1 20	1.030	170	1 245	247
U	U	0.25	U	res	1	0.1	0	.510	.340	1.000	.328	+ 000	.000	1.000	.150	1.120	.242	.1/9	1.303	
^	0	0.5	~	No	1	0.01		1072	170	2.035	1005	1.000	±000	1.000	1 267	1.145	222	1000	1045	155
U	U	0.5	U	INO	1	0.01		***	.4/0	.095	***	-	.000		4.207	.771	.300	***	1.045	+ 247
									T.241	±1/5			£000		115.0	I 193	1.279		1732	124/
^	٥	05	٥	Mo	1	0.1	6		205	090	4 177		000		1 075	084	227	14 74	1 118	200
U	U	0.5	U	INO	1	0.1	U	2 226	- 144	.900	4.1//	2 107	.000	2 107	4.075	+ 070	+127	14.74	+ 224	+ 167
								2.230	1.104	<b>T</b> 132	19.24	3.131	£.000	3.197	±17.1	1.070	I.157	1120	1.0.4	±10/
								100.00			0	19.35		22.52	99			100.0		
^	•	05	•	Var	•	0.01	<u>ہ</u>	101	107	1 000	107	712	000	722	200	2 1 10	490	175	2 202	500
0	0	0.5	0	Yes	1	0.01	0	.696	.497	1.008	287	.722	.000	.722	.289	2.110	.689	.175	2.292	.500
0	0	0.5	0	Yes	1	0.01	0	.696 ±.036	.497 ±056	1.008 ±035	.287 ±.038	.722 ±034	.000 ±000	.722 ±.034	.289 ±069	2.110 ±219	.689 ±.090	.175 ±.022	2.292 ±216	.500 ±067
0 0	0 0	0.5 0.5	0 0	Yes Yes	1 1	0.01 0.1	0 0	.696 ±.036 .594	.497 ±056 .527	1.008 ±.035 1.042	287 ±.038 .434	.722 ±034 .607	.000. ±.000 .000.	.722 ±.034 .607	.289 ±069 .301	2.110 ±219 1.620	.689 ±090 .617	.175 ±.022 .301	2.292 ±216 1.597	.500 ±067 .478
0	0	0.5 0.5	0	Yes Yes	1	0.01	0	.696 ±.036 .594 ±.034	.497 ±.056 .527 ±.081	1.008 ±035 1.042 ±.027	.287 ±.038 .434 ±.031	.722 ±.034 .607 ±.038	.000 ±.000 .000 ±.000	.722 ±.034 .607 ±.038	.289 ±069 .301 ±039	2.110 ±.219 1.620 ±.200	.689 ±.090 .617 ±.114	.175 ±.022 .301 ±.037	2.292 ±216 1.597 ±144	.500 ±067 .478 ±089
0 0 0	0 0 0	0.5 0.5 1	0 0 0	Yes Yes No	1 1 1	0.01 0.1 0.01	0 0 0	.696 ±.036 .594 ±.034 ###	.497 ±056 .527 ±081 .429	1.008 ±035 1.042 ±.027 .760	.287 ±.038 .434 ±.031 ###	.722 ±034 .607 ±038 ###	.000 ±.000 000. ±.000 .000	.722 ±.034 .607 ±.038 ###	.289 ±069 .301 ±039 ###	2.110 $\pm .219$ 1.620 $\pm .200$ 1.077 $\pm .261$	.689 ±090 .617 ±.114 .701	.175 ±.022 .301 ±.037 ###	2.292 ±216 1.597 ±144 .879	.500 ±067 .478 ±089 .344
0 0 0	0 0 0	0.5 0.5 1	0 0 0	Yes Yes No	1 1 1	0.01 0.1 0.01	0	.696 ±036 .594 ±034 ###	.497 ±056 .527 ±081 .429 ±249	1.008 ±035 1.042 ±027 .760 ±330	287 ±.038 .434 ±.031 ###	.722 ±034 .607 ±038 ###	.000 ±000 .000 ±000 ±000	.722 ±034 .607 ±038 ###	.289 ±069 .301 ±039 ###	2.110 ±219 1.620 ±200 1.077 ±.261	.689 ±090 .617 ±114 .701 ±164	.175 ±.022 .301 ±.037 ###	2.292 ±216 1.597 ±144 .879 ±426	.500 ±067 .478 ±089 .344 ±273
0 0 0	0 0 0 0	0.5 0.5 1 1	0 0 0 0	Yes Yes No No	1 1 1 1	0.01 0.1 0.01 0.1	0 0 0	.696 ±036 .594 ±034 ###	.497 ±.056 .527 ±.081 .429 ±.249 .510	1.008 ±035 1.042 ±027 .760 ±330 .724	.287 ±.038 .434 ±.031 ###	.722 ±034 .607 ±038 ###	.000 ±000 ±000 ±000 ±000 .000	.722 ±034 .607 ±038 ###	.289 ±069 .301 ±039 ###	$2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 207 $	.689 ±090 .617 ±114 .701 ±164 .627	.175 ±022 .301 ±037 ###	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425	.500 ±067 .478 ±089 .344 ±273 .372 ±249
0 0 0 0	0 0 0 0	0.5 0.5 1 1	0 0 0 0	Yes Yes No No	1 1 1 1	0.01 0.1 0.01 0.1	0	.696 ±036 .594 ±034 ###	.497 ±056 .527 ±081 .429 ±249 .510 ±169	$1.008 \pm 0.035 \\ 1.042 \pm 0.027 \\ .760 \pm .330 \\ .724 \pm .292 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .920 \\ .92$	.287 ±.038 .434 ±.031 ### ###	.722 ±034 .607 ±038 ### ###	.000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### ###	.289 ±069 .301 ±039 ### ###	$\begin{array}{c} 2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 307 \\ 1.774 \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145	.175 ±022 .301 ±037 ### ###	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863	.500 ±067 .478 ±089 .344 ±273 .372 ±249 832
0 0 0 0	0 0 0 0	0.5 0.5 1 1 1	0 0 0 0	Yes Yes No No Yes	1 1 1 1 1	0.01 0.1 0.01 0.1 0.01	0 0 0 0	.696 ±036 .594 ±034 ### ###	.497 ±056 .527 ±081 .429 ±249 .510 ±169 .823	$1.008 \pm 0.035 \\ 1.042 \pm 0.027 \\ .760 \\ \pm .030 \\ .724 \\ \pm .029 \\ .939 \\ \pm .040 \\ .940 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900 \\ .900$	287 ±.038 .434 ±.031 ### ###	.722 ±034 .607 ±038 ### ###	.000 ±.000 ±.000 .000 ±.000 .000 ±.000 .000	.722 ±034 .607 ±038 ### ###	.289 ±069 .301 ±039 ### ###	$\begin{array}{c} 2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 307 \\ 1.774 \\ \pm 207 \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880	.175 ±022 .301 ±037 ### ###	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863 ±214	500 ±067 .478 ±089 .344 ±273 .372 ±249 .832
0 0 0 0	0 0 0 0	0.5 0.5 1 1 1	0 0 0 0	Yes Yes No No Yes	1 1 1 1	0.01 0.1 0.01 0.1 0.01	0 0 0 0	.696 ±.036 .594 ±.034 ### ### .484 ±.037	.497 $\pm 056$ 527 $\pm 081$ .429 $\pm 249$ 510 $\pm 169$ .823 $\pm 046$ 702	$1.008 \pm 0.035 \\ \pm 0.035 \\ \pm 0.027 \\ .760 \\ \pm .330 \\ .724 \\ \pm .292 \\ .939 \\ \pm .049 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ $	287 ±.038 .434 ±.031 ### ### .439 ±.080	.722 ±034 .607 ±038 ### .499 ±039	.000 ±000 ±000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### ### .499 ±039	.289 ±069 .301 ±039 ### ### .580 ±057	$\begin{array}{c} 2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 307 \\ 1.774 \\ \pm 207 \\ 1.854 \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880 ±057	.175 ±022 .301 ±037 ### ### 517 ±087 520	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863 ±214	500 $\pm 067$ .478 $\pm 089$ .344 $\pm 273$ .372 $\pm 249$ .832 $\pm 046$ 651
0 0 0 0 0	0 0 0 0 0	0.5 0.5 1 1 1 1	0 0 0 0 0	Yes Yes No No Yes Yes	1 1 1 1 1	0.01 0.1 0.01 0.1 0.01 0.1	0 0 0 0	.696 ±036 .594 ±034 ### .484 ±037 .444	.497 ±056 527 ±081 .429 ±169 ±169 .823 ±046 .703	$1.008 \pm 0.035 \\ \pm 0.035 \\ 1.042 \\ \pm 0.027 \\ .760 \\ \pm .330 \\ .724 \\ \pm .292 \\ .939 \\ \pm .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\ + .049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\049 \\ .883 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 \\040 $	287 ±.038 .434 ±.031 ### .439 ±.080 .440	.722 ±034 .607 ±038 ### .499 ±039 .443	.000 ±000 ±000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### .4039 ±039 ±039 .443	.289 ±069 .301 ±039 ### .580 ±057 .553	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880 ±057 .824	.175 ±022 .301 ±037 ### \$17 ±087 579 ±123	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863 ±214 1.611 +288	500 $\pm 0.67$ 4.78 $\pm 0.89$ .344 $\pm 2.73$ .372 $\pm 2.49$ .832 $\pm 0.46$ .651 $\pm 122$
0 0 0 0 0	0 0 0 0 0	0.5 0.5 1 1 1 1	0 0 0 0 0	Yes Yes No No Yes Yes	1 1 1 1 1 1	0.01 0.1 0.01 0.1 0.01 0.1	0 0 0 0 0	.696 ±036 .594 ±034 ### ### .484 ±037 .444 ±037	.497 ±056 527 ±081 .429 ±169 ±169 .823 ±046 .703 ±112	$1.008 \pm 0.035 \\ \pm 0.035 \\ 1.042 \\ \pm 0.027 \\ .760 \\ \pm .330 \\ .724 \\ \pm .292 \\ .939 \\ \pm .049 \\ .883 \\ \pm .042 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602 \\ .602$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092	.722 ±034 .607 ±038 ### .499 ±039 .443 ±032	.000 ±000 ±000 ±000 ±000 ±000 ±000 ±000	.722 ±.034 .607 ±.038 ### .499 ±.039 .443 ±.072	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091	$\begin{array}{c} 2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 307 \\ 1.774 \\ \pm 207 \\ 1.854 \\ \pm 290 \\ 1.554 \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880 ±057 .824 ±104 (200	.175 ±022 .301 ±037 ### 517 ±087 .579 ±123	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863 ±214 1.611 ±288	500 ±067 .478 ±089 .344 ±273 .372 ±249 .832 ±046 .651 ±122 287
0 0 0 0 0	0 0 0 0 0 0	0.5 0.5 1 1 1 1 0.1	0 0 0 0 0 0	Yes Yes No No Yes Yes No	1 1 1 1 1 1 0	0.01 0.1 0.01 0.1 0.01 0.1	0 0 0 0 0	.696 ±.036 .594 ±.034 ### .484 ±.037 .444 ±.060 ###	497 ±056 527 ±081 429 ±109 ±169 823 ±046 .703 ±112 540 ±120	$1.008 \pm 0.035 \\ \pm 0.035 \\ 1.042 \\ \pm 0.027 \\ .760 \\ \pm .330 \\ .724 \\ \pm .292 \\ .939 \\ \pm .049 \\ .883 \\ \pm .042 \\ .692 \\ + .296 \\ .692 \\ + .296 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ .692 \\ $	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ###	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ###	$\begin{array}{c} .000\\ \pm .000\\ .000\\ .000\\ \pm .000\\ .000\end{array}$	.722 ±.034 .607 ±.038 ### .499 ±.039 .443 ±.072 ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ###	$\begin{array}{c} 2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 307 \\ 1.774 \\ \pm 207 \\ 1.854 \\ \pm 290 \\ 1.554 \\ \pm 597 \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880 ±057 .824 ±104 .639 +291	.175 ±022 .301 ±037 ### 517 ±087 .579 ±123 ###	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863 ±214 1.611 ±288 .873 +758	500 $\pm .067$ .478 $\pm .089$ .344 $\pm .273$ .372 $\pm .249$ .832 $\pm .046$ .651 $\pm .122$ .387 + .316
0 0 0 0 0 0	0 0 0 0 0 0	0.5 0.5 1 1 1 0.1	0 0 0 0 0 0	Yes Yes No No Yes Yes No	1 1 1 1 1 1 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01	0 0 0 0 0	.696 ±036 .594 ±034 ### .484 ±037 .444 ±060 ###	.497 ±056 527 ±081 .429 ±169 ±169 .823 ±046 .703 ±112 .540 ±272 380	$1.008 \pm 0.035 \\ \pm 0.035 \\ 1.042 \\ \pm 0.027 \\ .760 \\ \pm 3.30 \\ .724 \\ \pm 2.92 \\ .939 \\ \pm 0.49 \\ .883 \\ \pm 0.42 \\ .692 \\ \pm .396 \\ 1.027 \\ \end{array}$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### 704	.722 ±034 .607 ±038 ### .499 ±039 .443 ±.072 ###	$\begin{array}{c} .000\\ \pm .000\\ .000\end{array}$	.722 ±.034 .607 ±.038 ### .499 ±.039 .443 ±.072 ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ###	$\begin{array}{c} 2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 307 \\ 1.774 \\ \pm 207 \\ 1.854 \\ \pm 207 \\ 1.554 \\ \pm 507 \\ 1.484 \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880 ±057 .824 ±104 .639 ±291 .315	.175 ±022 .301 ±037 ### \$17 ±087 .579 ±123 ### 451	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863 ±214 1.613 ±214 1.518 ±2758 .873 ±758	500 $\pm .067$ .478 $\pm .089$ .344 $\pm .273$ .372 $\pm .249$ .832 $\pm .046$ .651 $\pm .122$ .387 $\pm .316$ .340
0 0 0 0 0 0	0 0 0 0 0 0 0	0.5 0.5 1 1 1 0.1	0 0 0 0 0 0	Yes Yes No Yes Yes No	1 1 1 1 1 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1	0 0 0 0 0 0	.696 ±036 .594 ±034 ### .484 ±037 .444 ±060 ### .4060	.497 ±056 527 ±081 .429 ±109 ±169 .823 ±046 .703 ±112 540 ±272 389 ±178	$\begin{array}{c} 1.008 \\ \pm 035 \\ 1.042 \\ \pm 027 \\ .760 \\ \pm 330 \\ .724 \\ \pm 292 \\ .939 \\ \pm 049 \\ .883 \\ \pm 042 \\ .692 \\ \pm 396 \\ 1.027 \\ \pm 168 \end{array}$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 +844	.000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 +844	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 +224	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 507\\ 1.484\\ \pm 375\\ \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880 ±057 .824 ±057 .824 ±104 .639 ±291 .315 +118	.175 ±022 .301 ±037 ### \$17 ±087 579 ±123 ### .451 +946	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863 ±214 1.611 ±288 .873 ±758 1.305	500 $\pm 067$ .478 $\pm 089$ .344 $\pm 273$ .372 $\pm 249$ .832 $\pm 046$ .651 $\pm 122$ .387 $\pm 316$ .349 .416
0 0 0 0 0 0 0	0 0 0 0 0 0 0	0.5 0.5 1 1 1 0.1 0.1 0.1	0 0 0 0 0 0	Yes No No Yes Yes No No	1 1 1 1 1 1 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1	0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 820	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ .429\\ \pm 249\\ 510\\ \pm 169\\ .823\\ \pm 046\\ .703\\ \pm 112\\ .540\\ \pm 272\\ .389\\ \pm 178\\ 120\end{array}$	$\begin{array}{c} 1.008 \\ \pm 035 \\ 1.042 \\ \pm 027 \\ .760 \\ \pm 330 \\ .724 \\ \pm 292 \\ .939 \\ \pm 049 \\ .883 \\ \pm 042 \\ .692 \\ \pm 396 \\ 1.027 \\ \pm 168 \\ 1.140 \end{array}$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .307	.722 ±034 .607 ±038 ### .499 ±039 .443 ±.072 ### .321 ±.844 .838	.000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±.844 838	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 (073	$\begin{array}{c} 2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 307 \\ 1.774 \\ \pm 207 \\ 1.854 \\ \pm 290 \\ 1.554 \\ \pm 507 \\ 1.484 \\ \pm 375 \\ 2.190 \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880 ±057 .824 ±103 ±291 .315 ±118 247	.175 ±022 .301 ±037 ### 517 ±087 .579 ±123 ### .451 ±946 .038	2.292 ±216 1.597 ±144 .879 ±426 ±425 1.863 ±214 1.611 ±288 .873 ±758 1.305 ±485 2.280	500 $\pm 067$ .478 $\pm 089$ .344 $\pm 273$ .372 $\pm 249$ .832 $\pm 046$ .651 $\pm 122$ .387 $\pm 316$ .349 $\pm 130$ .131
0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0.5 1 1 1 0.1 0.1 0.1	0 0 0 0 0 0 0 0	Yes No No Yes Yes No No Yes	1 1 1 1 1 0 0 0	0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .829 ±001	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ .429\\ \pm 249\\ 510\\ \pm 169\\ \pm 046\\ .703\\ \pm 046\\ .703\\ \pm 112\\ .540\\ \pm 272\\ .389\\ \pm 130\\ \pm 000\\ \pm 000\\ \end{array}$	$\begin{array}{c} 1.008 \\ \pm 035 \\ 1.042 \\ \pm 027 \\ .760 \\ \pm 330 \\ .724 \\ \pm 292 \\ .939 \\ \pm 049 \\ .883 \\ \pm 042 \\ .692 \\ \pm 396 \\ 1.027 \\ \pm 168 \\ 1.140 \\ 1.073 \\ \pm 003 \end{array}$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .302 ±004	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001	.000 ±000 .000 ±000 .000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±042	$\begin{array}{c} 2.110 \\ \pm 219 \\ 1.620 \\ \pm 200 \\ 1.077 \\ \pm 261 \\ 1.001 \\ \pm 307 \\ 1.774 \\ \pm 207 \\ 1.854 \\ \pm 290 \\ 1.554 \\ \pm 507 \\ 1.484 \\ \pm 375 \\ 2.190 \\ \pm 070 \end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .114\\ .701\\ \pm .164\\ .627\\ \pm .145\\ .880\\ \pm .057\\ .824\\ \pm .104\\ .639\\ \pm .291\\ .315\\ \pm .118\\ .247\\ \pm .006\end{array}$	.175 ±022 .301 ±037 ### 517 ±087 .579 ±123 ### .451 ±946 .038 ±003	2.292 ±216 1.597 ±144 .879 ±426 .846 ±425 1.863 ±214 1.611 ±288 .873 ±758 1.305 ±485 2.280 ±027	500 $\pm 067$ 478 $\pm 089$ 344 $\pm 273$ 372 $\pm 249$ 832 $\pm 046$ 651 $\pm 122$ .387 $\pm 349$ $\pm 130$ .131 $\pm 011$
0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0.5 0.5 1 1 1 0.1 0.1 0.1 0.1	0 0 0 0 0 0 0 0	Yes No No Yes No No Yes	1 1 1 1 1 0 0 0	0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±037 .444 ±037 .444 ±06 *## .406 ±621 .829 ±001 692	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ .429\\ \pm 249\\ 510\\ \pm 169\\ .823\\ \pm 046\\ .703\\ \pm 112\\ .540\\ \pm 272\\ .389\\ \pm 178\\ .130\\ \pm 039\\ \pm 0568\\ \end{array}$	1.008 ±035 1.042 ±027 .760 ±330 .724 ±292 .939 ±049 .883 ±042 .692 ±396 1.027 ±168 1.140 ±003	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .302 ±004 427	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 692	.000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 ±000 .000 ±000 .000 ±000 .000	.722 ±034 .607 ±038 ### 499 ±039 .443 ±039 .443 ±039 .443 ±032 ### .321 ±.844 .838 ±001 692	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 088	2.110 $\pm 219$ 1.620 $\pm 200$ 1.077 $\pm 261$ 1.001 $\pm 307$ 1.774 $\pm 207$ 1.854 $\pm 290$ 1.554 $\pm 507$ 1.484 $\pm 375$ 2.190 $\pm 020$ $\pm 020$	$\begin{array}{c} 689\\ \pm090\\ .617\\ \pm114\\ .701\\ \pm164\\ .627\\ \pm145\\ .880\\ \pm057\\ .824\\ \pm104\\ \pm104\\ .639\\ \pm291\\ .315\\ \pm118\\ .247\\ \pm006\\ 239\end{array}$	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 088	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 758 \\ 1.305 \\ \pm 485 \\ 2.280 \\ \pm 027 \\ 1.658 \end{array}$	500 $\pm 067$ 478 $\pm 089$ 344 $\pm 273$ 372 $\pm 249$ 832 $\pm 046$ .651 $\pm 122$ .387 $\pm 316$ .349 $\pm 130$ .131 $\pm 011$ 239
0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0.5 1 1 1 0.1 0.1 0.1 0.1	0 0 0 0 0 0 0 0	Yes No No Yes No No Yes Yes	1 1 1 1 1 0 0 0 0	0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.01 0.1	0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±001	$\begin{array}{r} .497\\ \pm 0566\\ 527\\ \pm 081\\ 429\\ \pm 249\\ 510\\ \pm 169\\ 823\\ \pm 046\\ .703\\ \pm 178\\ .130\\ \pm 099\\ \pm 082\\ \pm 082\\ \end{array}$	$\begin{array}{r} 1.008 \\ \pm 035 \\ 1.042 \\ \pm 027 \\ .760 \\ \pm 330 \\ .724 \\ \pm 292 \\ .939 \\ \pm 049 \\ .883 \\ \pm 042 \\ .692 \\ \pm 396 \\ 1.027 \\ \pm 168 \\ 1.140 \\ \pm 003 \\ 1.119 \\ 1.119 \end{array}$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ### .706 ±.683 .302 ±.004 .427 ±.054	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±.844 .838 ±.001 .692 ±.085	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### .499 ±039 .443 ±039 .443 ±039 .443 ±072 ### .321 ±.844 .838 ±.001 .6922 ±.085	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 507\\ 1.484\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ \end{array}$	$\begin{array}{c} 689\\ \pm 090\\ 617\\ \pm 114\\ .627\\ \pm 145\\ .627\\ \pm 145\\ .880\\ \pm 057\\ .824\\ \pm 104\\ .639\\ \pm 291\\ .315\\ \pm 118\\ .247\\ \pm 006\\ .239\\ \pm 061\end{array}$	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±035	2.292 ±216 1.597 ±144 .879 ±426 ±425 1.863 ±214 1.611 ±288 ±758 1.305 ±485 2.280 ±027 1.658 ±263	500 $\pm 0.67$ 4.78 $\pm 0.89$ 344 $\pm 2.73$ .372 $\pm 2.49$ .832 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 316$ .349 $\pm 130$ .131 $\pm 0.11$ .201 $\pm 0.86$
0 0 0 0 0 0 0 0 0		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.1	0 0 0 0 0 0 0 0 0	Yes No No Yes Yes No Yes Yes Yes	1 1 1 1 1 0 0 0 0 0	0.01 0.1 0.01 0.1 0.1 0.1 0.01 0.1 0.1 0	0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .4060 ±621 .829 ±001 .692 ±001	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ .429\\ \pm 249\\ 510\\ \pm 169\\ .823\\ \pm 046\\ .703\\ \pm 112\\ .540\\ \pm 046\\ .703\\ \pm 178\\ .130\\ \pm 009\\ .268\\ \pm 009\\ .268\\ \pm 059\end{array}$	$\begin{array}{c} 1.008 \\ \pm 0.035 \\ 1.042 \\ \pm 0.027 \\ 7.760 \\ \pm 3.30 \\ .724 \\ \pm 2.922 \\ .939 \\ \pm 0.49 \\ \pm 0.49 \\ \pm 0.42 \\ .692 \\ \pm 3.96 \\ 1.027 \\ \pm 1.68 \\ 1.140 \\ \pm 0.03 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1.119 \\ 1$	287 ±038 .434 ±031 ### .439 ±080 ±080 ±092 ### .706 ±683 .302 ±004 .427 ±054 ###	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 ±039 ±039 ±039 ±039 ±0	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .888 ±024 ###	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \end{array}$	$\begin{array}{c} 689\\ \pm090\\ .617\\ \pm114\\ .701\\ \pm164\\ .627\\ \pm145\\ .880\\ \pm057\\ .824\\ \pm104\\ .639\\ \pm2291\\ .315\\ \pm118\\ .247\\ \pm006\\ .239\\ \pm061\\ .861\end{array}$	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003	2.292 $\pm 216$ 1.597 $\pm 144$ .879 $\pm 426$ .846 $\pm 425$ 1.863 $\pm 214$ 1.611 $\pm 288$ .873 $\pm 738$ $\pm 738$ $\pm 738$ $\pm 425$ 1.305 $\pm 2.280$ $\pm 0.27$ 1.658 $\pm 2.631$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 344 $\pm 2.73$ 3.72 $\pm 2.49$ .332 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 3.16$ .349 $\pm 130$ .131 $\pm 0.11$ .239 $\pm 0.35$
0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2	0 0 0 0 0 0 0 0 0	Yes No No Yes Yes No Yes Yes Yes	1 1 1 1 1 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.1	0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±071 ###	$\begin{array}{r} .497\\ \pm 0566\\ 527\\ \pm 081\\ 429\\ \pm 249\\ 510\\ \pm 169\\ 823\\ \pm 046\\ 5703\\ \pm 112\\ 540\\ \pm 272\\ 389\\ \pm 178\\ 130\\ \pm 009\\ 268\\ \pm 099\\ 268\\ \pm 099\\ 268\\ \pm 343\\ \end{array}$	$\begin{array}{c} 1.008 \\ \pm 035 \\ 1.042 \\ \pm 027 \\ 760 \\ \pm 330 \\ .724 \\ \pm 292 \\ .939 \\ \pm 049 \\ \pm 049 \\ .692 \\ \pm 396 \\ 1.027 \\ \pm 168 \\ 1.140 \\ \pm 003 \\ 1.119 \\ \pm 031 \\ .520 \\ \pm 433 \\ \end{array}$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ### .706 ±.683 .302 ±.004 .427 ±.054 ###	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±043 ±072 ### .321 ±844 .838 ±001 .692 ±085 ###	$\begin{array}{c} .000\\ \pm .000\\ .000\\ .000\\ \pm .000\\ .000\\ .000\\ \pm .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .$	.722 ±.034 .607 ±.038 ### .499 ±.039 ±.043 ±.072 ### .321 ±.844 8.38 ±.001 .692 ±.085 ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 ###	2.110 $\pm 219$ 1.620 $\pm 200$ 1.077 $\pm 261$ 1.001 $\pm 307$ 1.774 $\pm 201$ 1.854 $\pm 290$ 1.554 $\pm 290$ 1.554 $\pm 290$ 1.554 $\pm 200$ 1.608 $\pm 247$ 1.280 $\pm 608$ $\pm 247$ 1.261	.689 ±0900 .617 ±114 .627 ±164 .627 ±145 .880 ±057 .824 ±104 .639 ±291 .315 ±118 .247 ±006 239 ±061 .249 ±1061 .818	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003 .088	2.292 $\pm 216$ 1.597 $\pm 144$ .879 $\pm 426$ .846 $\pm 425$ 1.863 $\pm 214$ 1.611 $\pm 288$ .873 $\pm 758$ 1.305 $\pm 485$ $\pm 2.280$ $\pm 0.27$ 1.658 $\pm 2.280$ $\pm 0.27$ 1.658 $\pm 6.63$ $\pm 6.63$ $\pm$	500 $\pm 067$ 4.78 $\pm 0.89$ 344 $\pm 273$ 372 $\pm 249$ 832 $\pm 046$ .651 $\pm 122$ .387 $\pm 316$ .349 $\pm 130$ $\pm 130$ $\pm 131$ $\pm 011$ .239 $\pm 086$ .305 $\pm 320$
0 0 0 0 0 0 0 0 0		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2		Yes No No Yes No No Yes Yes No	1 1 1 1 1 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1	0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±071 ###	$\begin{array}{r} .497\\ \pm 0566\\ 527\\ \pm 0819\\ \pm 249\\ 510\\ \pm 169\\ 823\\ \pm 046\\ .703\\ \pm 112\\ 540\\ \pm 272\\ .389\\ \pm 112\\ 540\\ \pm 272\\ .389\\ \pm 130\\ \pm 009\\ .268\\ \pm 082\\ .459\\ \pm 082\\ .459\\ 577\\ - 268\\ \pm 082\\ .459\\ .577\\ - 268\\ \pm 082\\ .459\\ .577\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - 268\\ - $	$\begin{array}{c} 1.008 \\ \pm 0.035 \\ 1.042 \\ \pm .027 \\ .760 \\ \pm .330 \\ .724 \\ \pm .292 \\ .939 \\ \pm .049 \\ .883 \\ \pm .042 \\ .692 \\ \pm .396 \\ 1.027 \\ \pm .168 \\ 1.027 \\ \pm .168 \\ 1.027 \\ \pm .168 \\ 1.027 \\ \pm .031 \\ .520 \\ .520 \\ .5$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .302 ±004 .427 ±054 ###	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ###	$\begin{array}{c} .000\\ \pm .000\\ .000\\ .000\\ \pm .000\\ .000\\ .000\\ \pm .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .000\\ .$	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .888 ±024 ###	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 290\\ 1.554\\ \pm 597\\ 1.484\\ \pm 375\\ 2.190\\ 1.608\\ \pm 247\\ 1.280\\ \pm 467\\ 1.454\\ \end{array}$	.689 ±0900 .617 ±114 .701 ±164 .627 ±145 .880 ±057 .824 ±104 .639 ±291 .315 ±118 .247 ±206 .239 ±061 .239 ±061 .861	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### 451 ±946 038 ±003 .088 ±003 .088 ±003 .088	2.292 $\pm 216$ 1.597 $\pm 144$ .879 $\pm 426$ .846 $\pm 425$ 1.863 $\pm 214$ 1.611 $\pm 288$ .873 $\pm 758$ 1.305 $\pm 485$ 2.260 $\pm 0.27$ 1.658 $\pm 263$ $\pm 631$ $\pm 631$ $\pm 631$ $\pm 1646$	500 $\pm 067$ 478 $\pm 089$ 344 $\pm 273$ 372 $\pm 249$ 832 $\pm 046$ 651 $\pm 122$ .387 $\pm 316$ 349 $\pm 130$ .131 .239 $\pm 086$ .305 $\pm 320$ 478
0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2	0 0 0 0 0 0 0 0 0 0	Yes No No Yes No No Yes Yes No	1 1 1 1 1 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1	0 0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .692 ±071 .692 ±071 ###	$\begin{array}{r} .497\\ \pm 0556\\ 5271\\ \pm 0811\\ .429\\ \pm 046\\ .703\\ \pm 0446\\ .703\\ \pm 046\\ .703\\ \pm 046\\ .703\\ \pm 046\\ .703\\ \pm 046\\ $	$\begin{array}{c} 1.008\\ \pm 0.035\\ 1.042\\ \pm 0.027\\ .760\\ \pm 3.30\\ .724\\ \pm 2.92\\ .939\\ \pm 0.49\\ .883\\ \pm 0.42\\ .692\\ \pm 3.96\\ 1.027\\ \pm 1.68\\ 1.140\\ \pm 0.03\\ 1.119\\ \pm 0.31\\ .520\\ \pm 4.33\\ .872\\ \pm 2.57\end{array}$	287 ±038 434 ±031 ### 439 ±080 440 ±092 ### 706 ±683 302 ±094 ±054 ### 7,589 ±23.8	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .6925 ±085 ±085	.000 ±000 000 ±000 ±000 ±000 ±000 ±000	.722 ±.034 .607 ±.038 ### .499 ±.039 .443 ±.072 ### .321 ±.844 .838 ±.001 .692 ±.085 ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .0888 ±024 ### 3.906	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 507\\ 1.484\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 467\\ 1.280\\ \pm 4550\end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .114\\ .701\\ \pm .164\\ .627\\ \pm .164\\ .627\\ .820\\ \pm .057\\ .824\\ \pm .04\\ .639\\ \pm .057\\ .824\\ \pm .104\\ .639\\ \pm .235\\ \pm .118\\ .247\\ \pm .026\\ .239\\ \pm .061\\ .861\\ \pm .188\\ .621\\ \pm .061\\ .861\\ \pm .026\\ .231\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861\\ .861$	.175 ±022 .301 ±037 ### 517 ±087 .579 ±123 ### .451 ±946 .038 ±003 .088 ±035 ###	2.292 $\pm 216$ 1.597 $\pm 144$ .879 $\pm 426$ .846 $\pm 425$ 1.863 $\pm 214$ 1.611 $\pm 288$ .873 $\pm 758$ $\pm 485$ 2.280 $\pm 027$ 1.658 $\pm 263$ .631 $\pm 699$ 1.106	500 $\pm 0.67$ 4.78 $\pm 0.89$ 3.44 $\pm 2.73$ 3.72 $\pm 2.49$ 8.32 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 3.16$ .349 $\pm 130$ .131 $\pm 0.11$ 2.39 $\pm 0.86$ .305 $\pm 320$ .475
0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2	0 0 0 0 0 0 0 0 0	Yes No No Yes No Yes Yes No No	1 1 1 1 1 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.	0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .692 ±071 .692 ±071 .75	$\begin{array}{r} .497\\ \pm 056\\ 5271\\ \pm 081\\ .429\\ \pm 049\\ 510\\ \pm 169\\ .829\\ \pm 046\\ .703\\ \pm 112\\ 540\\ \pm 046\\ .703\\ \pm 112\\ 540\\ \pm 046\\ .703\\ \pm 112\\ .540\\ \pm 046\\ .703\\ \pm 112\\ .540\\ \pm 046\\ .703\\ \pm 046\\ .$	$\begin{array}{c} 1.008 \\ \pm 0.035 \\ 1.042 \\ \pm 0.027 \\ .760 \\ \pm 3.00 \\ .724 \\ \pm 2.92 \\ .939 \\ \pm 0.49 \\ \pm 0.42 \\ .692 \\ \pm 3.96 \\ 1.027 \\ \pm 1.68 \\ 1.140 \\ \pm 0.03 \\ 1.119 \\ \pm 0.31 \\ .520 \\ \pm 4.33 \\ .872 \\ \pm 2.57 \\ \end{array}$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .302 ±094 .427 ±054 ### .7589 ±23.8	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ****	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±.034 .607 ±.038 ### .499 ±.039 ±.039 ±.039 ±.039 ±.035 ±.072 ±.085 ### .692 ±.085 ****	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 .088 ±024 .088 ±026 _2	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 507\\ 1.484\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 247\\ 1.280\\ \pm 467\\ 1.454\\ \pm 550\end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .114\\ .701\\ \pm .164\\ .627\\ \pm .164\\ .627\\ \pm .164\\ .639\\ \pm .057\\ \pm .057\\ \pm .024\\ \pm .006\\ .239\\ \pm .021\\ \pm .006\\ .239\\ \pm .061\\ .247\\ \pm .006\\ .239\\ \pm .061\\ .261\\ \pm .188\\ .626\\ \pm .211\end{array}$	.175 ±022 .301 ±037 ### 517 ±087 .579 ±123 ### .451 ±946 .038 ±035 .088 ±035 .088 ±035 .14.36 1 ±41.4	2.292 $\pm 216$ 1.597 $\pm 144$ .879 $\pm 426$ .846 $\pm 425$ 1.863 $\pm 214$ 1.611 $\pm 288$ .873 $\pm 758$ $\pm 758$ 1.305 $\pm 485$ 2.280 $\pm 027$ 1.658 $\pm 263$ .631 $\pm 699$ 1.106 $\pm 590$	$\begin{array}{c} 500 \\ \pm 0.67 \\ .478 \\ \pm 0.89 \\ .344 \\ \pm 273 \\ .372 \\ \pm 249 \\ .832 \\ \pm 0.46 \\ .651 \\ \pm 122 \\ .387 \\ \pm 316 \\ .439 \\ \pm 130 \\ .131 \\ \pm 011 \\ .239 \\ \pm 0.86 \\ .305 \\ \pm .320 \\ .478 \\ \pm .215 \end{array}$
0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2	0 0 0 0 0 0 0 0 0 0	Yes No No Yes No Yes No Yes No	1 1 1 1 1 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1	0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±001 .692 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ .429\\ \pm 049\\ 510\\ \pm 169\\ .823\\ \pm 046\\ .703\\ \pm 112\\ 540\\ \pm 046\\ .703\\ \pm 112\\ 540\\ \pm 049\\ .130\\ \pm 009\\ .268\\ \pm 049\\ \pm 049\\ \pm 049\\ \pm 343\\ .597\\ \pm 207\end{array}$	$\begin{array}{c} 1.008 \\ \pm 035 \\ 1.042 \\ \pm 027 \\ .760 \\ \pm 330 \\ .724 \\ \pm 292 \\ .939 \\ \pm 049 \\ .883 \\ \pm 042 \\ .692 \\ \pm 396 \\ 1.027 \\ \pm 168 \\ 1.140 \\ \pm 003 \\ 1.119 \\ \pm 257 \\ \pm 257 \end{array}$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .302 ±004 .427 ±004 .427 ±004 .427 ±004 .275 #9 ±23.8 26	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ###	.000 ±000 .000 ±000 .000 ±000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 ±039 ±037 ±072 ### .321 ±844 .838 ±001 .692 ±085 ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±002 .088 ±002 .088 ±024 ### 3.906 ±9.56 2	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 247\\ 1.280\\ \pm 467\\ 1.454\\ \pm 550\end{array}$	$\begin{array}{c} .689\\ \pm090\\ .617\\ \pm114\\ .701\\ \pm164\\ .627\\ \pm145\\ .824\\ \pm057\\ .824\\ \pm104\\ .639\\ \pm291\\ .315\\ .247\\ \pm006\\ .239\\ \pm061\\ \pm118\\ .247\\ \pm006\\ .239\\ \pm061\\ \pm188\\ .626\\ \pm211\end{array}$	.175 ±022 .301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003 .088 ±035 ### 14.36 1 ±41.4 .94	2.292 $\pm 216$ 1.597 $\pm 144$ .879 $\pm 426$ .846 $\pm 425$ 1.863 $\pm 214$ 1.611 $\pm 288$ .873 $\pm 735$ $\pm 485$ 2.280 $\pm 027$ 1.658 $\pm 2.631$ $\pm 699$ 1.106 $\pm 590$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 344 $\pm 273$ 372 $\pm 249$ .322 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 316$ .349 $\pm 130$ .131 $\pm 0.11$ .239 $\pm 0.85$ $\pm 320$ .478 $\pm 225$
		0.5 0.5 1 1 1 0.1 0.1 0.1 0.2 0.2 0.2		Yes No No Yes No Yes No Yes No Yes	1 1 1 1 1 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.1 0.1 0.01 0.1 0.	0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .4060 ±621 .829 ±001 .692 ±001 .692 ±001 .692 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 .829 .829 .829 .829 .829 .829 .829	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ 429\\ \pm 049\\ 510\\ \pm 169\\ 823\\ \pm 046\\ 703\\ \pm 112\\ 540\\ \pm 073\\ \pm 112\\ 540\\ \pm 073\\ \pm 178\\ .130\\ \pm 009\\ 268\\ \pm 082\\ 459\\ \pm 343\\ 577\\ \pm 207\\ \end{array}$	$\begin{array}{c} 1.008 \\ \pm 0.35 \\ 1.042 \\ \pm 0.27 \\ 7.760 \\ \pm 3.30 \\ .724 \\ \pm 2.92 \\ .939 \\ \pm 0.49 \\ \pm 0.49 \\ \pm 0.42 \\ .692 \\ \pm 0.43 \\ \pm 0.4$	287 ±038 .434 ±031 ### .439 ±080 ±092 ### .706 ±683 .302 ±004 .427 ±054 ### 7.589 ±23.8 26 .303	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 ±039 ±039 ±039 ±039 ±0	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### .499 ±039 ±043 ±072 ### .321 ±.844 .838 ±001 .692 ±085 ### .6717 ±23.9 .6324	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 ### 3.906 ±9.56 2 104	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 020\\ 1.608\\ \pm 247\\ 1.454\\ \pm 550\\ \end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .014\\ .701\\ \pm .144\\ .627\\ \pm .145\\ .880\\ \pm .057\\ .824\\ \pm .04\\ .639\\ \pm .057\\ .824\\ \pm .04\\ .639\\ \pm .021\\ .821\\ \pm .061\\ .247\\ \pm .006\\ .239\\ \pm .061\\ .861\\ \pm .188\\ .626\\ \pm .211\\ \end{array}$	.175 ±022 .301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003 .088 ±003 .088 ±1035 ###	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ .846 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 738 \\ 1.305 \\ \pm 2.80 \\ \pm 027 \\ 1.658 \\ \pm 2.80 \\ \pm 027 \\ 1.658 \\ \pm 2.631 \\ \pm .699 \\ 1.106 \\ \pm .590 \end{array}$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 344 $\pm 2.73$ 3.72 $\pm 2.49$ .332 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 316$ .349 $\pm 130$ .131 $\pm 0.11$ .239 $\pm 0.305$ $\pm 320$ .478 $\pm 2.215$ .248
0 0 0 0 0 0 0 0 0 0		0.5 0.5 1 1 1 0.1 0.1 0.1 0.2 0.2	0 0 0 0 0 0 0 0 0 0 0	Yes No No Yes No Yes Yes No No	1 1 1 1 1 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.	0 0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±034 ### .484 ±060 ### .406 ±621 .692 ±071 .692 ±071 .692 ±071 ### .5089 ±17.5 24 .814	$\begin{array}{r} .497 \\ \pm 0566 \\ 5277 \\ \pm 0811 \\ .429 \\ \pm 249 \\ 510 \\ \pm 169 \\ .823 \\ \pm 046 \\ .703 \\ \pm 112 \\ .540 \\ \pm 272 \\ .389 \\ \pm 178 \\ .130 \\ \pm 009 \\ .268 \\ \pm 082 \\ .459 \\ \pm 343 \\ .597 \\ \pm 207 \\ \pm 207 \\ 248 \\ \pm 011 \\ \end{array}$	$\begin{array}{c} 1.008 \\ \pm 0.35 \\ 1.042 \\ \pm 0.27 \\ 7.760 \\ \pm 3.30 \\ .724 \\ \pm 2.92 \\ .939 \\ \pm 0.49 \\ \pm 0.49 \\ \pm 0.49 \\ \pm 0.42 \\ .692 \\ \pm 3.96 \\ 1.027 \\ \pm 1.68 \\ 1.140 \\ \pm 0.03 \\ 1.119 \\ \pm 0.03 \\ 1.119 \\ \pm 0.03 \\ 1.119 \\ \pm 0.520 \\ \pm 4.33 \\ .872 \\ \pm 2.57 \\ 1.127 \\ \pm 0.06 \end{array}$	287 ±.038 .434 ±.031 ### .439 ±.080 ±.040 ±.092 ### .706 ±.683 .302 ±.004 .427 ±.054 ### 7.589 ±23.8 26 .303 ±.008	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ### .6717 ±23.9 63 .824 ±003	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±.034 .607 ±.038 ### .499 ±.039 ±.043 ±.072 ### .321 ±.844 8.38 ±.001 .692 ±.085 ### - 6.717 ±23.9 6.3 .824 ±.003	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 ### 3.906 ±9.56 2 .104 ±004	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 2100\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 020\\ 2.176\\ \pm 043\\ \end{array}$	.689 ±090 .617 ±114 .701 ±164 .627 ±145 .880 ±057 .824 ±104 .639 ±291 .315 ±118 .247 ±006 .239 ±061 .861 ±188 .626 ±211	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±033 .088 ±033 .088 ±035 ### 14.36 1 ±41.4 94 .073 ±002	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ .846 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 738 \\ 1.305 \\ \pm 485 \\ \pm 2.280 \\ \pm 027 \\ 1.658 \\ \pm 2.270 \\ \pm 048 \end{array}$	$\begin{array}{c} 500\\ \pm 067\\ .478\\ \pm 089\\ .344\\ \pm 273\\ .372\\ \pm 249\\ .332\\ \pm 046\\ .651\\ \pm 122\\ .387\\ \pm 316\\ .349\\ \pm 130\\ .131\\ \pm 011\\ .239\\ \pm 130\\ .131\\ \pm 011\\ .239\\ \pm 086\\ .305\\ \pm .215\\ \end{array}$
		0.5 0.5 1 1 1 0.1 0.1 0.1 0.2 0.2 0.2 0.2		Yes No No Yes No Yes No Yes No Yes	1 1 1 1 1 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.1	0 0 0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±071 ### 5.089 ±17.5 24 .814 ±003 .786	$\begin{array}{r} .497\\ \pm 0556\\ 5277\\ \pm 0811\\ .429\\ \pm 049\\ 5100\\ \pm 169\\ .823\\ \pm 046\\ .703\\ \pm 112\\ 5400\\ \pm 272\\ .389\\ \pm 178\\ .130\\ \pm 009\\ 268\\ \pm 082\\ .459\\ \pm 343\\ .577\\ \pm 207\\ 248\\ \pm 011\\ .318\\ \end{array}$	$\begin{array}{c} 1.008\\ \pm 0.35\\ 1.042\\ \pm 0.27\\ .760\\ \pm 3.30\\ .724\\ \pm 292\\ .939\\ \pm 0.49\\ .883\\ \pm 0.42\\ .692\\ \pm 3.96\\ 1.027\\ \pm 1.68\\ 1.140\\ \pm 0.03\\ 1.119\\ \pm 0.31\\ .520\\ \pm 4.33\\ .872\\ \pm 2.57\\ 1.127\\ \pm 0.36\\ 1.127\\ \pm 0.36\\ 1.136\\ 1.127\\ \pm 0.36\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.136\\ 1.$	287 ±038 434 ±031 ### 439 ±080 440 ±092 ### .706 ±683 302 ±092 ### .706 ±683 302 ±054 ### 7.589 ±23.8 26 303 ±008 346	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ###	.000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000	.722 ±.034 .607 ±.038 ### .499 ±.039 .443 ±.072 ### .321 ±.844 .838 ±.001 .692 ±.085 ### 	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±091 ### .184 ±224 .073 ±002 .0888 ±024 ### 3.906 ±9.56 2 .104 ±004 .104	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 207\\ 1.854\\ \pm 207\\ 1.854\\ \pm 557\\ 1.484\\ \pm 375\\ 2.190\\ \pm 0.020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 247\\ 1.484\\ \pm 550\\ \end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .114\\ .701\\ \pm .164\\ .627\\ \pm .164\\ .627\\ .820\\ \pm .057\\ .824\\ \pm .057\\ .824\\ \pm .035\\ \pm .057\\ .824\\ \pm .014\\ .639\\ \pm .029\\ \pm .061\\ .239\\ \pm .061\\ .239\\ \pm .061\\ .239\\ \pm .061\\ .239\\ \pm .014\\ .351\\ \end{array}$	.175 ±022 .301 ±037 ### \$17 ±087 .579 ±123 ### .451 ±946 .038 ±003 .088 ±035 ### 14.36 1 ±41.4 94 .073 ±007	$\begin{array}{c} 2.292\\ \pm 216\\ 1.597\\ \pm .144\\ .879\\ \pm .426\\ .846\\ \pm .425\\ 1.863\\ \pm .214\\ 1.611\\ \pm .288\\ .873\\ \pm .214\\ 1.611\\ \pm .280\\ \pm .214\\ 1.305\\ \pm .485\\ 2.280\\ \pm .027\\ 1.658\\ \pm .263\\ .631\\ \pm .699\\ 1.106\\ \pm .590\\ 2.270\\ \pm .048\\ 2.035\\ \end{array}$	$\begin{array}{c} 500\\ \pm 0.67\\ 478\\ \pm 0.89\\ 344\\ \pm 273\\ 372\\ \pm 249\\ 832\\ \pm 0.46\\ .651\\ \pm 122\\ .387\\ \pm .316\\ .349\\ \pm 130\\ .131\\ \pm 0.11\\ .239\\ \pm .086\\ .305\\ \pm .320\\ .478\\ \pm .215\\ \pm .248\\ \pm .008\\ .306\end{array}$
0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 0.5 1 1 1 0.1 0.1 0.1 0.2 0.2 0.2	0 0 0 0 0 0 0 0 0 0 0	Yes No No Yes No Yes No No Yes Yes Yes	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.	0 0 0 0 0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .692 ±071 .692 ±071 .692 ±071 .5089 ±17.5 24 .814 ±03 .786 ±012	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ .429\\ \pm 081\\ .429\\ 510\\ \pm 169\\ .823\\ \pm 046\\ .703\\ \pm 112\\ 540\\ \pm 272\\ .389\\ \pm 178\\ .130\\ \pm 009\\ 268\\ \pm 082\\ .459\\ \pm 277\\ \pm 207\\ 248\\ \pm 011\\ .318\\ \pm 030\\ \end{array}$	$\begin{array}{c} 1.008\\ \pm 0.35\\ 1.042\\ \pm 0.27\\ .760\\ \pm 3.30\\ .724\\ \pm 292\\ .939\\ \pm 0.49\\ \pm .949\\ .883\\ \pm 0.42\\ .692\\ \pm .396\\ 1.027\\ \pm 1.68\\ 1.140\\ \pm 0.03\\ 1.119\\ \pm 0.31\\ .520\\ \pm 4.33\\ .872\\ \pm 2.57\\ 1.127\\ \pm 0.06\\ 1.136\\ \pm 0.06\\ \end{array}$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .302 ±004 .427 ±054 ±054 ±0589 ±23.8 26 .303 ±008 .346	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ±085 .739 6.717 ±23.9 63 .824 ±003 .790 .2011	.000 ±000 000 ±000 000 ±000 ±000 ±000 ±	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .6925 ±085 ### -6.717 ±23.9 63 .824 ±003 .7900 ±011	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 ### 3.906 ±9.56 2 .104 ±0.04 .111 ±017	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 507\\ 1.484\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 467\\ 1.280\\ \pm 467\\ 1.280\\ \pm 467\\ 1.280\\ \pm 020\\ 5.005\\ \pm 091\\ \end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .114\\ .701\\ \pm .164\\ .627\\ \pm .164\\ .627\\ \pm .164\\ .639\\ \pm .057\\ \pm .057\\ \pm .024\\ \pm .014\\ .315\\ \pm .014\\ .338\\ \pm .014\\ .351\\ \pm .047\\ \end{array}$	.175 ±022 .301 ±037 ### ### 517 ±087 .579 ±123 ### .451 ±946 .038 ±035 .088 ±035 .088 ±035 ### 14.36 1 ±41.4 .94 .073 ±022 .097 ±015	2292 ±216 1597 ±144 .879 ±426 .846 ±425 1.863 ±214 1.611 ±288 .873 ±214 1.611 ±288 .873 ±214 1.611 ±288 .873 ±258 ±027 1.658 ±263 .631 ±699 1.106 ±590 2.270 ±048 2.035	500 $\pm 0.67$ 4.78 $\pm 0.89$ 3.44 $\pm 2.73$ 3.72 $\pm 2.49$ 8.32 $\pm 0.46$ 6.51 $\pm 122$ .387 $\pm 3.16$ 3.49 $\pm 130$ .131 $\pm 0.11$ 2.39 $\pm 0.866$ 3.05 $\pm .320$ 4.78 $\pm 2.15$ 2.488 $\pm 0.08$ 3.06 $\pm 0.42$
		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2		Yes No No Yes No Yes No Yes No Yes Yes No	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.	0 0 0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±071 ### 5.089 ±17.5 5.089 ±17.5 24 .814 ±003 .786 ±012 ###	$\begin{array}{c} .497\\ \pm .056\\ 5277\\ \pm .081\\ .429\\ \pm .081\\ .429\\ 510\\ \pm .042\\ .500\\ \pm .042\\ .703\\ .703\\ \pm .042\\ .703\\ .703\\ \pm .042\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ $	$\begin{array}{c} 1.008\\ \pm 0.35\\ 1.042\\ \pm 0.27\\ .760\\ \pm 3.30\\ .724\\ \pm 292\\ .939\\ \pm 0.49\\ \pm 0.42\\ .692\\ \pm 3.96\\ 1.027\\ \pm 168\\ 1.140\\ \pm 0.03\\ 1.119\\ \pm 0.31\\ .520\\ \pm 4.33\\ .872\\ \pm 2.57\\ 1.127\\ \pm 0.06\\ 1.136\\ \pm 0.06\\ 4.80\end{array}$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ### .706 ±.683 .302 ±.004 .427 ±.054 ### 7.589 ±23.8 26 .303 ±.008 .346 ±.013	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 *## - 6.717 ±23.9 63 .824 ±003 .790 ±0.03	.000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000	.722 ±.034 .607 ±.038 ### .499 ±.039 ±.039 .443 ±.072 ### .321 ±.844 .838 ±.001 .692 ±.085 ### .6.717 ±23.9 .63 .824 ±.003 .790 ±.011 ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 .023 .088 ±024 .044 ±9.56 2 .104 ±0.04 .111 ±0.17 .04	2.110 $\pm 219$ 1.620 $\pm 200$ 1.077 $\pm 261$ 1.001 $\pm 307$ 1.774 $\pm 207$ 1.854 $\pm 290$ 1.554 $\pm 290$ 1.554 $\pm 290$ 1.554 $\pm 375$ 2.190 $\pm 020$ 1.484 $\pm 375$ 2.190 $\pm 467$ 1.454 $\pm 550$ 2.176 $\pm 043$ 2.071 $\pm 001$ 1.525	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .114\\ .701\\ \pm .164\\ .627\\ \pm .164\\ .627\\ \pm .164\\ .639\\ \pm .057\\ \pm .057\\ .824\\ \pm .037\\ \pm .067\\ .315\\ \pm .118\\ .247\\ \pm .006\\ .239\\ \pm .061\\ \pm .188\\ .626\\ \pm .211\\ .338\\ \pm .014\\ .351\\ \pm .042\\ .351\\ .351\\ \pm .042\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .35$	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .097 ±41.4 .94 .073 ±002 .097	$\begin{array}{c} 2.292\\ \pm 216\\ 1.597\\ \pm 144\\ .879\\ \pm 426\\ .846\\ \pm 425\\ 1.863\\ \pm 214\\ 1.611\\ \pm 288\\ .873\\ \pm 214\\ 1.611\\ \pm 288\\ .873\\ \pm 214\\ 1.611\\ \pm 288\\ .873\\ \pm 2080\\ \pm 027\\ 1.658\\ \pm .631\\ \pm .699\\ 1.106\\ \pm .590\\ 2.270\\ \pm .048\\ 2.035\\ \pm .079\\ .509\end{array}$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 344 $\pm 2.73$ 3.72 $\pm 2.49$ 8.32 $\pm 0.46$ 6.51 $\pm 122$ .387 $\pm 316$ $\pm 130$ .131 $\pm 0.11$ 2.396 $\pm .320$ .478 $\pm 2.15$ 2.48 $\pm 0.08$ .306 $\pm 0.42$ .406
0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2		Yes No No Yes No Yes No Yes No Yes Yes No	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .4060 ### .4060 ±621 .829 ±001 .692 ±001 .692 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .844 .844 .844 .849 .849 .849 .849 .849	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ .429\\ \pm 049\\ 510\\ \pm 169\\ .823\\ \pm 046\\ .703\\ \pm 112\\ 540\\ \pm 046\\ .703\\ \pm 112\\ 540\\ \pm 049\\ 268\\ \pm 049\\ \pm 389\\ \pm 343\\ 597\\ \pm 207\\ 248\\ \pm 011\\ .318\\ \pm 003\\ .672\\ \pm 247\\ \end{array}$	$\begin{array}{c} 1.008\\ \pm 0.35\\ 1.042\\ \pm 0.07\\ .760\\ \pm 3.30\\ .724\\ \pm 292\\ .939\\ \pm 0.49\\ .883\\ \pm 0.42\\ .692\\ \pm 3.96\\ 1.027\\ \pm 168\\ 1.140\\ \pm 0.03\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.1$	287 ±038 .434 ±031 ### .439 ±080 .400 ±092 #N# .706 ±683 .302 ±004 .427 ±054 ### 7.589 ±23.8 26 .303 ±008 .346 ±013 ###	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 ±033 ±072 ### .321 ±844 .838 ±001 .692 ±085 ### 6.717 ±23.9 6.3 .824 ±003 .824 ±003 .824	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 ±039 ±039 ±039 ±039 ±0	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 ### 3.906 ±9.56 2 .104 ±004 .1111 ±017 ###	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.454\\ \pm 550\\ \end{array}$	$\begin{array}{c} .689\\ \pm090\\ .617\\ \pm114\\ .701\\ \pm164\\ .627\\ \pm145\\ .824\\ \pm057\\ .824\\ \pm104\\ .639\\ \pm291\\ .315\\ \pm118\\ .247\\ \pm006\\ .239\\ \pm014\\ .351\\ \pm188\\ .626\\ \pm211\\ .338\\ \pm014\\ .351\\ .351\\ \pm014\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .351\\ .35$	.175 ±022 .301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 .001 .007 .007 .007 .007 .007 .007 .007	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ .846 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ 1.305 \\ \pm .027 \\ 1.658 \\ \pm .031 \\ \pm .$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 3.44 $\pm 2.73$ 3.72 $\pm 2.49$ .332 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 316$ .349 $\pm 130$ .131 $\pm 0.11$ .239 $\pm 0.85$ $\pm 320$ .478 $\pm 2.15$ .248 $\pm 0.08$ .306 $\pm 0.42$ .402 .404
		0.5 0.5 1 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.5 0.5		Yes No No Yes No Yes No No Yes Yes No No	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.1		.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .4060 ### .4060 ### .4060 ±621 .829 ±001 .692 ±001 .692 ±001 .692 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .829 ±001 .839 ±003 .844 .844 .844 .844 .844 .844 .844 .84	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ 429\\ \pm 049\\ 510\\ \pm 169\\ 823\\ \pm 046\\ 703\\ \pm 112\\ 540\\ \pm 073\\ \pm 112\\ 540\\ \pm 073\\ \pm 112\\ 540\\ \pm 039\\ \pm 039$	$\begin{array}{c} 1.008\\ \pm 0.35\\ 1.042\\ \pm 0.27\\ 7.760\\ \pm 3.30\\ .724\\ \pm 2.92\\ .939\\ \pm 0.49\\ \pm 0.49\\ \pm 0.49\\ \pm 0.49\\ \pm 0.42\\ .692\\ \pm 0.42\\ .692\\ \pm 0.42\\ 1.027\\ \pm 0.43\\ 1.109\\ \pm 0.03\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.119\\ 1.1$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .302 ±004 .427 ±054 ### 7.589 ±23.8 26 .303 ±008 .346 ±013 ###	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 ±039 ±039 ±039 ±032 ±072 ### .321 ±844 ±.872 ### .321 ±.844 .838 ±.001 .692 ±.085 ### .6717 ±23.9 63 .824 ±.003 .790 ±.011 ### ###	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### .499 ±039 ±043 ±072 ### .321 ±.844 8.38 ±001 .692 ±085 ### - 6.717 ±23.9 6.3 .790 ±011 ### ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±.224 .073 ±.002 .0888 ±024 ### 3.906 ±9.56 2 .104 ±004 .111 ±017 ###	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 020\\ 1.608\\ \pm 247\\ 1.454\\ \pm 550\\ \end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .014\\ .701\\ \pm .014\\ .627\\ \pm .014\\ .627\\ \pm .014\\ .627\\ \pm .014\\ .639\\ \pm .057\\ .824\\ \pm .014\\ .639\\ \pm .014\\ .247\\ \pm .006\\ .239\\ \pm .014\\ .626\\ \pm .211\\ .861\\ \pm .014\\ .351\\ \pm .$	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .097 ±017 ±017 .087 .037 .088 .035 .037 .037 .037 .038 .038 .035 .035 .037 .035 .035 .035 .035 .035 .035 .037 .035 .035 .035 .035 .035 .035 .035 .035	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ .846 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 758 \\ 1.305 \\ \pm 2280 \\ \pm 027 \\ 1.658 \\ \pm 2.280 \\ \pm 027 \\ 1.06 \\ \pm 590 \\ \pm 0.35 \\ \pm 0.35$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 3.44 $\pm 2.73$ 3.72 $\pm 2.49$ 8.32 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 3.32$ $\pm 130$ .131 $\pm 0.11$ .239 $\pm 0.305$ .320 .478 $\pm 2.215$ .248 $\pm 0.08$ .306 $\pm 0.422$ .4049 .366
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.5 0.5		Yes No Yes Yes No Yes No Yes Yes Yes No No	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±071 ### 5.089 ±17.5 24 .814 ±036 .786 ±012 ###	$\begin{array}{r} .497\\ \pm 0.566\\ 5.277\\ \pm 0.811\\ .429\\ \pm 0.429\\ 5.100\\ \pm 1.629\\ .823\\ \pm 0.466\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ $	$\begin{array}{c} 1.008\\ \pm 0.035\\ 1.042\\ \pm 0.027\\ .760\\ \pm 3.00\\ .724\\ \pm 2.92\\ .939\\ \pm 0.49\\ .883\\ \pm 0.42\\ .692\\ \pm 3.96\\ 1.027\\ \pm 1.68\\ 1.140\\ \pm 0.03\\ 1.109\\ \pm 0.31\\ .520\\ \pm 4.33\\ .872\\ \pm 2.57\\ 1.127\\ \pm 0.06\\ 1.136\\ \pm 0.06\\ .480\\ \pm 0.06\\ .480\\ \pm 0.06\\ .4308\\ .497\\ \pm 3.28\\ \end{array}$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ### .706 ±.683 .302 ±.092 ### .706 ±.683 .302 ±.092 ### .706 ±.683 .302 ±.054 ### ### .2589 ±.23.8 26 .303 ±.003 ±.003 ±.003 ### ### .7589 ±.23.8 26 .303 ±.003 ±.003 ### ### .7589 ±.23.8 .265 .303 ±.003 ±.003 ### .7589 ±.23.8 .265 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .303 ±.003 .305 .257 .303 .305 .305 .305 .305 .305 .305 .305	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ### .6717 ±23.9 63 .824 ±003 .790 ±011 ###	.000 ±000 .000 ±000 .000 ±000 ±000 ±000	.722 ±.034 .607 ±.038 ### .499 ±.039 .443 ±.072 ### .321 ±.844 .838 ±.001 .692 ±.085 ### .6717 ±23.9 63 .824 ±.003 .790 ±.011 ### ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±091 ### .184 ±224 .073 ±002 .0888 ±024 ### 3.906 ±9.56 2 .104 ±004 ±19.56 2 .104 ±007 ### ### .104 ±017 .101 ±017 .201 .201 .201 .201 .201 .201 .201 .201	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.557\\ 1.484\\ \pm 375\\ 2.190\\ \pm 001\\ \pm 001\\ \pm 001\\ \pm 011\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.525\\ 1.$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .114\\ .701\\ \pm .164\\ .627\\ \pm .164\\ .627\\ .820\\ \pm .057\\ .824\\ \pm .057\\ .824\\ \pm .057\\ .824\\ \pm .014\\ .315\\ \pm .188\\ .626\\ \pm .211\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ \pm .211\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ \pm .211\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ \pm .211\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ \pm .211\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ \pm .012\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ .211\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ .211\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ .211\\ .338\\ .2125\\ .338\\ .2125\\ .338\\ .2125\\ .338\\ .2125\\ .338\\ .2125\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338\\ .338$	.175 ±022 .301 ±037 ### 517 ±087 .579 ±123 ### .451 ±946 .038 ±003 .088 ±035 ### 14.36 1 ±41.4 94 .073 ±002 .097 ±015 ###	$\begin{array}{c} 2.292\\ \pm 216\\ 1.597\\ \pm .144\\ .879\\ \pm .426\\ .846\\ \pm .425\\ 1.863\\ \pm .214\\ 1.611\\ \pm .288\\ .873\\ \pm .214\\ 1.611\\ \pm .288\\ .873\\ \pm .214\\ 1.611\\ \pm .280\\ \pm .025\\ \pm .263\\ .631\\ \pm .699\\ 1.106\\ \pm .590\\ 2.270\\ \pm .048\\ \pm .029\\ \pm .035\\ \pm .079\\ .509\\ \pm .469\\ \pm .029\\ \pm .0$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 3.44 $\pm 2.73$ 3.72 $\pm 2.49$ 8.32 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 3.16$ .349 $\pm 130$ .131 $\pm 0.01$ .239 $\pm 0.86$ .305 $\pm 3.200$ 4.78 $\pm 2.15$ $\pm 0.48$ $\pm 0.08$ .306 $\pm 0.42$ 406 $\pm 3.48$
		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.5 0.5		Yes No No Yes No Yes No Yes Yes No Yes No Yes	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.1		.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .692 ±071 .692 ±071 .692 ±071 .692 ±071 .829 ±071 .692 ±071 .814 ±03 .786 £012 ### ###	$\begin{array}{r} .497\\ \pm 0566\\ 5277\\ \pm 0811\\ .429\\ \pm 0812\\ \pm 0812\\ \pm 0822\\ \pm 0822\\ \pm 0922\\ \pm 0922$	$\begin{array}{c} 1.008\\ \pm 0.35\\ 1.042\\ \pm 0.27\\ .760\\ \pm 3.30\\ .724\\ \pm 292\\ .939\\ \pm 0.49\\ .883\\ \pm 0.42\\ .692\\ \pm 3.96\\ 1.027\\ \pm 1.68\\ 1.140\\ \pm 0.03\\ 1.119\\ \pm 0.31\\ .520\\ \pm 4.33\\ .872\\ \pm 2.57\\ 1.127\\ \pm 0.66\\ 1.136\\ 1.006\\ .480\\ \pm 3.08\\ .497\\ \pm 3.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03\\ 1.03$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ### .706 ±.683 .302 ±.092 ### .706 ±.683 .302 ±.054 ### 255	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ±085 ±085 .790 63 .824 ±003 .790 ±011 ### ###	.000 ±000 ±000 ±000 ±000 ±000 ±000 ±000	.722 ±.034 .607 ±.038 ### .499 ±.039 .443 ±.072 ### .321 ±.844 .838 ±.001 .6925 ±.085 ### .6.717 ±.23.9 6.717 ±.23.9 6.3 .824 ±.003 .790 ±.011 ### ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±091 ### .184 ±224 .073 ±002 .088 ±024 ### 3.906 ±9.56 2 .104 ±0.04 .111 ±017 ### ****	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.557\\ \pm 1.854\\ \pm 557\\ 1.484\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.280\\ \pm 467\\ 1.280\\ \pm 467\\ 1.280\\ \pm 467\\ 1.280\\ \pm 405\\ \pm 091\\ 1.525\\ \pm 300\\ 1.268\\ \pm 405\\ \pm .301\\ 1.525\\ \pm .300\\ 1.268\\ \pm 405\\ 2.437\\ \end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .114\\ .701\\ \pm .164\\ .627\\ \pm .164\\ .627\\ \pm .164\\ .627\\ \pm .164\\ .629\\ \pm .057\\ \pm .046\\ .239\\ \pm .057\\ \pm .014\\ .315\\ \pm .014\\ .338\\ \pm .014\\ .351\\ \pm .014\\ .3017\\ .962\\ \pm .211\\ .933\\ \pm .014\\ .5646\end{array}$	.175 ±022 .301 ±037 ### *** 517 ±087 .579 ±123 ### .451 ±946 .038 ±003 .088 ±035 ### 14.36 1 ±41.4 .94 .073 ±015 ### *** ***	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ .846 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 2280 \\ \pm 027 \\ 1.658 \\ \pm 263 \\ .631 \\ \pm 699 \\ 1.106 \\ \pm 590 \\ 1.106 \\ \pm 590 \\ 2.270 \\ \pm 048 \\ 2.035 \\ \pm 079 \\ .509 \\ \pm 079 \\ .509 \\ \pm 469 \\ .635 \\ \pm 628 \\ 2.520 \end{array}$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 3.44 $\pm 2.73$ 3.72 $\pm 2.49$ 8.32 $\pm 0.46$ 6.51 $\pm 122$ .387 $\pm 3.16$ 3.49 $\pm 130$ .131 $\pm 0.11$ 2.39 $\pm 0.86$ .305 $\pm 3.200$ .478 $\pm 2.15$ $\pm 0.46$ $\pm 0.42$ .406 $\pm 0.439$ .533
		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.5 0.5 0.5		Yes No No Yes No Yes No Yes No Yes No Yes	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±071 .692 ±071 .814 ±075 24 .814 ±003 .786 ±012 ### ###	$\begin{array}{r} .497\\ \pm .056\\ 5.277\\ \pm .081\\ .429\\ \pm .081\\ .429\\ 510\\ \pm .046\\ .703\\ \pm .032\\ .537\\ \pm .009\\ .2682\\ .459\\ \pm .032\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .450\\ .4$	$\begin{array}{c} 1.008\\ \pm 0.35\\ 1.042\\ \pm 0.27\\ .760\\ \pm 3.30\\ .724\\ \pm .929\\ .833\\ \pm .042\\ .692\\ \pm .396\\ 1.027\\ \pm .168\\ 1.140\\ \pm .003\\ 1.119\\ \pm .031\\ .520\\ \pm .433\\ .872\\ \pm .257\\ 1.127\\ \pm .006\\ 1.136\\ \pm .006\\ \pm .008\\ .480\\ \pm .308\\ .497\\ \pm .328\\ 1.003\\ \pm .006\\ \end{array}$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ### .706 ±.683 .302 ±.092 ### .706 ±.683 .302 ±.092 ### .706 ±.683 .302 ±.092 ### .706 ±.683 .302 ±.092 ### .255 ±.005	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 *## .6.717 ±23.9 63 .824 ±003 .790 ±011 ### ###	.000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000	.722 ±.034 .607 ±.038 ### .499 ±.039 .443 ±.072 ### .321 ±.844 .838 ±.001 .692 ±.085 ### .6.717 ±23.9 .63 .824 ±.003 .790 ±.011 ### ### .749 ±.001	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 .088 ±024 .088 ±024 .088 ±024 .088 ±026 ±9.56 2 .104 ±004 .111 ±017 ### ****	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 507\\ 1.484\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.454\\ \pm 550\\ 2.176\\ \pm 043\\ 2.076\\ \pm 091\\ 1.525\\ \pm 300\\ 1.268\\ \pm 407\\ \pm .017\\ \end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .014\\ .701\\ \pm .014\\ .701\\ \pm .014\\ .627\\ \pm .014\\ .639\\ \pm .057\\ \pm .014\\ .315\\ \pm .014\\ .247\\ \pm .006\\ .239\\ \pm .061\\ .247\\ \pm .006\\ .239\\ \pm .061\\ .261\\ \pm .014\\ .338\\ \pm .014\\ .3017\\ \pm .047\\ .962\\ \pm .011\\ .256\\ .646\\ \pm .003\\ \end{array}$	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±035 .088 ±035 .088 ±035 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088 ±033 .088	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ .846 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 758 \\ \pm .758 \\ \pm .280 \\ \pm .027 \\ 1.658 \\ \pm .280 \\ \pm .027 \\ 1.658 \\ \pm .280 \\ \pm .027 \\ 1.658 \\ \pm .631 \\ \pm .590 \\ \pm .027 \\ 1.658 \\ \pm .628 \\ \pm .500 \\ \pm .031 \\$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 3.44 $\pm 2.73$ 3.72 $\pm 2.49$ 8.32 $\pm 0.46$ 6.51 $\pm 122$ .387 $\pm 3.16$ 3.49 $\pm 130$ .131 $\pm 0.11$ 2.39 $\pm 0.86$ $\pm .305$ $\pm .200$ 4.78 $\pm 2.15$ $\pm 0.46$ $\pm 0.402$ 4.062 $\pm 0.402$ 4.061 $\pm 0.303$ $\pm 0.111$
		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.5 0.5 0.5		Yes No No Yes No Yes No Yes No Yes Yes Yes	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.		.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .4060 ±621 .829 ±001 .692 ±071 ### 5.089 ±17.5 24 .814 ±003 .786 ±012 ### ### *** *** *** *** *** *** *** **	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ 429\\ 510\\ \pm 249\\ 510\\ \pm 169\\ 823\\ \pm 046\\ 703\\ \pm 112\\ 540\\ \pm 046\\ 703\\ \pm 112\\ 540\\ \pm 046\\ 703\\ \pm 112\\ 540\\ \pm 049\\ 2682\\ 459\\ \pm 343\\ 597\\ \pm 207\\ 248\\ \pm 041\\ 318\\ \pm 052\\ \pm 247\\ 622\\ \pm 323\\ 523\\ \pm 011\\ 318\\ \pm 052\\ \pm 247\\ 622\\ \pm 323\\ 523\\ \pm 010\\ 583\\ \pm 052\\ \pm 010\\ 583\\ \pm 000\\ 58$	$\begin{array}{c} 1.008\\ \pm 035\\ 1.042\\ \pm 027\\ .760\\ \pm 330\\ .724\\ \pm 292\\ .939\\ \pm 049\\ \pm 042\\ .692\\ \pm 396\\ 1.027\\ \pm 168\\ 1.140\\ \pm 003\\ 1.119\\ \pm 031\\ 1.119\\ \pm 033\\ \pm 066\\ 1.136\\ \pm 006\\ \pm 308\\ .497\\ \pm 328\\ 1.003\\ \pm 006\\ 1.056\\ \end{array}$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ### .706 ±.683 .302 ±.004 .427 ±.054 *## 7.589 ±23.8 26 .303 ±.008 .346 ±.013 ### *## *## *** *** *** *** *** *** **	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ### - 6.717 ±23.9 63 .824 ±003 .790 ±031 ### ### .749 ±001 ±031 .723	.000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000 ±000 .000	.722 ±.034 .607 ±.038 ### .499 ±.039 ±.039 ±.039 ±.039 ±.039 ±.039 ±.039 ±.039 ±.039 ±.031 ±.844 ±.838 ±.001 .692 ±.085 ### - 6.717 ±23.9 63 .824 ±.003 .790 ±.011 ### ±.001 ±.723	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 .023 .088 ±024 .044 ±9.56 ±9.56 2 .104 ±0.07 ### *** *** *** *** *** *** *** *** **	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 375\\ 2.190\\ \pm 020\\ 1.628\\ \pm 247\\ 1.454\\ \pm 550\\ 2.176\\ \pm 043\\ 2.005\\ \pm 091\\ 1.525\\ \pm 300\\ 1.268\\ \pm 405\\ 2.437\\ \pm 017\\ 2.110\\ \end{array}$	$\begin{array}{c} .689\\ \pm090\\ .617\\ \pm114\\ .701\\ \pm164\\ .627\\ \pm145\\ .824\\ \pm039\\ \pm057\\ .824\\ \pm104\\ .639\\ \pm2315\\ .824\\ \pm104\\ .639\\ \pm2315\\ .824\\ \pm104\\ .305\\ \pm128\\ .626\\ \pm211\\ .338\\ \pm014\\ .351\\ \pm044\\ .351\\ \pm044\\ .351\\ \pm044\\ .351\\ \pm044\\ .55\\ .6403\\ .655\\ \end{array}$	.175 ±022 .301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003 .088 ±003 .088 ±035 ### 14.36 1 ±41.4 .94 .073 ±002 .097 ±015 ### .156 ±003 .209	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ .846 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 200 \\ \pm 027 \\ 1.658 \\ \pm .631 \\ \pm .699 \\ 1.106 \\ \pm .590 \\ 2.270 \\ \pm .635 \\ \pm .635 \\ \pm .079 \\ .509 \\ \pm .635 \\ \pm .079 \\ .509 \\ \pm .628 \\ 2.520 \\ \pm .031 \\ 2.110 \end{array}$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 344 $\pm 273$ 372 $\pm 249$ .342 $\pm 0.46$ .511 $\pm 122$ .387 $\pm 316$ .349 $\pm 130$ .131 $\pm 0.111$ .239 $\pm 320$ .478 $\pm 2.15$ $\pm 2.48$ $\pm 0.08$ .305 $\pm 320$ .478 $\pm 2.15$ $\pm 2.48$ $\pm 0.08$ .305 $\pm 320$ .478 $\pm 2.15$ $\pm 0.46$ $\pm 0.46$ $\pm 3.49$ .366 $\pm 3.49$ .366 $\pm 3.48$ .533 $\pm 0.11$ .578
		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.5 0.5 0.5		Yes No No Yes No Yes No Yes No Yes Yes Yes	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.		.696 ±036 594 ±034 ### .484 ±037 .444 ±060 ### .4060 ### .4060 ±621 .829 ±001 .692 ±001 .692 ±001 .692 ±001 .829 ±175 24 .814 ±003 .7866 ±012 ### ### .738 ±001 717 ±017	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ 429\\ \pm 081\\ 429\\ 510\\ \pm 169\\ 823\\ \pm 046\\ 703\\ \pm 112\\ 540\\ \pm 046\\ 703\\ \pm 112\\ 540\\ \pm 049\\ 268\\ \pm 049\\ \pm 389\\ \pm 343\\ 597\\ \pm 207\\ 248\\ \pm 011\\ 318\\ \pm 030\\ 672\\ \pm 247\\ 523\\ \pm 011\\ 318\\ \pm 030\\ 672\\ \pm 247\\ 523\\ \pm 011\\ 318\\ \pm 030\\ 672\\ \pm 247\\ 523\\ \pm 011\\ 318\\ \pm 028\\ \pm 028$	$\begin{array}{c} 1.008\\ \pm 0.35\\ 1.042\\ \pm 0.035\\ 1.042\\ \pm 0.07\\ .760\\ \pm 3.30\\ .724\\ \pm 292\\ .939\\ \pm 0.49\\ .883\\ \pm 0.42\\ .692\\ \pm 3.96\\ 1.027\\ \pm 0.48\\ 1.003\\ \pm 0.03\\ 1.119\\ \pm 0.03\\ 1.119\\ \pm 0.03\\ 1.119\\ \pm 0.03\\ 1.056\\ \pm 0.06\\ 1.136\\ \pm 0.06\\ \pm 3.08\\ \pm 3$	287 ±038 .434 ±031 ### .439 ±080 .440 ±092 ### .706 ±683 .302 ±004 .427 ±054 ### 7.589 ±23.8 26 .303 ±008 .346 ±013 ### ### 255 ±008 .346	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 ±039 ±033 ±072 ### .321 ±844 .838 ±001 .692 ±085 ### .6717 ±23.9 6.717 ±23.9 6.3 .824 ±003 .790 ±011 ### ### .749 ±001 .723 ±023	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±034 .607 ±038 ### .499 ±039 ±039 ±039 ±039 ±039 ±039 ±037 ±363 .824 ±001 .692 ±085 ### .6717 ±23.9 .6717 ±23.9 .63.824 ±003 .790 ±011 ### .749 ±.003 .790 ±.011 ###	.289 ±069 .301 ±039 ### .580 ±057 .553 ±091 ### .184 ±224 .073 ±002 .088 ±024 ### 3.906 ±9.56 2 .104 ±004 .1111 ±017 ### ### \$215 ±001 .234 ±016	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 290\\ 1.554\\ \pm 375\\ 2.190\\ \pm 020\\ 1.608\\ \pm 247\\ 1.454\\ \pm 550\\ 2.176\\ \pm 043\\ 2.005\\ \pm 091\\ 1.525\\ \pm 300\\ 1.268\\ \pm 405\\ 2.437\\ \pm 017\\ 2.110\\ \pm 105\\ \end{array}$	$\begin{array}{c} .689\\ \pm090\\ .617\\ \pm114\\ .701\\ \pm164\\ .627\\ \pm145\\ .824\\ \pm006\\ \pm057\\ .824\\ \pm104\\ .639\\ \pm291\\ .315\\ \pm118\\ .247\\ \pm006\\ .239\\ \pm014\\ .351\\ \pm188\\ .626\\ \pm211\\ .338\\ \pm014\\ .351\\ \pm014\\ .351\\ \pm014\\ .555\\ \pm025\\ \end{array}$	.175 ±022 301 ±037 ### 517 ±087 579 ±123 ### .451 ±946 .038 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .097 ±015 .097 ±015 .097 ±015 .097 ±015 .097 ±015 .097 ±015 .097 ±015 .097 ±015 .097 ±015 .097 .003 .088 ±003 .088 ±003 .088 ±003 .088 ±003 .097 ±015 .097 .097 .097 .003 .003 .003 .003 .003 .003 .003 .00	$\begin{array}{c} 2.292 \\ \pm 216 \\ 1.597 \\ \pm 144 \\ .879 \\ \pm 426 \\ .846 \\ \pm 425 \\ 1.863 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 214 \\ 1.611 \\ \pm 288 \\ .873 \\ \pm 200 \\ \pm 027 \\ 1.658 \\ \pm 2.80 \\ \pm 027 \\ 1.658 \\ \pm 2.631 \\ \pm 699 \\ 1.106 \\ \pm 590 \\ 2.270 \\ \pm 048 \\ 2.035 \\ \pm 0.035 \\$	500 $\pm 0.67$ 4.78 $\pm 0.89$ 3.44 $\pm 2.73$ 3.72 $\pm 2.49$ .332 $\pm 0.46$ .651 $\pm 122$ .387 $\pm 3.16$ .349 $\pm 130$ .131 $\pm 0.11$ 2.39 $\pm 0.86$ $\pm 3.49$ $\pm 0.46$ $\pm 3.49$ $\pm 0.46$ $\pm 3.49$ $\pm 0.46$ $\pm 3.49$ $\pm 0.46$ $\pm 3.48$ $\pm 0.08$ -3.06 $\pm 0.42$ .406 $\pm 3.49$ -3.66 $\pm 3.48$ 5.78 $\pm 0.36$
		0.5 0.5 1 1 1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.5 0.5 0.5 0.5 0.25		Yes No No Yes No Yes No Yes No Yes Yes No Yes No Yes No	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.1 0.01 0.1 0.01 0.1 0.01 0.1 0.1		.696 ±036 594 ±034 ### ### 484 ±037 .444 ±060 ### .406 ±621 .829 ±001 .692 ±071 ### 5.089 ±17.5 24 .814 ±002 #17.5 24 .814 ±012 .786 ±012 ### ### ### \$	$\begin{array}{r} .497\\ \pm 056\\ 527\\ \pm 081\\ .429\\ \pm 081\\ .429\\ \pm 082\\ .510\\ \pm 046\\ .703\\ \pm 028\\ .106\\ .703\\ \pm 028\\ .106\\ .703\\ \pm 028\\ .106\\ .703\\ \pm 028\\ .106\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703\\ .703$ .703\\ .703\\ .703 .703\\ .703\\ .703 .703\\ .703\\ .703 .703\\ .703 .703\\ .703 .703 .703 .703 .703 .703 .703 .703 .703 .703 .703 .703 .703 .703 .703 .70	$\begin{array}{c} 1.008\\ \pm 0.035\\ 1.042\\ \pm 0.027\\ .760\\ \pm 3.00\\ .724\\ \pm 2.92\\ .939\\ \pm 0.49\\ .883\\ \pm 0.42\\ .692\\ \pm 3.96\\ 1.027\\ \pm 1.68\\ 1.140\\ \pm 0.03\\ 1.027\\ \pm 1.68\\ 1.027\\ \pm 1.68\\ 1.027\\ \pm 1.68\\ 1.027\\ \pm 1.03\\ 1.027\\ \pm 2.57\\ 1.127\\ \pm 0.06\\ 1.036\\ \pm 0.06\\ 1.056\\ \pm 0.014\\ 1.006\\ \end{array}$	287 ±.038 .434 ±.031 ### .439 ±.080 .440 ±.092 ### .706 ±.683 .302 ±.092 ### .706 ±.683 .302 ±.092 ### .706 ±.683 .302 ±.054 ### 255 ±.005 .303 ±.008 .440 ±.092 ### .7589 ±.23.8 26 .303 ±.008 .440 .440 ±.092 ### .7589 ±.23.8 .303 ±.008 .440 .440 ±.092 ### .7589 ±.23.8 .265 .403 .405 .405 .405 .405 .405 .405 .405 .405	.722 ±034 .607 ±038 ### .499 ±039 .443 ±072 ### .321 ±844 .838 ±001 .692 ±085 ### .6717 ±23.9 63 .824 ±003 .790 ±011 ### ### ### .749 ±011 .723 ±023 .403	.000 ±000 .000 ±000 ±000 ±000 ±000 ±000	.722 ±.034 .607 ±.038 ### .499 ±.039 ±.043 ±.072 ### .321 ±.844 8.38 ±.001 .692 ±.085 ### .6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.717 ±23.9 6.713 ±.023 ±.023 ±.023 ±.023	289 ±069 301 ±039 ### 580 ±057 .553 ±091 ### .184 ±224 .073 ±007 .588 ±024 ### 3.906 ±9.56 2 .104 ±004 .111 ±017 ### ### \$200 2 .104 ±004 .111 ±017 ### \$200 2 .057	$\begin{array}{c} 2.110\\ \pm 219\\ 1.620\\ \pm 200\\ \pm 200\\ 1.077\\ \pm 261\\ 1.001\\ \pm 307\\ 1.774\\ \pm 207\\ 1.854\\ \pm 290\\ 1.554\\ \pm 290\\ 1.557\\ 1.484\\ \pm 375\\ 2.190\\ \pm 008\\ \pm 247\\ 1.484\\ \pm 550\\ 2.176\\ \pm 043\\ 2.005\\ \pm 091\\ 1.525\\ \pm 300\\ 1.268\\ \pm 405\\ 2.437\\ \pm 017\\ 2.110\\ 1.045\\ \end{array}$	$\begin{array}{c} .689\\ \pm .090\\ .617\\ \pm .174\\ .701\\ \pm .164\\ .701\\ \pm .164\\ .627\\ .820\\ \pm .057\\ .824\\ \pm .057\\ .824\\ \pm .057\\ .824\\ \pm .037\\ .826\\ \pm .037\\ .338\\ \pm .014\\ .351\\ \pm .047\\ .962\\ \pm .014\\ .351\\ \pm .047\\ .962\\ \pm .014\\ .351\\ \pm .047\\ .962\\ \pm .015\\ .646\\ \pm .003\\ .655\\ \pm .025\\ .079\end{array}$	.175 ±022 .301 ±037 ### 517 ±087 .579 ±123 ### .451 ±946 .038 ±003 .088 ±035 ### 14.36 1 ±41.4 94 .073 ±015 ### ±005 ### 14.36 1 ±015 ###	$\begin{array}{c} 2.292\\ \pm 216\\ 1.597\\ \pm .144\\ .879\\ \pm .426\\ .846\\ \pm .425\\ 1.863\\ \pm .214\\ 1.611\\ \pm .288\\ .873\\ \pm .305\\ \pm .485\\ 2.280\\ \pm .027\\ 1.658\\ \pm .263\\ .631\\ \pm .699\\ 1.106\\ \pm .590\\ 2.270\\ \pm .048\\ 2.035\\ \pm .079\\ .509\\ \pm .469\\ 1.106\\ \pm .590\\ 2.270\\ \pm .048\\ 2.035\\ \pm .079\\ .635\\ \pm .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ .029\\ $	$\begin{array}{c} 500\\ \pm 0.67\\ .478\\ \pm 0.89\\ .344\\ \pm 273\\ .372\\ \pm 249\\ .832\\ \pm 0.46\\ .651\\ \pm 122\\ .387\\ \pm 316\\ .349\\ \pm 130\\ .131\\ \pm 0.11\\ .239\\ \pm 0.86\\ .305\\ \pm 320\\ .478\\ \pm 0.08\\ .305\\ \pm 215\\ .248\\ \pm 0.08\\ .306\\ \pm 0.42\\ .406\\ \pm 349\\ .306\\ \pm 0.42\\ .406\\ \pm 0.48\\ .533\\ \pm 0.11\\ .578\\ \pm 0.36\\ .111\\ \end{array}$

0	0	0.25	0	Yes	1	0.05	0	.580	.424	1.079	.479	.601	.000	.601	.176	1.365	.373	.184	1.495	.401
								±.060	±0%	±033	±059	±.090	±.000	±090	±045	±.327	±169	±.036	±253	±.0%
0	0	0.5	0	No	1	0.05	0	***	.362	.949	###	***	.000	R##	1.493	.979	.187	***	1.070	.376
									±219	±159			±000		±6.06	±069	±181		±315	±.223
															7					
0	0	0.5	0	Yes	1	0.05	0	.644	.517	1.029	.375	.654	.000	.654	.288	1.874	.659	.246	1.818	.474
								±057	±090	±.028	±.061	±.067	±.000	±.067	±042	±.222	±.061	±.057	±.290	±103
0	0	1	0	No	1	0.05	0	***	.523	.828	***	###	.000	***	###	1.075	.636	***	1.005	.380
									±140	±208			±000			±.267	±170		±394	±216
0	0	1	0	Yes	1	0.05	0	.481	.722	.887	.397	.490	.000	.490	.555	1.831	.855	.461	1.825	.690
	-	-		•	-		_	±.044	+ 126	+072	+.093	+.052	+.000	+.052	+073	+ 212	$\pm .072$	+ 122	+ 345	+.157
0	n	01	٥	No	0	0.05	0		465	748	44 23		_000		14 35	1 303	537	03 33	890	302
Ĩ	Ŭ		v		Ū	0.00	Ŭ	31 01	+ 243	+ 185	0	43 49	+ 000	43 40	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	+ 611	+ 223	5	+ 748	+ 224
								5	11.10	200	+134	1	7.000	1	+35 R	1.011		+380		
								+101			874	+128		+120	20			202		
								552			020	873		972	~			275		
<u>م</u>	0	0.1	٥	Va	٥	0.05	0	912	140	1 155	224	601	000	971	070	2 040	2.2	040	2 080	142
	U	0.1	U	165	U	0.05	0	.013	107	1.155	1010	1.000	.000	1021	.070	2.047	.202	1.009	1.007	.103
•	•	~ ~	~	NT.	~	0.0-		1000	1020	TUDA	T.010	1.000	±000	1,000	TOID	1.0//	±034	1.000	1,100	102/
U	0	0.2	U	NO	U	0.05	U	****		.836	***	***	.000	***	***	1.725	.0.34	***	1.137	.499
					-				±2//	±307			±.000			±444	±253		2.658	±.293
0	0	0.2	0	Yes	0	0.05	0	.806	.274	1.136	.322	.813	.000	.813	.104	2.135	.337	.082	2.139	.270
	_				-			±.006	±.024	±005	±011	±.008	±.000	±.008	±006	±.061	±.018	±008	±.080	±027
0	0	0.5	0	No	0	0.05	0	###	.715	.516	***	***	.000	***	###	1.375	.958	***	.741	.563
									±268	±.298			±.000			±496	±1%		±.622	±346
0	0	0.5	0	Yes	0	0.05	0	.727	.581	1.042	.307	.735	.000	.735	.224	2.270	.650	.197	2.231	.587
								±.009	±.031	±022	±031	±.012	±.000	±.012	±010	±.149	±.020	±.023	±.155	±.033

5v	Coll	Est	Na	Crash	SIVI	SIPI	Rev	PC	GP	Ja.C.	Prof.	SIY	P	SIP	SIY	P	SIPT
	ude		••••		1>10	1>10	1>10	1>10	1>10	1>10	1>10	100	⊷ <u>.</u>	120	1>20	1>20	1>20
	No	No	10	<u> </u>	005	_006	1000	600	400		400	005	1079	.197	.005	1.000	.006
Ĩ	1.0		•••	1 1	+ 001	+ 001	+ 000	+.001	+.000	+.000	+.000	±.001	±.000	±.001	±.001	±.001	±.001
0	No	Yes	10	0	017	031	998	590	408	000	408	121	117	.174	.005	1.001	.006
⁻	1		•••		+.002	+.003	+ 000	+.001	+.001	±.000	±001	±.001	± 002	±.003	±.001	±.001	±.001
0	Yes	No	10		005	022	823	745	577		- 577	005	1.892	296	005	2 011	023
Ĭ	1.5	140		Ĭ	+ 001	+ 003	+ 001	+ 001	+ 000	+ 000	+ 000	+ 001	+.003	+.002	+.001	±.005	±.004
0	Yes	Ves	10		041	154	840	278	562		562	.067	1511	.153	.014	1.921	.074
-	•			1 1	±.002	_004	+.001	+.002	±001	±.000	±.001	±.001	±.006	±.005	±.002	±.007	±.005
0.1	No	No	10	1 0	.026	.031	1,000	599	401	.000	401	024	1.081	.196	.025	1.002	.030
	• • •	••-		[ -	±.003	±.005	±.002	+.003	±.002	±.000	±.002	±.004	±.002	±.003	±.004	±.006	±.006
0.1	No	Yes	10	1-0	.030	.048	.998	-590	408	.000	408	.125	1,178	.180	.025	1.002	.032
<b>.</b>					+.005	+.007	+ 002	+ 004	+ 002	±.000	+.002	+.007	±009	±016	±005	±.004	±.006
101	Vea	No	10	0	025	114	820	245	575	- 000	575	023	1 804	312	026	2 0 10	119
		140		- T	+ 004	+ 020	+003	+ 003	+ 001	+ 000	+ 001	+ 004	+.017	+ 009	+.005	± 021	±.024
01	Yes	Yes	10		051	191	842	285	557		557	071	1.508	.177	.034	1.882	.148
···				[ ⁻	±.008	±017	+.005	±.008	+.003	±.000	±.003	±.006	±.021	±.025	±.007	±.051	±.027
0.1	No	No	10	1 0	049	062	1,000	599	401	.000	401	.052	1.083	206	049	1.003	.060
···	• • •			1 7	+.006	+.008	+.003	±.005	±.003	±.000	±.003	±007	±.0%	$\pm.008$	±.005	±.007	±.008
0.1	No	Yes	10	2	.052	073	1 001	595	406	000	406	.141	1.174	207	050	1.003	.062
	•			-	±.005	±.010	±.003	±.006	±.004	±.000	±.004	±016	±.020	±.029	±.007	±.006	±.009
01	Yes	Yes	10		073	263	846	207	548	000	548	098	1 507	237	062	1.808	245
	1.00			-	+.025	+.045	+ 015	+ 025	+.011	+.000	+.011	+ 025	±.068	+.052	±.025	±144	±.067
01	Yes	No		<u> </u>	018	215	813	245	-568	000	568	048	1.897	355	048	2.009	221
	,			-	±.005	±.029	+.005	±.004	±.003	±.000	±.003	±.009	±.031	±.025	±.006	±.032	±.032

Clearing-price complex condition, optimal model

Clearing-price complex cordition, behavioral model

al	a2	a3	a0	Disc	Ъ	Sy	Crash	S(Y)	S(P)	Rev.	P.C.	G.P.	In.C.	Prof.	SIYI	P	S(P)	SIY	P	SIP
0	0	0.1	0	No	0	0.01	2	###	1.068	21.24	###	###	.000	###	1520 ###	1.639	.775	###	1.790	1.096
									±.439	8			±.000			±.309	±.430		±.529	±451
										26										
0	0	0.1	0	No	0	0.05	0	###	.655	1.207	***	***	.000	***	1.899	1.401	.394	###	1.560	.699
									±.375	±.656			±.000		±6.13	±.114	±247		±331	±415
0	0	0.1	0	No	0	0.1	0	.173	.340	.922	.443	.480	.000	.480	.090	1.313	.187	.190	1.360	.374
								±.121	±.214	±.031	±047	±030	±.000	±.030	±.043	±055	±110	±147	±.149	±251
0	0	0.1	0	Yes	0	0.01	0	.129	.417	.851	.335	.516	.000. + 000	.516	.082	1.340	.203	.106	1.733	.433
0	0	0.1	0	Yes	0	0.05	0	.097	.290	.881	.370	511	.000	511	.068	1.330	.160	.091	1.541	.310
								±.025	±.101	±.025	±.034	±.012	±000	±.012	±015	±.029	±.045	±025	±153	±.110
0	0	0.1	0	Yes	0	0.1	0	+017	+.071	+ 029	.440	.465	.000	.485	+013	1.287	.142	+023	1.312	+ 082
0	0	0.2	0	No	0	0.01	4	***	1.300	***	###	###	.300	***	###	1.911	1.150	###	2.020	1.252
<u> </u>		- 0.0		Ne	<u>-</u>	0.05			±415	2 205			±.000	444		±.334	±.361		±587	±471
l °	U	9.2	U	INO	U	0.05	1	***	.017 ±.447	±6.22	***	***	.000 ±.000	***	***	1.480 ±.217	±330	***	1.550 ±.475	±487
L										4										
0	0	0.2	0	No	0	0.1	0	25.26	.678	1.282	3.730	- 2 448	.000	- 2 448	1.082	1.330	.375	30.10	1.411	.736
								±77.7	1.520	1	92	±9.83	1000	±9.83	1		1.1.10	±93.4	1.010	
<u> </u>		0.2				0.01		21	(00		220	8		8	150	1.055	204	81	1 944	741
0	U	0.2	U	Yes	0	0.01	0	±032	.688 ±.072	.814 ±007	±.022	.484 ±.017	.000 ±.000	.484 ±017	.150 主013	1.355 ±.028	.384 ±033	.197 ±043	1.844 ±.074	./41 ±094
0	0	0.2	0	Yes	0	0.05	0	.181	.618	.822	.326	.496	.000	.496	.152	1.359	.377	.168	1.850	.642
<b>-</b>		- 02-		- <u>V</u> ~		0.1		±030	±119	±035	±.034	±020	±.000	±.020	±020	±.036	±.050	±039	±.149	±.145
ľ	U	0.2	U	165	U	0.1	Ŭ	±032	±214	±079	±.087	±022	±000	±022	±027	±076	±.097	±.040	±.302	±243
0	0	0.25	0	No	1	0.01	0	.033	.039	.966	.532	.434	.000	.434	.029	1.179	.109	.027	1.077	.035
	0	0.25	0	No	1	0.05	0	±007	±012	±.003	±.005	±.002	±000	±002	±005	1 181	123	±.012	±.007	±020
Ľ	· ·	0.20		140		0.00	Ű	±.020	±.033	±.007	±013	±.007	±000	±.007	±012	±013	±.013	±.026	±.023	±.042
0	0	0.25	0	No	1	0.1	0	.108	.155	.979	.544	.435	.000	.435	.073	1.180	.144	.111	1.090	.167
0	0	0.25	0	Yes	1	0.01	0	220	287	1.005	±024	413	000	413	±025	1.115	.237	223	1.098	.301
								±.052	±.106	±.021	±.031	±.014	±.000	±014	±.018	±030	±.018	±065	±.081	±.139
0	0	0.25	0	Yes	1	0.05	0	.226	.267	1.035	.630	.406	.000	.406	.154	1.108	.225	.238	1.049	.293
0	0	0.25	0	Yes	1	0.1	0	.228	.276	1.035	.625	.410	.000	.410	.168	1.108	.235	.239	1.069	_298
								±.071	±111	±.042	±.050	±.015	±.000	±015	±.040	±.026	±.034	±.081	±.104	±.133
0	0	0.5	0	No	0	0.01	18	###	1.234	***	###	***	000, 000+	***	***	2.122	1.374	***	1.576	1.054
									2072				2.000						8	
0	0	0.5	0	No	0	0.05	7	###	1.041	841.8	###	###	.000	**?#	###	1.624	.973	###	1.334	.844
									I.401	±161			I.000			IIII	I.274		1.304	£415
										3.026										
0	0	0.5	0	No	0	0.1	4	***	1.003 + 361	290.2	###	###	000, 000+	###	***	1.543	.950	***	1.298	.855 ±.498
										±103			2.000							
<u> </u>		05				0.01		E77	500	5.321	790	200	- 000	200	- 434	1 201	407	509	1.020	400
Ľ	U	0.5		162	1	0.01		±.257	±.097	±.145	±.220	±.086	±.000	.500 ±.086	±167	±073	±.067	±297	±.196	±139
0	0	0.5	0	Yes	1	0.05	0	.664	.540	1.173	.762	.411	.000	.411	.367	1.219	.427	.680	1.136	.545
	0	05	0	Yes	1	01	0	±.439	±.165	$\pm .242$	±.290 691	±079 416	±.000	±079	$\pm 131$ 352	±.061	±.058	±426	±.186	±227
	v	0.0			•		Ů	±.090	±.126	±.075	±.092	±.042	±.000	±.042	±.095	±.096	±.084	±103	±144	±.165
0	0	1	0	No	1	0.01	0	###	.310	1.167	###	###	.000	###	.198	1.010	.342	###	1.118	.351
$\vdash_{\overline{o}}$	0	1	0	No	1	0.05	0	###	.322	±.402	###	***	±.000	***	2.958	1.034	.379	N##	1.112	.344
	-	•	_		-				±407				±.000		±12.4	±.087	±.174		±.354	±.418
			0	No		01		51 27	400	3.016	11 08		- 000		93	1 031	370	20.05	1 200	561
ľ	U		U	140	•	0.1		91.27	±425	±6.37	7	8.071	±.000	8.071	40.04	1.051 £.075	±.132	1	±.354	±.481
1								±166.		7	±36.4	±30.0		±30.0	±180.			±109.		
0	0		0	Yes	1	0.01		2 733	.911	1.547	40	.056	000	.054	953	1,201	758	2.986	1,309	- 977
Ĭ	5	•	5		•			±2.90	±.206	±.764	±1.24	±.535	±000	±.535	±1.06	±101	±113	±3.42	±.362	±275
$\vdash$			0	V~~	- 1	0.05	<u> </u>	2	014	2 500	2 770	220	- 000	220	8	1 2/2	741	6 4 20	1 244	0/5
"	U	1	U	162	1	0.00		±18.2	±140	±5.54	±7.38	220 ±1.84	±.000	±1.84	±572	±.063	±.083	±19.2	±.246	±190
								43		6	0	5		5	L			78		]

0	0	1	0	Yes	1	0.1	0	1.999 ±1.99 2	.900 ±.158	1.467 ±936	1.278 ±1.23 4	.190 ±.331	.000. ±.000	.190 ±331	1.160 ±.965	1.283 ±.061	.772 ±084	2.087 ±2.19 7	1.332 ±266	.899 ±217
0	0.1	0	1	No	1	0.01	U	#11#	1.114 ±.497	12.45 2 ±43.9	1:11	***	نىن. ±000	***	###	1.828 ±.423	.972 ±489		2.111 ±468	1.077 ±.506
0	0.1	0 _	1	No	1	0.05	0	.084	.306	.826	.280	.547	.000	.547	.095	1.415	.176	.045	1.995	211
0	0.1	0	1	No	1	0.1	0	.084	.306	.828	.283	.545	.000	.545	.095	1.416	.189	.047	1.969	.226
0	0.1	0	1	Yes	1	0.01	0	±013	±.046	.840	±014 .311	±.006	000 000	±.006	±010 .094	1.357	±037	±014	1.847	±.060
0	0.1	0	1	Yes	1	0.05	0	±014 .101	±.027 .345	±.010 .828	±019 .289	±010 .539	±000 .000	±.010 .539	±.009	±.020 1.390	±.026 .177	±.014 .064	±.098 1.953	±.050 .286
0	0.1	0	1	Yes	1	0.1	0	±.013 .104	±.037 .355	±.008 .827	±.015 _291	±.008 .537	±.000	±.008 .537	±.007 .092	±.025 1.389	±030 .176	±016 .072	±079 1.944	±.066 .309
0	0.25	<u></u>	1	No	1	0.01	0	±016	±.040 1.147	±.011 868.5	±019	±.009	±.000	±.009	±.010	±.046 2.166	±.039 1.247	±017 ###	±.094 2.496	±.067
									±.460	99 ±257 3.545			±.000			±.256	±.309		±.302	±.503
0	0.25	0	1	No	1	0.05	0	###	.783 ±.441	351.2 48	***	***	.000 ±.000	***	***	1.658 ±.310	.759 ±.360	***	2.177 ±.257	.675 ±484
										±156 5.734										
0	0.25	0	1	No	1	0.1	0	.088 ±.035	.398 ±.096	.776 ±.016	.236 ±.015	.540 ±014	.000. ±.000	.540 1.014	.188 ±.030	1.521 ±.090	.412 ±107	.047 ±.021	2.250 ±.047	.254 ±118
0	0.25	0	1	Yes	1	0.01	0	.210 ±.067	.688 ±116	.779	.296 ±.051	.483 ±.033	.000 + 000	.483 +033	.233 ±034	1.398	.497	.154 ±.062	2.061 ± 189	.658 ±.164
0	0.25	0	1	Yes	1	0.05	0	.147	.577	.769	.258	.511	.000	.511	.220	1.435	.459	.100	2.202	.500
0	0.25	0	1	Yes	1	0.1	0	.132	.531	.769	.251	.518	.000	.518	.214	1.471	.435	.104	2.208	.475
0	0.5	0	1	No	1	0.01	0	.114	.531	.715	±.023	±.021	£.000	±.021	±022	1.833	±.064	.111	£.092 2.290	£105
0	0.5	0	1	No	1	0.05	0	±049 ###	±140 .814	±.029	±.008	±.030	±000 .000	±030	±.007	±.037 1.879	±.038 .940	±.061 ###	±.053 2.258	±.188 .791
0	0.5	0	1	No	1	0.1	0	.497	±.473 .741	.703	.381	.322	<u>±000</u> .000	.322	.928	±.192 1.716	±298 .832	.253	±.216 2.211	±493 .691
	05			Ves		0.01	0	±1.26 4 431	±.421	±057	±.520	±563	±000	±563	±2.05 9 509	±.171	±266	±.483	±.115	±425
	0.5			Var	• •	0.05		±150	±154	±.059	±.098	±.066	±.000	±066	±.100	±.075	±074	±.157	±.283	±.207
	0.5		•	165		0.00	0	±.123	±122	±.042	±.064	±049	±.000	±.049	±111	±.095	±080	±.079	±210	±144
	0.5	0	1			0.1	0	±172	.840 ±203	.698 ±038	.267 ±.088	.431 ±081	.000 ±.000	.431 ±.081	.423 ±134	±110	./30 ±103	.233 ±.083	±.147	.838 ±.208
0	1	0	1	No	1	0.01	0	***	1.623 ±232	###	***	###	.000. ±000	***	***	1.843 ±135	1.340 ±.205	***	2.225 ±472	1.668 ±_212
0	1	0	1	No	1	0.05	0	***	1.245 ±244	51.79 9	832.1 19	- 780.3	.000 ±.000	- 780.3	***	1.728 ±.089	1.106 ±.161	708.7 23	2.124 ±163	1.279 ±.257
										<del>±228</del> . 871	±371 9.592	20 ±349 0.721		20 ±349 0.721				±316 7.411		
0	1	0	1	No	1	0.1	0	2.661 ±9.79	1.090 ±.196	.754 ±.366	.901 ±2.63	148 ±2.26	.000. ±.000	148 ±2.26	.867 ±.092	1.687 ±.072	1.002 ±.092	2.950 ±11.4	2.059 ±.126	1.114 ±.270
0	1	0	1	Yes	1	0.01	0	3 1.013	1.338	.634	0 .543	9 .091	.000	9 .091	1.425	1.713	1.183	26 .814	2.098	1.356
0	1	0	1	Yes	1	0.05	0	±.699 .924	±.188 1.345	±104 .632	±.296 .546	±.227 .085	±000 .000	±.227 .085	±.609	±169 1.707	±.101 1.189	±.483	±.335 2.093	±.201 1.349
		0	<u> </u>	Yes	- <u>-</u>	0.1	0	±497	±.163	±.106	±.283	±.234	±000	±234	±.203	±.152	±.083	±.582	±.349	±190
	•	•	•		•	0.1	Ĵ	±1.09 4	±180	±.124	±475	±.368	±.000	±368	±.634	±.123	±.105	±1.14 2	±312	±182
0.25	0	0	1	No	1	0.01	0	.025 ±.002	.027 ±.003	.969 ±.002	.538 ±.004	.431 ±.002	.000 ±.000	.431 ±.002	.028 ±.003	1.171 ±.005	.113 ±.004	.015 ±.003	1.069 ±.004	.018 ±.004
0.25	0	0	1	No	1	0.05	0	.045 ±.010	.059 ±013	.972 ±.005	.542 ±.010	.430 ±.004	.000 ±.000	.430 ±.004	.040 ±.008	1.173 ±.010	.119 ±.008	.041 ±.010	1.065 ±.015	.057 ±.015
0.25	0	0	1	No	1	0.1	0	.077	.111	.976	.546	.429	.000	.429	.067	1.172	.145	.076 + 021	1.070	.113 + 029
0.25	0	0	1	Yes	1	0.01	0	.131	.164	.998	.586	.412	.000	.412	.124	1.101	.211	.131	1.052	.165
0.25	0	0	1	Yes	1	0.05	0	.150	.168	1.007	.608	.399	.000	.399	.139	1.104	.214	.150	1.014	.167
0.25	0	0	1	Yes	1	0.1	0	.156	±011 .162	1.021	±.021 .631	±.013	1000 <u>±</u> 000.	±013	±020	1.103	±010	±.019 .155	.983	±.015 .159
0.5	0	0	1	No	1	0.01	0	±.019 .015	±.014	±.016 1.005	±.026 .611	±013 .394	±.000	±013	±.022 .037	±.022 1.065	±.011 .207	±.021 .008	±.025 .991	±.016 .011
								±.005	±.005	±.002	±.005	±.003	±.000	±.003	±010	±.006	±.004	±.003	±.004	±.003

0.5	0	0	1	No	1	0.05	0	.035	.044	1.006	.612	.394	.000	.394	.044	1.064	.210	.033	.992	.041
								±006	±.008	±.006	±011	±.005	±.000	±.005	±008	±.008	±.006	±006	±.013	±.008
0.5	0	0	1	No	1	0.1	0	.061	.073	1.016	.627	.389	.000	209	.067	1.063	.217	.062	.978	.073
								±013	±.016	±014	±.024	±011	±000	±011	±_017	±.018	±.017	±.015	±.026	±.019
0.5	0	0	1	Yes	1	0.01	0	.355	.335	1.058	.655	.402	.000	.402	.266	1.192	.364	.361	1.029	.312
								12.062	±.025	±.048	±.075	±.031	±.000	±031	±070	±.060	±014	±.060	±.080	±039
0.5	0	0	1	Yes	1	0.05	0	.343	.360	1.055	.651	.404	.000	.404	.267	1.182	.361	342	1.042	.349
								±049	±.046	±041	±.061	±.024	±.000	±.024	±.060	±.049	±.021	±.056	±.087	±.065
0.5	0	0	1	Yes	1	0.1	0	.336	344	1.061	.678	.383	000	.383	.307	1.119	.360	.343	1.032	.340
<u> </u>								±046	±.044	±.036	±.062	±.031	±.000	±.031	±050	±065	±.02/	±.051	±.0/2	±053
1	U	0	1	No	1	0.01	0	.175	.116	1.051	.734	.318	.000	.318	.529	.928	.450	.040	.949	
<u> </u>				<u></u>		0.00		100	±009	1013	±0.00	±01/	±.000	±017	1.056	2.015	1009	1 1.012	±.010	1.000
1 1	U	U	1	NO	1	0.05	0	.180	.119	1.055	./41		.000	416.	.532	.927	.450	051	.944	.054
<u> </u>		~~~				0.1		100	±012	1.014	±.003	±019	±000	±.019	2.003	±010	±013	1015	±.015	±.008
1 1	U	U	1	100	1	0.1	U	.194	.120	1.005	./33	.309	.000		.524	.927	.452	.077	.934	.074
	0		1	Var		0.01		2.045	1014	1 2025	±.052	215	±.000	112	20/9	1 220	±.020	1.015	1 027	±013
1 1	U	U	1	res	1	0.01	0	.920	.03/	1.202	.00/	- 212	.000	-212	.090	1.2.39	.004	.9/6	1.073	.023
<u>├</u>	0	0	1	Var	1	0.05	0	1239	£043	1 107	2.140	207	<u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	207	714	1 229	457	1.299	1 070	£.000
· ·	U	U	•	103	1	0.00		+ 225	+047	+ 002	.070	+ 074	+ 000	+ 074	+ 210	+ 064	+ 027	+ 270	+ 005	+ 050
<u>├</u>	0	0	1	Vor	1	01	0	001	<u>1047</u>	1 201	804	307	1000	307	708	1 210	667	000	1.095	636
· ·	U	Ū	•	ica	•	0.1		+ 252	+ 038	+ 065	+ 108	+ 058	+ 000	÷ 058	+242	+ 070	+ 031	+ 265	+ 067	+ 046
<u>├</u> ──	0	0	1	No	1	0.01	0	12.61	320	2 155	10 19	1.0.00	000	1.000	103.6	984	1 420	830	774	277
-	Ŭ	v	•	140	•	0.01	Ŭ	8	+ 005	+ 561	10.15	8 038	+ 000	8 038	96	+ 014	+ 015	+ 283	+ 036	+ 010
								+4.55	2000		+3.10	+2.55	1.000	+2.55	+162		2010		2000	2010
								- 9			5	2		2	14					
2	0	0	1	No	1	0.05	0	14.21	.367	2.378	11.23	-	.000		108.5	.987	1.423	.948	.710	.280
								8	±010	±1.00	7	8.660	±.000	8.860	23	±021	±.018	±.464	±.052	±015
ļ								±7.20		4	±4.68	±3.70		±3.70	±23.6					
								1			3	0		0	54		_			
2	0	0	1	No	1	0.1	0	###	.437	***	###	###	.000	###	###	1.079	1.435	###	.728	.350
									±319				±.000			±.383	±.062		±131	±277
2	0	0	1	Yes	1	0.01	0	10.66	1.069	3.178	4.054	876	.000	876	4.461	1.457	1.176	11.10	1.177	1.024
								8	±065	±.844	±1.33	±.846	±.000	±.846	±4.31	±.060	±045	2	±.132	±.066
1								±3.36			3				0			±4.34		
L								2										9		
2	U	0	1	Yes	1	0.05	0	14.20	1.026	4.321	5.545	-	.000	-	111.84	1.427	1.145	10.28	1.183	.989
1								9	±119	±3.23	±4.75	1.225	±.000	1.225	6	±0/8	±.074	0	±139	±.126
								±13.6		/	3	±1.63		±1.63	±17.8			±6.18		
<u> </u>			1	<u></u>		0.1		00	001	71 04	17.4/	2	- 000	2	14 (5	1.707	1 117	(2.22	1 142	053
1 <b>1</b>	U	U	1	res	1	0.1	0	33.90	.990	11.04	17.40	- E (10	.000	- 	14.60	1.400	1.117	02.23	1.142	.953
1								+126	£.152	+24 6	-121	-18 P	£000	118.9	+102	£.002	£000	+162	1.10/	£1/1
1								480		26		12		13	56			430		
# Posted-price simple condition, optimal model

σy	бр	М	Est	Ns	Crash	S(Y)	S(P)	Rev.	P.C.	G.P.	In.C.	Prof.	S(Y)	P	S(P)	SIYI	P	S(P)
0	0	No	Yes	10	õ	.004	.005	1.000	.600	.400	.005	.395	.129	1.107	.262	.004	1.000	.005
						±.001	±.001	±.000	±.001	±.001	±.000	±.001	±001	±001	±.002	±.001	±.001	±001
0	0	Yes	Yes	10	0	.003	.012	1.142	+ 000	.844	.003	.841	+ 000	2.212	+ 001	+ 001	2.299	+ 002
0	0.1	No	Yes	10	0	.038	.050	1.001	.605	.396	.054	.342	.135	1.097	.260	.038	.993	.049
	_					±.005	±007	±.003	±.005	±.007	±.003	±.008	±.008	±.012	±016	±.007	±.013	±.009
0	0.1	Yes	Yes	10	0	.035	.118	+ 005	.305	.837	.02/	.810	+ 007	2.170	+ 025	+ 005	2.249	.114
0	0	No	No	10	0	.008	.005	1.000	.600	.400	.006	.394	.008	1.000	.005	.008	1.000	.005
						±.001	±.001	±.000	±001	±.001	±.000	±001	±001	±.001	±.001	±002	±001	±001
0	Û	No	Yes	10	0	.00% ±.001	.005 ±001	1.000 ±.000	.600 ±.000	.400 ±.001	.006 ±.000	.394 ±.001	.129 ±.001	1.108 ±.001	.263 ±.002	.008 ±.002	1.000 ±.001	.005 ±.001
0	0	Yes	No	10	0	.008	.012	1.142	.298	.844	.004	.840	.007	2.299	.011	.008	2.300	.012
$\vdash_{\alpha}$		Voe	Voe	10	0	±.001	±001	±.000	2000	±.000	±000	±.000	±.002	±003	±002	±.001	2 2004	±.001
Ŭ	Ŭ	100	100		Ů	±.001	±.001	±.000	±.000	±.000	±.000	±.000	±.001	±.002	±.002	±.001	±.003	±.002
0	0.1	No	No	10	0	.020	.025	.999	.603	.397	.027	.370	.019	.996	.024	.021	.996	.026
	01	No	Ves	10		±.002	±.003	1.001	±002	±003	£.002	±.004	±.003	1 106	262	±.003	1 000	±004
	0.1				Ŭ	±.002	±.002	±.001	±.002	±.003	±.002	±.004	±.003	±.006	±010	±003	±.004	±003
0	0.1	Yes	No	10	0	.018	.057	1.141	.299	.842	.014	.829	.017	2.295	.055	.017	2.295	.057
<u> </u>	01	Yes	Yes	10	0	±.002	±.008	1 143	±.002	±.000 812	£.001	±.001 828	±003	2 194	213	±002	2 287	±.008
ľ	0.1				Ű	±.002	±.007	±.002	±.002	±.000	±001	±001	±.002	±014	±.009	±.003	±.011	±.008
0.1	0	No	No	10	0	.033	.005	1.000	.600	.400	.013	.387	.034	1.000	.005	.033	1.000	.005
	0	No	Yes	10	0	±005	2.001	1.000	±.000	±001	±.001	387	.134	1.108	.263	.035	1.000	.005
						±.006	±.001	±.000	±.000	±.000	±.001	±.001	±.003	±.002	±002	±.007	±.001	±.001
0.1	0	Yes	No	10	0	.037	.011	1.142	.298	.844	.012	.832	.039	2.299	.011	.035	2.299	.011
0.1	0	Yes	Yes	10	0	±.007	±002	1.142	.298	±000		.832	.072	2.211	.213	.037	2.299	.012
						±.005	±.001	±.000	±.000	±.000	±.001	±.001	±.004	±.003	±.002	±.005	±.002	±.002
0.1	0.1	No	No	10	0	.040 ±.005	.025 ±.003	1.000 ±.001	.602 ±.002	.398 ±.003	.029 ±.002	.369 ±005	.039 ±.007	.997 ±006	.026 ±.004	.041 ±.008	.997 ±.006	.025 ±.004
0.1	0.1	No	Yes	ï0	0	.038	.024	1.001	.600	.401	.030	.370	.134	1.109	.264	.039	1.000	.023
01	0.1		N	- 10		±.004	±.002	±.001	±.002	±.002	±.002	±.003	±.004	±.008	±012	±008	±.006	±.003
0.1	0.1	res	INO	10	U	.040 ±.005	±.006	$\pm .002$	.300 ±.002	.042 ±.000	±.001	.624 ±.002	.038 ±007	±013	±012	±.006	±011	.056 ±.007
0.1	0.1	Yes	Yes	10	0	.039	.058	1.142	.300	.842	.018	.825	.072	2.202	.216	.038	2.286	.058
		ME	ht-	10		±007	±007	±.002	±.002	±.000	±.001	±.002	±.006	±013	±011	$\pm 008$	±.014	±.009
0.1	U	INO	IND	10	U	.000 ±.008	.005 ±001	±.000	.600 ±.000	.400 ±.001	±.0025	.375 ±002	.067 ±016	±.000	.005 ±001	$\pm 010$	±.001	±.005
0.1	0	No	Yes	10	0	.069	.005	1.000	.600	.400	.025	.375	.144	1.107	.262	.072	1.000	.005
		Vee	V	10		±013	±.000	±.000	±.000	±.001	±.002	±002	±.007	±.001	±.002	±017	±.001	±.001
0.1	0	res	res	10	0	.075 ±.011	.012 ±001	$\pm .000$	±.000	.044 ±.000	±.0024	±.002	±.010	$\pm .003$	±.001	±.012	±.003	±.002
0.1	0.1	No	No	10	0	.075	.024	.999	.603	.397	.036	.361	.073	.999	.024	.076	.994	.024
	01	Var	Var	10	0	±010	±.003	$\pm .001$	±.002	±002	±.003	±.003	±015	$\pm .004$	±.004	±.012	±006	±.003
0.1	0.1	162	165	10		±011	±.007	±.002	±.002	±.000	±.003	±.003	±012	±.010	±.008	±.012	±012	±009
0.1	0.1	No	Yes	10	0	.083	.053	1.001	.606	.395	.059	.336	.150	1.098	.257	.080	.994	.054
01	01	Voe	Vee	10	0	±012	±.006	$\pm .002$	±.004	±006	±.006	±.009 802	±.013	±.014 2 171	±022	±016	2 268	±.008
0.1	0.1	105	105	10	Ŭ	±.014	±.017	±.004	±.004	±.001	±.002	±003	±013	±.022	±.023	±015	±.027	±.021
0.1	0	Yes	No	10	0	.070	.011	1.142	.298	.844	.024	.820	.075	2.300	.011	.067	2.300	.012
0.1	0.1	No	Yes	10	0	.069	.027	1.000	.602	.398	.036	.362	.148	1,102	.263	.070	.999	.027
	••••					±.012	±.004	±.002	±.003	±.004	±.003	±.004	±010	±.008	±.013	±015	±.005	±005
0.1	0.1	Yes	No	10	0	.067	.058	1.141	.299	.842	.027	.815	.070	2.291	.054	.066	2.292	.060
0.1	0.1	No	No	10	0	.079	.051	.999	.608	.391	.057	.334	.079	.994	.049	.078	,985	.052
						±.013	±.008	±.002	±.004	±.005	±.004	±.007	±.014	±.011	±010	±.016	±.008	±.010
0.1	0.1	Yes	No	10	0	.076	.116	1.139	.302	.837	.035	.802 + 002	.075	2.266	.111	.078	2.265	.116
L					L			1.004	1.004	1.001	1.002	1.000	1.010	1.040	1.010	1.014	1.029	2.017

Posted-price simple condition, behavioral model

T	σy	bo	b1	ь2	ф	Disc	al	Crash	SIY	SIP	Rev.	P.C.	G.P.	In.C.	Prof.	SIY	P	SIPI	S(Y)	P	S(P)
1	0	1	0.25	0	0.01	No	0.5	0	.007	.013	1.000	.600	.400	.006	394	.123	105	.146	.006	.001	.011
$\left  \frac{1}{1} \right $	0	1	0.25	0	0.05	No	0.5	- 0	±.002	±.004	±001	±001	±.002	±.000	±.002	±.003	±.011	±015	±.002	±.005	±.003
Ŀ							0.0		±.009	±.021	±002	±004	±.006	±.003	±.007	±010	±019	±027	±.00/	±.022	±013
1	0	1	0.25	0	0.1	No	0.5	0	.073 ±.012	.131 ±.027	.993 ±007	.619 ±.012	.374 ±019	.056 ±.004	_319 ±.021	.151 ±017	038 ±.054	.206 ±044	.070 ±.016	.061 ±.046	.123 ±043
1	0	1	0.25	0	0.01	Yes	0.5	0	.253	.682	.979	.665	.314	.103	.211	.278	.220	.652	.241	.279	.598
1	0	1	0.25	0	0.05	Yes	0.5	0	±.052 .305	±.425 .908	±014 .943	±030 .723	±.044 .220	.120	±.048 .100	±.049	±.166 .245	±.333 .688	±.060 .274	±2/8 .438	±.443
┝			0.05		0.1		0.5		±121	±.555	±140	±180	±.319	±010	±.317	±.093	±.233	±392	±.091	±.382	±736
1	0	1	0.25	0	0.1	res	0.5	0	.2/3 ±.139	.673 ±.329	.955 ±132	.706 ±170	.248 ±.302	±.010	±.307	±.069	±.203	.040 ±443	.232 ±.052	±227	±381
1	0	1	0.5	0	0.01	Yes	0.5	0	.544 ±291	3.149 ±3.31	.584 ±.417	1.187 ±.447	604 ±.864	.153 ±.084	756 ±.781	.712 ±157	1.268 ±1.50	3.115 ±2.85	.390 ±.332	.965 ±1.82	2.721 ±3.49
$\left  \right _{1}$	0	1	0.5		0.05	Yes	0.5	0	.656	4.836	.580	1.269	689	.293	982	.844	3.495	5.344	.536	5.486	2.851
1									±.360	±6.76	±397	±.473	±.868	±.108	±.909	±174	±6.32	±5.86	±.418	±14.6	±4.22
1	0	1	0.5	0	0.1	Yes	0.5	0	.335	1.753	.191	1.821	•	.526	-	1.000	4.692	4.469	.155	9.136	.299
									±340	±2.89 3	±340	±458	1.630 ±.792	±238	2.156 ±.948	±182	±6.61 5	±4.85 0	±.224	±11.8 35	±.780
1	0	1	1	0	0.01	No	0.5	4	1.995	19.79	.361	3.073		1.999		1.934	3.753	17.47	.968	052	8.119
									±1.16 6	1 ±30.9	±.342	0 1135	2.712 ±1.68	±1.17 7	4./11 ±2.86	±1.46	±7.13 6	8 ±26.9	±1.30	±8.34 2	±29.5 16
<u> </u>	0	1	1	0	0.05	No	05		080	5 6 3 0	583	2 020	8	1 104	0	1 248	1 457	47	5/3	- 051	1 827
1.	v	•		U	0.00	110	0.5		±1.07	±9.87	±.450	±1.54	1.448	±1.25	2.643	±1.36	±3.67	±11.6	±1.04	±2.12	±5.31
									5	3		0	±1.97 4	7	±3.22 6	3	6	56	5	4	7
1	0	1	1	0	0.1	No	0.5	0	.322	.882	.837	1.142	306	.507	813	.595	.241	.643	.260	.376	.942
									1.520	±1.87 9	<b>X.363</b>	±1.14 9	2	1.917	12.41	1.900	1.351	1.704	1.340	1.700	±2.31 6
1	0	1	1	0	0.01	Yes	0.5	0	.108 +211	.000. ±.000	.008 ±.025	2.079 ±490	2.071	.460 ±.695	- 2.531	1.247	20.26 8	25.63 1	.003 ±.005	33.15 2	.000. ±.000
													±497		±1.18 9		±62.7 44	±57.1 20		±116. 945	
1	0	1	1	0	0.05	Yes	0.5	1	.103	1.257	.003	2.489	2 496	1.063	2 540	1.455	20.93	18.35	.025	29.53	.000
									1.172	1D.47 8	TOLL	I.441	±444	1.020	±1.07	1.272	±26.5	±17.7	£020	±40.4	1.000
$\left  \right _{1}$	0	1	1	0	0.1	Yes	0.5	0	.111	.000	.000	2.860	-	1.571	0	1.547	74	66 7.750	.102	<u>20</u> 17.98	.000
									±.076	±.000	±.000	±615	2.860	±.836	4.432	±397	0	±9.86	±.076	4	±.000
													1.013		1 1.45		68	0		<u>123.3</u> 93	
1	0	1	0	0.1	0.01	No	0.5	0	.014 ±.004	.013 ±.002	1.148 ±.002	.306 ±.002	.843 ±.001	.004 ±.000	.838 ±.001	.055 ±.003	417 ±.017	.056 ±.050	.006 ±.002	422 ±.004	.012 ±.002
1	0	1	0	0.1	0.05	No	0.5	0	.036	.064	1.152	.317	.836	.015	.820	.055	407	.077	.032	431	.057
1	0	1	0	0.1	0.1	No	0.5	0	.062	±.024	1.154	.347	.807	.032	.775	.057	415	.120	.056	410	±.010
<b> </b> _	0	1		01	0.01	Voc	05	0	±.016	±.022	±007	±022	±.020	±.004	±.024	±.024	±.032	±.028	±.016	±032	±.027
				0.1	0.01	103	0.5	Ŭ	±.004	±.003	±.007	±.007	±.001	±.001	±.002	±.009	±.020	±.047	±.004	±.007	±.004
1	0	1	0	0.1	0.05	Yes	0.5	0	.076 ±.005	.062 ±.008	1.132 ±.005	.300 ±.004	.833 ±.002	.023 ±.001	.810 ±.003	.097 ±.009	423 ±.026	.069 ±.021	.076 ±.006	419 ±.012	.061 ±.007
1	0	1	0	0.1	0.1	Yes	0.5	0	.088	.123	1.134	.307	.827	.034	.793	.103	410	.131	.087	407	.124
1	0	1	0	0.2	0.01	No	0.5	0	.009	±.016	1.143	.299	.844	.002	±.004 .840	.063	420	.034	.006	422	.012
$\vdash_1$	0	1	0	0.2	2.05	No	0.5	0	±.001	±.003	±.002	±.002	±.000 840	±.000	±.000	±.006	±.011	±.037	±.002	±.003	±.003
Ļ				0.0					±.006	±.010	±.008	±.009	±001	±.001	±.002	±.010	±.018	±038	±.007	±.023	±.009
	0	1	U	0.2	0.1	No	0.5	0	.058 ±.014	.121 ±.021	1.151 ±.011	.327 ±.018	.824 ±.010	.031 ±.003	.793 ±.012	.077 ±.012	418 ±.042	.126 ±.025	.058 ±.016	414 ±.033	.119 ±.028
1	0	1	0	0.2	0.01	Yes	0.5	0	.136	.039	1.114	.309	.805	.033	.772	.135	401	.055	.136	407	.038
1	0	1	0	0.2	0.05	Yes	0.5	0	.146	.074	1.105	.299	.805	.039	.767	.154	.399	.078	.146	- 406	.074
1	0	1	0	0.2	0.1	Yes	0.5	0	±.009 .155	±.010 .123	±.007	±.007 .302	±.003 .799	±.002 .046	±.005 .753	±.012	±.019 408	±019 .126	±.012 .155	±.020 -,395	±.015
L-			-	0.5	0.01	NT-	0.5		±.012	±.021	±010	±.007	±.005	±.003	±.007	±013	±.037	±031	±.015	±.038	±.030
	0	1	U	0.5	0.01	100	0.5	U	.006 ±.001	.012 소.002	1.142 ±.001	.298 ±001	.844 ±.000	±.003	.841 ±000	.068 ±.006	412 ±014	.039 ±.042	.005 ±.001	421 ±.003	±.002
1	0	1	0	0.5	0.05	No	0.5	0	.030	.063	1.142	.300	.841	.015	.827	.072	413	.077	.030	424	.064
-										7.011	1.000	1.000	1.001	7.001	2.002	1000	ᆂᆔᆘᅀᄮ	-03/	1.00/	a. 060	

1	0	1	0	0.5	0.1	No	0.5	0	.061 ±012	.119 ±019	1.141 ±.006	.307 ±007	.834 ±.003	.030 ±.002	.804 ±.004	.090 ±.014	409 ±.031	.124 ±.026	.060 ±.014	411 ±.030	.118 ±.024
1		1	0	0.5	0.01	Yes	0.5	20	***	###	###	###	###	###	###	###	###	###	###	###	###
1	0	1	0	0.5	0.05	Yes	0.5	20	###	***	***	***	***	###	###	***	###	###	###	#**#	***
11	0	1	0	0.5	0.1	Yes	0.5	20	###	***	***	***	***	***	***	.319	359	.163	###	***	###
		<u></u>	0.25	<u> </u>	0.01	No	05	- 0	015	040	007	625	372	105	- 367	141	±018	150	013	- 003	- 026
1.	Ũ	v	020	v	0.01	140	0.5		±021	±.070	±013	±017	±.026	±.048	±.051	±.012	±.033	±.073	±.022	±.010	±030
1	0	0	0.25	0	0.05	No	0.5	0	.071	.189	1.024	.634	.390	.207	.183	.162	089	.249	.066	.003	.158
									±.039	±.193	±025	±.040	±.044	±.093	±110	±.040	±.050	±.186	±.035	±.057	±152
1	0	0	0.25	0	0.1	No	0.5	1	.146	.321	1.052	.640	.412	.281	.131	.178	083	.247	1.154	.015	.356
<u>├</u>			0.00		0.01	- V	- 0.5		±060	±255	±.021	±.028	±.020	±.083	±090	$\pm 030$	±.108	±.151	±.080	±.082	±313
1	U	U	0.25	0	0.01	res	0.5	U	+012	+ 27.5	+021	+036	- 036	+ 691	+ 108	+017	+ 068	+ 200	+ 010	+ 119	+ 286
T	0	0	0.25	0	0.05	Yes	0.5	0	.147	.229	1.062	.698	.365	- 371	006	.196	.042	.269	.132	.038	.220
								_	±^m	±.275	±.015	±.064	±.052	±100	±.149	±.027	±071	±.155	±.046	±.060	±317
	0	0	0.25	0	0.1	Yes	0.5	0	.379	.384	1.042	.809	.233	.438	205	.219	.078	.356	.395	.074	.320
<u> </u>									±.548	±471	±050	±294	<u>±.336</u>	±.234	±.560	±.057	±.087	±388	±.589	±.082	±.480
11	0	0	0.5	0	0.01	No	0.5	4	.258	.086	.939	.917	.022	.384	362	.369	017	.288	.235	.026	.084
									T.001	1.203	1201	1.00	2120	1.002	12.00	1.000	£ 102	1.393	T.212	1.000	1.240
$\left  \right $	0	0	0.5	0	0.05	No	0.5	2	274	259	.946	.919	.027	.434	407	.331	015	.396	.261	.046	258
1	-			-			- /-		±.823	±.461	±266	±983	±1.24	±.793	±2.03	±.732	±139	±.703	±.861	±.131	±540
													8		8						
11	0	0	0.5	0	0.1	No	0.5	1	1.066	.403	.847	1.370	524	.793		.554	099	.517	.651	196	.271
1									±1.42	±.370	±.326	±1.20	±1.53	±.895	1.317	±.897	±.258	±447	1.17	±.873	±.292
1									ð			У	3		12.42 7				'		
1	0	0	0.5	0	0.01	Yes	0.5	0	.131	.440	1.029	.684	.345	.268	.078	_249	.075	.562	.112	004	.438
·	•	••	0.0	•					±.090	±417	±.037	±.080	±.096	±.106	±.166	±.077	±.044	±.546	±.086	±.269	±419
1	0	0	0.5	0	0.05	Yes	0.5	0	1.053	3.256	.918	1.404	-,486	.911	-	.410	.708	1.890	.750	.639	3.421
[									±1.19	±4.89	at.251	±.978	±1.22	±.700	1.397	±150	±1.94	±3.78	±.967	±2.18	±5.20
									6	0			9		±1.92		7	8		6	4
		0	05	0	01	Vœ	05		1 816	1 201	502	2 708		1.800		1 220	018	2 703	1 248	- 557	300
1 *	v	U	0.5	v	0.1	105	0.5	Ū	$\pm 1.010$	+2.24	$\pm 374$	±1.19	2.295	±.909	4.185	±1.06	±1.73	±4.55	$\pm 1.240$	±1.91	±.895
									8	3		8	±1.55		±2.45	8	7	4	0	9	
													8		9						
1	0	0	1	0	0.01	No	0.5	7	.062	.021	.788	1.494	706	.873	-	.868	235	.325	.004	262	.015
1									±172	±016	±449	±1.73	±2.18	±1.42	1.579	±1.39	±927	±351	±.002	±.960	±008
												4	3	/	10.61 N	3					ł
$\downarrow_1$	0	0	1	- 0	0.05	No	0.5	5	889	103	284	3.277	·	2.243		1.979	043	1.145	.771	- 336	106
1.	•	Ũ	•	Ũ	0.00		0.0		±1.31	±.166	±424	±1.55	2.993	±1.31	5.236	±1.55	±.766	±1.26	±1.50	±1.14	±196
									2			5	±1.96	7	±3.26	8		9	6	1	
													2		5						
1	0	0	1	0	0.1	No	0.5	1	1.322	.263	.101	4.184		2.994	-	2.964	249	.783	.340	759	.068
									±1.20	±521	±.167	±640	4.083	£.557	1.0//	±1.1/	±.884	1.6U/	±.925	±1.53	±.226
1							1		l °				1.007		21.30	"			1	2	
1	0	0	1	0	0.01	Yes	0.5	0	.854	5.909	.586	2.175	-	1.417		1.166	3.207	12.00	.512	1.841	6.996
									±1.03	±24.6	±467	±1.62	1.589	±1.24	3.006	±1.19	±8.41	1	±.817	±9.86	±29.8
1									4	24		7	±2.06	3	±3.27	5	5	±27.9		4	93
<u> </u>					0.05	- <u></u> -						1 202	5	0.075	6		1010	06	1000		
11	0	0	1	0	0.05	Yes	0.5	0	.460	.025	.024	4.199	- 4 175	2.975	- 7 150	2.739	1.217	4.584	.031	474	1000
1									±/1/	TOA	1.052	T.00/	4.1/5 ±671	1./02	+1.45	1.0/3	גרדי גר	113.U 04	1 1003	T'09/	-000
1															1		5				1
1	0	0	1	0	0.1	Yes	0.5	0	.541	.056	.038	3.638	-	2.383		2.091	181	.262	.317	255	.049
1									±.866	±.208	±126	±.818	3.600	±.905	5.983	±.859	±.538	±231	±.674	±.564	±.220
1													±859		±1.74						ł
<b>-</b>	0	1	05		0.01	Ma	0 -	0	Δ1Z	071	1.000	201	200	0/10	201	174	_ 0/1	165	mo	- 000	012
1	U	I	0.5	U	0.01	110	v.5	U	±030	±021	±.001	±004	±005	±.010	±.015	±069	±039	±142	±.005	±.005	±.009
1	0	1	0.5	0	0.05	No	0.5	0	.033	.059	1.000	.603	.397	.029	.368	.128	034	.133	.033	.010	.059
L									±.007	±.012	±.002	±005	<u>+.007</u>	±.003	±.008	±.008	±.020	±.036	±.008	±.019	±.015
1	0	1	0.5	0	0.1	No	0.5	0	.068	.114	1.000	.607	.393	.060	.333	.140	015	.168	.070	.035	.114
<u> </u>	0.05				0.01				±018	±.037	±.005	±010	±.015	±.006	±.018	±.015	±029	±.042	±.021	±039	±.047
	0.05	I	0.5	U	0.01	NO	0.5	U	.036	1110.	1.000	.600	.400	.014	.386. + 001	126	052	+ 030	+ 000	000. ¢00+	+0001
1	0.05	1	05	0	0.05	No	05	0	047	050	000	1.000	305		363	130	- 014	.143	.047	000	.054
1.	5.00	•	0.0	v	2.50		0.0		±.007	±.012	±.002	±.004	±.006	±.002	±.007	±.007	±.017	±.026	±.008	±.016	±.013
1	0.05	1	0.5	0	0.1	No	0.5	0	.076	.127	.998	.612	.385	.061	.324	.149	004	.189	.074	.029	.128
									±013	±.032	±.003	±.006	±.009	±.004	±010	±.015	±.037	±.057	±.013	±.034	±.032
1	0.1	1	0.5	0	0.01	No	0.5	0	.076	.012	1.000	.600	.400	.025	.376	.139	052	.134	.079	.000	.012
<u> </u>	0.1		0 -	-	0.05	NT-	- 0 -	-	±011	±003	±.000	±.001	±001	±.002	±.002	±.008	±.020	±.034	±.014	±.003	±.003
11	0.1	i	0.5	U	0.05	NO	0.5	U	180.	.U58	1.000	.603	.39/	.039	.358 + 004	150	045 +007	121.	180, 1	.009	+ 011
1									1.009	7.000	1.002	1.004	1.000	T.002	1.000	1.00/	1.027	-030	1 2 0 1 1	1.01/	11011

T1	0.1	1	0.5	0	0.1	No	0.5	0	.101	.128	.997	.613	.384	.066	-318	.158	008	.183	.102	.051	.126
									±011	±.036	±003	±.006	±.010	±007	±013	±019	±.038	±.041	±017	±.045	±051
2	0	1	0.5	0	0.01	No	0.5	0	.008	.011	1.000	.601	.399	.007	.392	.134	055	.142	.006	.002	.010
									±004	±.003	±.000	±001	±.001	±.001	±.002	±004	±017	±036	±.002	±.004	±.002
2	0	1	0.5	0	0.05	No	0.5	0	.030	.058	.999	.604	.396	.032	.364	.139	044	.146	.030	.014	.057
							_		±006	±.012	±002	±.003	±.005	±002	±.004	±007	±019	±.03/	±.007	±.015	±.015
2	0	1	0.5	0	0.1	No	0.5	0	.066	.129	.999	.609	.390	.065	.325	.153	007	.174	.066	.039	.132
									±014	±031	±.004	±.008	±.012	±.005	±.015	±.022	±.036	±.043	±015	±030	±.042
2	0.05	1	0.5	0	0.01	No	0.5	0	.030	.012	1.000	.600	.400	.015	.384	.136	051	.126	.029	.001	.011
									±.003	±.003	±.000	±.001	±.001	±001	±001	±.004	±.016	±.033	±.005	±.003	±.003
2	0.05	1	0.5	0	0.05	No	0.5	0	.042	.060	1.000	.603	.397	.035	.362	.144	036	.141	.039	.010	.059
									±.007	±.014	±002	±004	±.006	±.003	±006	±008	±016	±035	±.006	±012	±.011
2	0.05	1	0.5	0	0.1	No	0.5	0	.064	.119	.999	.610	.389	.065	.324	.152	026	.188	.063	.042	.125
									±015	±028	±.005	±.008	±.013	±.007	±.014	±.018	±038	±.050	±016	±.037	±.034
2	0.1	1	0.5	0	0.01	No	0.5	0	.059	.013	1.000	.600	.400	.029	.371	.142	048	.129	.061	.000	.014
									±010	±.004	±.000	±.001	±001	±.003	±.004	±.008	±.014	±027	±013	±.003	±.005
2	0.1	1	0.5	0	0.05	No	0.5	0	.068	.058	.999	.603	.3%	.043	.353	.151	030	.148	.069	.007	.055
							-		±.010	±016	±.002	±.004	±.005	±.004	±007	±.009	±.026	±040	±010	±014	±.614
2	0.1	1	0.5	0	0.1	No	0.5	0	.080	.126	.997	.614	.382	.073	.310	.167	011	.185	.081	.053	.124
									±012	±032	±.003	±.006	±.008	±.008	±.012	±019	±.045	±066	±.013	±033	±.026
1	0.1	1	0	0.2	0.01	No	0.5	0	.069	.013	1.143	.299	.844	.023	.820	.093	419	.033	.068	421	.012
									±012	±.002	±001	±.001	±.000	±.001	±.001	±.014	±.016	±.042	±014	±.004	±.003
1	0.1	1	0	0.2	0.1	No	0.5	0	.100	.305	1.146	.320	.827	.039	.783	.107	427	.289	.095	419	.277
L									±.014	±.226	±.010	±.014	±.007	±.003	±.008	±.022	±.087	±231	±.016	±.064	<u>±.217</u>

Note: a2 and  $\sigma_x$  are zero and  $d=\sigma_p/2$  in all simulations.

σy	op	a	М	Est	Ns	Crash	SIY	SIP	Rev.	P.C.	G.P.	In.C.	Prof.	S(Y)	P	S(P)	SIY	P	S(P)
							Ь10	t>10	t>10	t>10	t>10	t>10	1>10	₩20	₩20	t≤20	t>20	t>20	D20
0	0	1	No	No	10	0	.005	.010	1.000	.600	.400	.005	.395	.005	1.080	.197	.005	1.000	.010
							±.001	±.001	±.000	±001	±.000	±.000	±000	±.001	±.001	±001	±.001	±001	±001
0	0	1	No	Yes	10	0	.009	.037	.999	.600	.400	.006	.394	.122	1.154	.199	.005	1.000	.010
							±.001	±005	±.001	±.002	±001	±.000	±002	±.003	±.002	±.005	±001	±.002	±.002
0	0	1	Yes	No	10	0	.005	.023	.823	.246	.577	.001	.576	.005	1.891	.295	.005	2.011	.023
							±.001	±.004	±.001	±001	±.000	±.000	±.000	±.001	±.004	±.002	±.001	±.003	±.005
0	0	1	Yes	Yes	10	0	.040	.147	.840	.276	.563	.001	.562	.064	1.527	.156	.011	1.929	.068
							±001	±.003	±.001	±.001	±.000	±.000	±000	±.002	±.003	±.004	±.001	±008	±.007
0	0.1	1	No	No	10	0	.005	.040	1.002	.600	.402	.026	.375	.005	1.082	.199	.005	1.003	.041
							±.001	±.006	±.001	±001	±.001	±.002	±001	±001	±.002	±.005	±.001	±.002	±.009
0	0.1	1	No	Yes	10	3	.016	.060	.999	.594	.405	.026	.379	.120	1.166	.201	.009	1.005	.039
							±.008	±.013	±.002	±.007	±.005	±.003	±007	±012	±.026	±.028	±.005	±.003	±.007
0	0.1	1	Yes	No	10	0	.005	.045	.823	.246	.577	.005	.572	.005	1.890	.297	.005	2.011	.045
							±.001	±.006	±.000	±.000	±.000	±.000	±.000	±.001	±.004	±.006	±.001	±.004	±.010
0	0.1	1	Yes	Yes	10	5	.044	.160	.842	.281	.561	.007	.554	.072	1.518	.171	.015	1.908	.085
							±.005	±.014	±.004	±.008	±004	±.001	±.005	±025	±.032	±.027	±.005	±.039	±.026
0.1	0	1	No	No	10	0	.025	.032	1.000	.600	.400	.005	.395	.025	1.081	.199	.024	1.000	.032
							±.003	±.005	±.002	±004	±.002	±.000	±.002	±.004	±.003	±.004	±003	±.004	±.005
0.1	0	1	No	Yes	10	3	.036	.068	1.003	.606	.397	.008	.390	.139	1.155	.224	.035	.998	.046
							±.026	±.048	±.007	±013	±007	±.004	±010	±.037	±.006	±.050	±029	±.007	±.045
0.1	0	1	Yes	No	10	0	.025	.116	.820	.245	.575	.001	.574	.025	1.898	.314	.026	2.009	.119
							±.002	±.009	±.003	±.003	±.001	±.000	±.001	±003	±017	±011	±.004	±.020	±.016
0.1	0	1	Yes	Yes	10	1	.058	.202	.842	.284		.002	.556	.071	1.520	.174	.040	1.899	.161
							±.027	±071	±.005	±.012	±.006	±.002	±.009	±.023	±.017	±.018	±.038	±.039	±.100
0.1	0.1	1	No	No	10	0	.026	.047	1.002	.600	.402	.025	.376	.025	1.083	.202	.025	1.003	.046
							±.004	±.006	±.002	±.002	±.002	±.002	±.002	±.004	±.003	±.007	±.004	±.003	±.008
0.1	0.1	1	No	Yes	10	3	.046	.079	1.006	.608	.399	.028	.370	.139	1.156	.222	.044	1.001	.068
							±.042	±041	±.016	±.030	±.014	±.005	±019	±.046	±.008	±.057	±.043	±.017	±.036
0.1	0.1	1	Yes	No	10	0	.025	.117	.821	.246	.575	.006	.569	.024	1.893	.314	.024	2.007	.116
							±.003	±014	±.003	±.003	±.001	±.000	±.001	±003	±018	±013	±.004	±.020	±.019
0.1	0.1	1	Yes	Yes	10	4	.050	.184	.843	-282	.560	.007	.553	.113	1.540	.195	.032	1.886	.149
							±008	±.024	±.006	±.009	±.004	±.001	±.005	±.180	±021	±030	±.010	±.055	±.030
0.1	0	1	No	No	10	0	.050	.063	1.001	.600	.401	.006	.396	.048	1.083	.202	.051	1.005	.065
							±.007	±.008	±.003	±005	±.003	±.000	±.003	±.010	±.007	±.009	±007	±.008	±011
0.1	0	1	No	Yes	10	8	.064	.103	1.006	.608	.398	.008	.390	.163	1.161	.243	.058	1.000	.077
							±.021	±.040	±.009	±.020	±011	±.003	±014	±.050	±015	±.060	±.012	±012	±.016
0.1	0	1	Yes	No	10	0	.051	.231	.812	.246	.566	.002	.564	.049	1.895	.359	.052	2.010	.239
							±.006	±.027	±.008	±.006	±.003	±.000	±003	±.007	±.027	±022	±.009	±.043	±.034
0.1	0	1	Yes	Yes	10	0	.068	.252	.844	.290	.554	.004	.550	.079	1.530	.217	.060	1.854	.236
							±013	±.047	±.014	±.017	±.005	±.002	±006	±010	±.034	±.045	±.019	±101	±.061
0.1	0.1	1	No	No	10	0	.049	.074	1.003	.600	.403	.026	.376	.051	1.086	.205	.049	1.006	.072
							±.006	±.010	±.003	±.006	±.004	±002	±.004	±.007	±.007	±.010	±.008	±.010	±013
0.1	0.1	1	No	Yes	10	3	.055	.092	1.004	.602	.402	.027	.376	.141	1.161	.231	.052	1.007	.080
							±.012	±017	±.007	±015	±.009	±.002	±.010	±.041	±021	±.048	±.011	±015	±.016
0.1	0.1	1	Yes	No	10	1	.048	.218	.811	.245	.566	.006	.561	.048	1.875	.354	.048	2.027	.215
							±.007	±.030	±.009	±.007	±.003	±.001	±.003	±.011	±.034	±.033	±.008	±.051	±.034
0.1	0.1	1	Yes	Yes	10	2	.063	.241	.838	.281	.557	.008	.549	.078	1.544	.225	.054	1.890	.229
							±011	±.034	±.005	±.006	±.003	±.001	±.003	±.010	±.028	±.035	±.010	±.033	±.045

# Posted-price complex condition, optimal model

Posted-price complex condition, behavioral model

7	σy	θ	61	ь2	ы	ማ	al	σχ	Disc	Crash	SIY	SIP	Rev.	P.C.	G.P.	In.C.	Prof.	SIYI	P	S(P)	SIYI	P	SIPI
2	0	0	0.5	0	0	0.01	0.5	0	No	0	.023	.006	1.008	.605	.403	.024	.379	.062	1.032	.090	.005	.999	.006
			0.5			0.05	0.5		Na		±.002	±.002	±001	±.001	±.001	±.002	±002	±.003	±004	±.005	±.002	±.002	±.001
2		0	0.5	U	U	0.05	0.5	U	INO	Ű	.040 ±008	.034 ±.005	±004	±006	±.003	±.010	±011	±010	1.029 ±.011	±.010	±.008	.990 ±.009	
2	0	0	0.5	0	0	0.1	0.5	0	No	0	.069	.063	1.027	.630	.398	.134	.264	.086	1.005	.107	.060	.986	.000
2	0.1	0	0.5	0	0	0.01	0.5	0	No	0	.030	.006	1.007	.605	.403	.038	.365	.082	1.034	.093	.05%	1.000	1.000
<u> </u>	01		0.5	- 0	0	0.05	0.5	~	No		±.009	±.001	±.002	±002	±.601	±.004	±004	±.009	±.006	±.007	±.011	±.002	
-	0.1		0.5			0.00	0.5		140	Ů	±010	±004	±.003	±.005	±.003	±.008	±.008	±011	±.011	±.010	±.013	±.008	
2	0.1	0	0.5	0	0	0.1	0.5	0	No	0	.093	.068 + 010	1.025	.626	.399	.128	_271 +023	.111	1.025	.124	.084	.986	
2	0	0	1	0	0	0.01	0.5	0	No	9	###	.230	.394	###	###	###	<b>###</b>	139.6	.832	.283	###	.248	
												±.198	±.381					96 +431	±233	±.191		±419	
																		294					
2	0	0	1	0	0	0.05	0.5	0	No	3	***	.225 ±.173	.663 ±674	***	***	***	***	50.83 4	.795 ±216	.298 ±.175	###	.320 ±415	
																		±112.					
2	0	0	1	0	0	0.1	0.5	0	No	0	###	.236	.700	***	***	###	***	364 49.67	.846	.262	***	.458	
												±161	±.551					1	±211	±166		±.441	
																		952					
2	0.1	0	1	0	0	0.01	0.5	0	No	6	***	.178	.488	***	***	***	***	271.2	.798	.291	***	.382	
												T133	14.50					±789.	1.2/4	1.170		1.40)	
<u>⊢</u> ,	0.1	0	1	0	0	0.05	0.5	0	No		-	239	581	***	***	***	***	005	768	337		271	
-	••••	•	•	•	-	0.00	0.0	Ū				±.188	±.709					4	±218	±194		±409	
																		±125. 934					
2	0.1	0	1	0	0	0.1	0.5	0	No	0	***	.227	.543	***	***	***	###	32.35	.798	.283	***	.350	
												£.155	±408					±94.6	±228	±168		±.440	
			- 0	01	0	001	0.5	0	No		727	174	811	347	564	537	<u>m7</u>	95	1 725	200	021	3 116	
				0.1		0.01	0.5		140	1	±.034	±053	.011 ±.051	±048	±017	±074	.027 ±077	±062	±385	.280 ±109	±.017	±.187	
2	0	0	0	0.1	0	0.05	0.5	0	No	0	.054	.167	.836	.265 + 026	.571	.508	.063	.199 + 020	1.615	.176	.031	2.018	
2	0	0	0	0.1	0	0.1	0.5	0	No	0	.083	.205	.861	.303	.558	.450	.108	.180	1.459	.164	.049	1.858	
2	0.1		0	0.1	0	0.01	0.5	0	No	2	±.042	±076	±027	±.039	±014	±.060	±048	±.040	$\pm 144$ 1.549	±.060	±.019	$\frac{\pm 183}{2.033}$	
	0.1					0.05	0.0				±.025	±.062	±.040	±.040	±.009	±064	±.064	±.057	±.173	±.137	±.015	±.208	
	0.1	U	U	0.1	U	0.05	0.5	U	NO	U	.084 ±.017	.188 ±.050	.832 ±.023	.262 ±.025	.570 ±005	.512 ±.039	.058 ±037	±.023	1.632 ±.177	.161 ±046	.069 ±.010	2.058 ±.099	
2	0.1	0	0	0.1	0	0.1	0.5	0	No	0	.097	.207	.851	.291	.560	.468	.092	.199	1.551	.165	.082	1.888	
2	0	0	0	0.2	0	0.01	0.5	0	No	6	.083	249	.782	.226	.557	.573	016	.280	1.917	.404	.048	2.197	
<u> </u>				- 0.2		0.05	05		No	0	±.053	±120	±.036	±.032	±015	±.052	±054	±.030	±.425	±.101	±.036	±.129	
		U	0	0.2	U	0.05	0.5	U	IND	U	.046 ±.026	±.067	±031	±.023		±.037	±045	±034	±225	.291 ±.094	±012	±.085	
2	0	0	Ø	0.2	0	0.1	0.5	0	No	0	.067	.218	.802	.238	.565	.554	.011	.225	1.761	.249	.052	2.143	
2	0.1	0	0	0.2	0	0.01	0.5	0	No	8	.130	.340	.768	.227	.540	.570	030	.321	1.881	.480	.093	2.202	
<u> </u>	01	<u> </u>	n	02	0	0.05	05	0	No		±.057	±141	±071	±.047	±.031	±.076	±.098	±.106	±.457	±194	±037	±.215	
						0.05	0.5			Ŭ	±.014	±049	±031	±.023	±.010	±.037	±045	±.034	±211	±.100	±011	±.133	
2	0.1	0	0	0.2	ŋ	0.1	0.5	0	No	0	.085 + 017	.200 + 057	.796	.232	.564	.563	.001 + 045	.248 + 024	1.819 + 189	.285	.075	2.145	
2	0	0	0	0.5	0	0.01	0.5	0	No	19	##	##	##	##	##	##	##	.339	2.232	.690	##	NH	
2	0	0	0	0.5	0	0.05	0.5	0	No	4	.051	.187	.753	.201	.552	.613	061	±.023	±.016 2.052	±.070	.040	2.281	
											±.025	±.065	±.020	±.011	±.011	±.019	±.029	±.033	±.156	±.088	±.013	±.058	
2	0	0	0	0.5	0	0.1	0.5	0	No	0	.054 ±.026	.195 ±.053	.767 ±.022	.210 ±.013	.557 ±.009	.595 ±.022	039 ±.030	.270 ±.023	2.028 ±.152	.380 ±.091	.048 ±.016	2.223 ±.082	
2	0.1	0	0	0.5	0	0.01	0.5	0	No	16	.285	.522	.774	.260	.514	.596	082	1.049	1.637	.713	.119	2.173	
											±236	±200	±.034	±057	±039	±.053	±078	±1.58 7	±395	±.167	±.102	±.221	
2	0.1	0	0	0.5	0	0.05	0.5	0	No	4	.089	.241	.736	.193	.543	.623	080	.287	2.098	.442	.084	2.341	
2	0.1	0	0	0.5	0	0.1	0.5	0	No	0	±.019	±069	.761	±.012	±.013	±.023	±.034	.269	2.064	±.100	±018 .079	2.249	
L											±017	±.042	±.021	±.012	±010	±.023	±.032	±.027	±191	±.072	±.014	±.070	

2 0 0 0.5	0 0.1 0.01	0.5 0	No	0	.009	.008	1.004	.601	.403	.014	.389	.056	1.049	.091	.005	1.000
2 0 0 0.5	0 0.1 0.05	0.5 0	No	0	.030	.037	1.007	.607	.401	.048	.352	.066	1.043	.099	.027	.995
					±007 :	±.008	±.003	±.005	±.003	±.006	±006	±.009	±.008	±.009	±007	±008
2 0 0 0.5	0 0.1 0.1	0.5 0	No	0	.061 +015 ·	.071 + 014	1.018	.617	.401 +006	.095	.306	.082	1.034	.112	.059	.991 +014
2 0.1 0 0.5	0 0.1 0.01	0.5 0	No	0	.087	.023	1.022	.621	.401	.063	.338	.091	1.044	.095	.092	.995
2 01 0 05	0 01 005	05 0	-		±155 :	±.057	±082	±.090	±008	±168	±176	±054	±.016	±.028	±.190	±.022
2 0.1 0 0.5	0 0.1 0.05	0.5 0	110	0	±.012 :	±.009	±.004	±.005	±002	.050 ±.006	±007	±015	±.010	±011	±012	.999 ±.006
2 0.1 0 0.5	0 0.1 0.1	0.5 0	No	0	.086	.073	1.021	.623	.398	.102	.296	.100	1.025	.103	.086	.983
2 0 0 05	0 02 001	05 0	No		±.015 :	±.018	±.008	±013	£008	±.014	±.018	±.020	±.015	±.019	±.018	±.020
					±.002 :	±.002	±.001	±.000	±.001	±.001	±.001	±.004	±.003	±.007	±002	±.001
2 0 0 0.5	0 0.2 0.05	0.5 0	No	0	.031	.040	1.006	.605	.401	.039	.361	.061	1.052	.097	.030	.995
2 0 0 0.5	0 0.2 0.1	0.5 0	No	0	.070	.087	1.017	.616	.402	.082	.319	.081	1.044	.120	.068	.995
0.01.0.05	0.00.001				±013 :	±014	±.007	±.007	±004	±.009	±010	±016	±.013	±.022	±.014	±011
2 0.1 0 0.5	0 0.2 0.01	0.5 0	NO	1	.059 ±.015 :	.022 ±.024	1.004 ±.009	.603 ±.011	.402 ±.002	.026 ±.024	.376 ±.025	.078 ±010	1.053 ±.005	.092 ±009	.060 ±019	.998 ±.008
2 0.1 0 0.5	0 0.2 0.05	0.5 0	No	0	.063	.039	1.006	.605	.401	.042	.359	.082	1.050	.098	.062	.997
2 01 0 05	0 02 01	05 0	Not	0	±.006 :	±.008	±.002	±.003	±.003	±.005	±005	±014	±.004	±.010	±.010	±.006
2 0.1 0 0.5	0 0.2 0.1	0.0 0		Ŭ	±.016 :	±.021	±.007	±.010	±005	±.009	±012	±019	±.009	±.021	±021	±.011
5 0 0 0.5	0 0.2 0.01	0.5 0	No	0	.008	.021	1.002	.591	.411	.027	.384	.059	1.088	.081	.004	1.007
5 0 0 0.5	0 0.2 0.05	0.5 0	No	0	.025	.046	1.005	.594	.411	.048	.364	.062	1.087	.088	.023	1.006
<u> </u>	<u> </u>	-0.5 - 0			±005 :	±.009	±003	±.004	±.002	±.006	±007	±005	±.006	±008	±.007	±.005
5 0 0 0.5	0 0.2 0.1	0.5 0	NO	0	.050 ±013 :	.084 ±015	1.018 ±.006	.608 ±.008	.410 ±.005	.089 ±.012	.321 ±014	.077 ±.012	1.076 ±.010	.106 ±.021	.051 ±016	1.001 ±010
5 0.1 0 0.5	0 0.2 0.01	0.5 0	No	1	.054	.026	1.001	.590	.412	.035	.377	.077	1.086	.087	.053	1.009
5 01 0 05	0 02 005	05 0	No		±.007 :	±.006	±.004	±006	±.003	±.005	±004	±.009	±011	±.021	±.008	±.008
5 0.1 0 0.5	0 0.2 0.05	0.5 0	140	Ů	±.008 :	±.007	±.003	±.005	±.003	±.005	±006	±.008	±.009	±011	±.009	±.007
5 0.1 0 0.5	0 0.2 0.1	0.5 0	No	0	.069	.080	1.018	.(n7	.411	.088	.323	.098	1.083	.116	.066	.997
2 0 1 0.5	0 0.1 0.01	0.5 0	No	0	.021	.025	1.013	.599		.046	.368	.138	1.087	.080	.012	1.001
	0 01 005	~ ~ ~			±.004	±.002	±.001	±.002	±.001	±.003	±.002	±.005	±.006	±.005	±.004	±002
2 0 1 0.5	0 0.1 0.05	0.5 0	No	0	.055 ±012 :	.045 ±.008	1.018 ±006	.60% ±.009	.412	.073 ±.010	ودد. ±010	.149 ±.013	1.082 ±012	.091 ±012	.050 ±.013	.996 ±011
2 0 1 0.5	0 0.1 0.1	0.5 0	No	0	.108	.076	1.042	.637	.405	.116	.288	.192	1.062	.115	.093	.970
2 01 1 05	0 01 001	05 0	No	0	±028 :	±.016	±012	±.017	±008	±.018	±019	148	$\pm 027$ 1.087	±.017	±024	±017
2 0.1 1 0.5	0 0.1 0.01	0.0 0		Ŭ	±.007	±.003	±.002	±.003	±.001	±.004	±003	±.008	±.008	±.005	±.009	±.003
2 0.1 1 0.5	0 0.1 0.05	0.5 0	No	0	.077	.047	1.019	.606	.413	.075	.338	.161	1 086	.090	.075	.994 + 010
2 0.1 1 0.5	0 0.1 0.1	0.5 0	No	0	.112	.075	1.035	.628	.407	.118	.289	.186	1.071	.108	.112	.975
	<u> </u>				±.020 :	±013	±.013	±.016	±.007	±.016	±018	±.024	±017	±.022	±.023	±.018
2 0 1 0.5	0 0.1 0.01	0.2 0	NO	U	.009 ±.002 :	.030 ±.002	$\pm .010$	.586 ±.002	.424 ±001	.088 ±.003	336. ±002	.124 ±.004	$\pm .006$	.073 ±006	.006 ±.002	1.017 ±.002
2 0 1 0.5	0 0.1 0.05	0.2 0	No	0	.031	.047	1.013	.589	.424	.098	.325	.128	1.098	.085	.028	1.015
2 0 1 05	0 01 01	02 0	No	- 0	±.008 :	±.006	±.004	±.006	±.003	±008	±.008	±009	$\pm 012$ 1.081	±.013	±.009	±.007
		0.2 0			±.016 :	±.017	±.010	±.011	±.004	±013	±.013	±.017	±016	±.018	±.020	±011
2 0.1 1 0.5	0 0.1 0.01	0.2 0	No	0	.055	.032 + 003	1.010	.585	.424	.090	.334 + 004	.135	1.101	.073 +.004	.056 ±.011	1.017
2 0.1 1 0.5	0 0.1 0.05	0.2 0	No	0	.064	.048	1.016	.593	.422	.104	.318	.138	1.097	.077	.064	1.009
2 01 1 05	0 01 01	02 0	Na		±.008 :	±.008	±.004	±.006	±.003	±.005	±.006	±.008	±011	±.006	±.009	±.007
2 0.1 1 0.5	0 0.1 0.1	0.2 0	INO	U	±.013 :	.077 ±.012	±013	.012 ±017	.419 ±.005	±.015	±01 (	±.019	±021	±.023	.000 ±.015	±.018
2 0 1 0.5	0 0.2 0.01	0.2 0	No	0	.031	.037	.987	.554	.433	.079	.354	.089	1.146	.067	.015	1.048
2 0 1 0.5	0 0.2 0.05	0.2 0	No	0	.045	.057	±.001	.562		±.002	.345	±.003	1.141	.083	.032	1.039
					±.009	±002	±003	±.006	±.003	±.004	±.006	±.009	±.009	±.014	±.010	±008
2 0 1 0.5	0 0.2 0.1	0.2 0	No	0	.067 +.015 ·	.093 +.021	1.010	.563	.427	.112	.315	.118 + 018	1.123 + 018	.113 ±034	.059 ±.014	1.022 ±.016
2 0.1 1 0.5	0 0.2 0.01	0.2 0	No	1	.083	.049	.991	.561	.430	.085	.345	.105	1.144	.068	.082	1.042
2 01 1 05	0 00 005	02 0	Nu		±.090 :	±.034	±.011	±.024	±.012	±.026	±.038	±.006	±.008	±.005	±.109	±°/3
2 0.1 1 0.5	0 0.2 0.05	0.2 0	NO	U	.070 ±.010 :	.057 ±.008	.992 ±.005	.560 ±.007	.431 ±.004	.088 ±.004	.343 ±.006	.107 ±.008	1.143 ±.009	.080 ±.016	.065 ±.012	1.041 ±.011
2 0.1 I 0.5	0 0.2 0.1	0.2 0	No	0	.089	.089	1.012	.585	.427	.116	.312	.133	1.123	.108	.078	1.023
2 0 0 0.5	0 0 0 0 1	0.5 0	Yes	0	±.017 : 208.0	±013	±.017	±.021 100.9	±.006	±018 119.5	±.021	±.031 4.599	±.018 .684	±.022	±.014 225.3	±.020 
		V		Ŭ	73 :	±191	±.572	46	100.1	80	219.7	±7.29	±.245	±.057	67	±.388
					±347. 701			±168. 390	80 +169	±200. 744	59 +360	5			±376. 311	
					/ /7			570	827	, 11	571				551	

2 0		0.5	0	0 0.05	0.5		Var		272 0	- 102	600	172 5		100 7		6 6 5 5	272	207	AIE A	275	-
2 0	U	0.5	U	0 0.05	0.5	U	ies	0	576.9 M	+ 185	+634	70	1727	190.7	3714	+8 58	+ 253	+ 060	01	+ 353	
									+458	2.00	2001	+208	50	+330	53	5		1.000	+770		
									821			447	+298	478	+636	5			557		
									<b>.</b>				890	1.0	290						
2 0	0	0.5	0	0 0.1	0.5	0	Yes	0		227	.584	650.2		684.7	##3	9.324	-584	.409	***	.166	
	-		-		0.0	•		•		±191	±.527	33	649.6	00		±12.3	±.220	±.060		±.269	
												±113	49	±116		85					
												9.949	±114	3.787							
													0.181								
2 0.1	0	0.5	0	0 0.01	0.5	0	Yes	0	135.0	.332	.857	65.59	•	77.43	-	3.057	.742	.390	146.3	.400	-
									77	±156	±.530	6	64.73	4	142.1	±5.98	±.213	±.054	47	±366	
									±286.			±138.	9	±165.	73	9			±309.		
									412			649	±139.	271	±304.				945		
													017		288		_				
2 0.1	0	0.5	0	0 0.05	0.5	0	Yes	0	144.1	.313	.985	68.60	•	79.94	-	2.875	.759	.366	157.4	.480	
									47	±136	±521	9	67.62	7	147.5	±5.81	±208	±056	00	±394	
									12250.			±141.	4	±167.	1200	3			±321.		
									/03			497	II41.	400	1009.				350		
2 01		<u> </u>		0 01	AE		-			170	- 577		717	2 4 4 4	30%	15 72	520	404		002	_
2 0.1	v	0.5	U	0 0.1	0.5	0	163	0	***	+ 170	+ 540	***	***	***	***	15.20	+ 227	+040	***	.002	
										1/9	1					+20 6	1.2.37	1.002	1	1.150	
																76			1		
2 0	0	1	0	0 0 01	05	0	Yes	2	-	242	224	***	***	***	***	23.25	534	569	-	003	
	v	•	v	0 0.01	0.5	v	100	-		+ 231	+279					0	+265	+.105		+.007	
																±39.0					
																92					
2 0	0	1	0	0 0.05	0.5	0	Yes	0	###	.021	.025	#2#	***	###	###	460.4	.246	.458	***	.000	
										±.076	±.068					69	±.150	±.162		±.000	
																±906.					
																022				_	
2 0	0	1	0	0 0.1	0.5	0	Yes	0	###	.000	.003	***	###	###	###	***	.117	.319	###	.000	_
										±.000	±004						±041	±.059		±.000	
2 0.1	0	1	0	0 0.01	0.5	0	Yes	2	***	.236	.269	***	###	***	###	22.37	.522	.550	###	.018	
										±.245	±.326					2	±271	±.144		±.050	
																±32.6					
																40					
2 0.1	0	1	Û	0 0.05	0.5	0	Yes	0		.001	.005	###	###	###	***	635.3	196	.409	###	.000	
								v								0.1					
								Ū		±.002	±007					01	±.097	±098		±000	
								Ū		±.002	±.007					01 ±103	±097	±098		±000	
2 01	0			0 01	05		Yes	0		±.002	±.007	<i></i>	***		***	01 ±103 5.409	±097	±098	***	±000	
2 0.1	0	1	0	0 0.1	0.5	0	Yes	0	***	±.002 .000 ±.000	±007 .002 ±002	***	***	###	***	01 ±103 5.409	±.097	±.098 .331 ±.050	###	±.000 .000 ±.000	
2 0.1	0	1	0	0 0.1	0.5	0	Yes	0	###	±.002 .000 ±.000	±.007 .002 ±.002 .748	.196	###	###	###	01 ±103 5.409 ###	±.097 .124 ±.042 1.997	±.098 .331 ±.050 .358	.033	±000 .000 ±000 2.343	
2 0.1 2 0	0	1	0	0 0.1	0.5 0.5	0	Yes	0	### .033 ±.004	±.002 .000 ±.000 .186 ±.013	±007 .002 ±002 .748 ±008	### .196 ±004	### .552 ±004	### .620 ±.006	### 068 ±.010	01 ±103 5.409 ### 266 ±.011	.124 ±097 .124 ±042 1.997 ±073	±098 .331 ±050 .358 ±043	### .033 ±.005	±000 ±000 2.343 ±038	
2 0.1 2 0 2 0	0 0 0	1 0 0	0	0 0.1	0.5	0	Yes Yes Yes	0	.033 ±.004	±.002 .000 ±.000 .186 ±.013 .194	±007 .002 ±002 .748 ±008 .750	### .196 ±004 .198	### .552 ±004	### .620 ±.006 .617	068 ±.010 065	01 ±103 5.409 ### 266 ±.011 .2%	.124 ±097 1.997 ±073 1.969	±098 .331 ±050 .358 ±043 .391	.033 ±.005 .038	±000 ±000 2.343 ±038 2.318	
2 0.1 2 0 2 0	0 0 0	1 0 0	0 0.1 0.1	0 0.1 0 0.01 0 0.05	0.5 0.5 0.5	0	Yes Yes Yes	0	.033 ±004 .040 ±0.38	±.002 .000 ±.000 .186 ±.013 .194 ±.018	±007 .002 ±002 .748 ±008 .750 ±012	### .196 ±004 .198 ±006	### .552 ±004 .553 ±006	### .620 ±006 .617 ±011	++++ 068 ±010 065 ±017	01 ±103 5.409 ### 266 ±011 276 ±015	1.124 ±.097 ±.042 1.997 ±.073 1.969 ±.091	±.098 .331 ±.050 .358 ±.043 .391 ±.049	### .033 ±.005 .038 ±.007	±000 ±000 2.343 ±038 2.318 ±039	
2 0.1 2 0 2 0 2 0	0 0 0	1 0 0	0 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1	0.5 0.5 0.5	0 0 0 0	Yes Yes Yes Yes	0	.033 ±004 .040 ±038 .068	±.002 ±.000 1.186 ±.013 .194 ±.018 2.50	±007 .002 ±002 .748 ±008 .750 ±012 .760	### .196 ±004 .198 ±006 .207	### .552 ±004 .553 ±006 .553	### .620 ±006 .617 ±011 .601	++++ 068 ±.010 065 ±.017 049	01 ±103 5.409 ### 266 ±.011 .2%6 ±.015 .268	1.997 1.24 ±.042 1.997 ±.073 1.969 ±.091 1.874	±098 .331 ±050 .358 ±043 .391 ±049 .396	### .033 ±.005 .038 ±.007 .052	±000 .000 ±000 2.343 ±038 2.318 ±039 2.284	
2 0.1 2 0 2 0 2 0	0 0 0 0	1 0 0	0 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1	0.5 0.5 0.5	0 0 0 0	Yes Yes Yes Yes	0 0 0 0	### .033 ±.004 .040 ±.038 .068 ±.030	±.002 .000 ±.000 .186 ±.013 .194 ±.018 250 ±.044	±007 .002 ±002 .748 ±008 .750 ±012 .760 ±025	### .196 ±004 .198 ±006 207 ±.015	### .552 ±.004 .553 ±.006 .553 ±.010	### .620 ±.006 .617 ±.011 .601 ±.026	++++ 068 ±010 065 ±017 049 ±.035	01 ±103 5.409 ### 266 ±011 276 ±015 268 ±016	.124 ±097 ±042 1.997 ±073 1.969 ±091 1.874 ±180	±098 .331 ±050 .358 ±043 .391 ±049 .396 ±042	### .033 ±.005 .038 ±.007 .052 ±.012	$\pm 000$ $\pm 000$ 2.343 $\pm 0.38$ 2.318 $\pm 0.39$ 2.284 $\pm 0.61$	
2 0.1 2 0 2 0 2 0 2 0 2 0.1	0 0 0 0	1 0 0 0	0 0.1 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1 0 0.01	0.5 0.5 0.5 0.5	0 0 0 0 0 0	Yes Yes Yes Yes Yes	0 0 0 0	.033 ±004 .040 ±0.38 .068 ±030 .074	±.002 ±.000 ±.000 .186 ±.013 .194 ±.018 250 ±.044 203	±007 .002 ±002 .748 ±008 .750 ±012 .760 ±025 .753	### .196 ±004 .198 ±006 .207 ±015 .199	### .552 ±004 .553 ±006 .553 ±010 .553	### .620 ±006 .617 ±011 .601 ±026 .614	++++ 068 ±010 065 ±017 049 ±035 060	01 ±103 5.409 ### 266 ±011 276 ±015 268 ±016 273	124 ±097 1.997 ±073 1.969 ±091 1.874 ±180 1.983	±098 .331 ±050 .358 ±043 .391 ±049 .396 ±042 .370	### .033 ±005 .038 ±007 .052 ±012 .074	$\pm 000$ $\pm 000$ 2.343 $\pm 0.38$ 2.318 $\pm 0.39$ 2.284 $\pm 0.61$ 2.309	
2 0.1 2 0 2 0 2 0 2 0 2 0.1	0 0 0 0	1 0 0 0	0 0.1 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1 0 0.01	0.5 0.5 0.5 0.5	0 0 0 0 0 0	Yes Yes Yes Yes	0 0 0 0	.033 ±004 .040 ±0.38 ±030 .074 ±010	$\pm .002$ $\pm .000$ $\pm .000$ .186 $\pm .013$ .194 $\pm .018$ .250 $\pm .044$ 203 $\pm .044$ 203 $\pm .019$	±007 .002 ±002 .748 ±008 .750 ±012 .760 ±025 .753 ±010	### .196 ±004 .198 ±006 .207 ±015 .199 ±005	### .552 ±004 .553 ±006 .553 ±010 .553 ±005	### .620 ±006 .617 ±011 .601 ±026 .614 ±011	++++ 068 ±.010 065 ±.017 049 ±.035 060 ±.015	01 ±103 5.409 ### 266 ±.011 276 ±015 268 ±016 273 ±015	1.124 ±.097 ±.042 1.997 ±.073 1.969 ±.091 1.874 ±.180 1.983 ±.096	±098 .331 ±050 .358 ±043 .391 ±049 .396 ±042 .370 ±050	### .033 ±005 .038 ±007 .052 ±012 .074 ±014	$\pm 000$ $\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$	
2 0.1 2 0 2 0 2 0 2 0 2 0.1 2 0.1	0 0 0 0 0	1 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1 0 0.01 0 0.05	0.5 0.5 0.5 0.5 0.5	0 0 0 0 0	Yes Yes Yes Yes Yes	0 0 0 0 0	### .033 ±004 .040 ±C38 ±030 .074 ±010 .073	±.002 ±.000 ±.000 .186 ±.013 ±.018 2.504 ±.018 2.504 ±.019 2.114	±007 .002 ±002 .748 ±008 ±012 .750 ±012 .753 ±010 .750	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198	### .552 ±004 .553 ±006 .553 ±010 .553 ±005 .551	### .620 ±006 .617 ±011 .601 ±026 .614 ±011 .615	++++ 068 ±.010 065 ±.017 049 ±.035 060 ±.015 063	01 ±103 5.409 ### 266 ±011 276 ±015 268 ±016 273 ±015 275	$\pm .097$ $\pm .097$ $\pm .042$ $\pm .042$ $\pm .073$ $\pm .073$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .093$ $\pm .096$ $\pm .096$ $\pm .096$	±098 .331 ±050 .358 ±043 .391 ±049 .396 ±042 .370 ±050 .369	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071	$\pm 000$ $\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315	
2 0.1 2 0 2 0 2 0 2 0 2 0.1 2 0.1 2 0.1	0 0 0 0 0 0	1 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1 0 0.01 0 0.05	0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0	Yes Yes Yes Yes Yes		### .033 ±004 .040 ±030 .074 ±030 .074 ±010 .073 ±000	$\pm .002$ .000 $\pm .000$ .186 $\pm .013$ .194 $\pm .018$ 250 $\pm .044$ 203 $\pm .019$ 214 $\pm .020$	$\pm 007$ .002 $\pm 002$ .748 $\pm 008$ .750 $\pm 012$ .760 $\pm 025$ .753 $\pm 010$ .750 $\pm 012$ .750 $\pm 012$	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198 ±007	### .552 ±004 .553 ±006 .553 ±010 .553 ±005 .551 ±006	### .620 ±006 .617 ±011 .601 ±026 .614 ±011 .615 ±012	++++ 068 ±010 065 ±017 049 ±035 060 ±015 063 ±018	01 ±103 5.409 ### 266 ±011 276 ±015 268 ±016 273 ±015 275 ±020	$\pm .097$ $\pm .097$ $\pm .042$ $\pm .073$ $\pm .073$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .091$ $\pm .093$ $\pm .096$ $\pm .094$ $\pm .094$	$\pm 098$ .331 $\pm 050$ .358 $\pm 043$ .391 $\pm 049$ .396 $\pm 042$ .370 $\pm 042$ .370 $\pm 050$ .369 $\pm 050$	### .033 ±.005 ±.007 .052 ±.012 .074 ±.014 .071 ±.014	$\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 048$ 5.257	
2 0.1 2 0 2 0 2 0 2 0 2 0.1 2 0.1 2 0.1	0 0 0 0 0 0 0	1 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1 0 0.01 0 0.05 0 0.1	0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0	Yes Yes Yes Yes Yes		### .033 ±004 .040 ±030 .074 ±030 .074 ±010 .073 ±006	$\pm .002$ .000 $\pm .000$ .186 $\pm .013$ .194 $\pm .018$ 250 $\pm .044$ 203 $\pm .019$ 214 $\pm .020$ 214 $\pm .020$	$\pm 007$ .002 $\pm 002$ .748 $\pm 008$ .750 $\pm 012$ .760 $\pm 025$ .753 $\pm 010$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 025$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 025$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 025$ .750 $\pm 012$ .750 $\pm 025$ .750 $\pm 012$ .750 $\pm 025$ .750 $\pm 012$ .750 $\pm 025$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 025$ .750 $\pm 012$ .750 $\pm 012$ .750 .750 .750 .750 .750 .750 .750 .750	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198 ±007 209	### .552 ±004 .553 ±006 .553 ±005 .551 ±006 .554	### .620 ±006 .617 ±011 .601 ±026 .614 ±011 .615 ±012 .600	++++ 068 ±010 065 ±017 049 ±035 060 ±015 063 ±018 046	01 ±103 5.409 ### 2666 ±011 27/6 ±015 268 ±016 273 ±015 275 ±020 268	$\pm .097$ $\pm .097$ $\pm .042$ $\pm .042$ $\pm .073$ $\pm .097$ $\pm .091$ 1.874 $\pm .180$ 1.983 $\pm .096$ 1.994 $\pm .094$ $\pm .094$ 1.923	$\pm 098$ .331 $\pm 050$ .358 $\pm 043$ .391 $\pm 049$ .396 $\pm 042$ .370 $\pm 050$ .369 $\pm 061$ .373 $\pm 051$	### .033 ±005 ±007 .052 ±012 .074 ±014 .071 ±009 .082	$\pm 000$ $\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 048$ 2.257 $\pm 044$	
2 0.1 2 0 2 0 2 0 2 0 2 0.1 2 0.1 2 0.1 2 0.1	0 0 0 0 0 0 0	1 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1 0 0.01 0 0.05 0 0.1	0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±030 .074 ±010 .073 ±006 .086 ±020	$\pm .002$ .000 $\pm .000$ .186 $\pm .013$ .194 $\pm .018$ $\pm .018$ $\pm .018$ $\pm .018$ $\pm .019$ .214 $\pm .020$ .214 $\pm .020$ .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2140 .2	±007 .002 ±07 .748 ±008 .750 ±012 .753 ±010 .750 ±012 .752 ±012 .762 ±012	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198 ±007 209 ±007	*** .352 ±004 .553 ±006 .553 ±005 .551 ±006 .554 ±007	### .620 ±006 .617 ±011 ±026 .614 ±011 .615 ±012 .600 ±016	**** 068 ±010 065 ±017 049 ±035 060 ±015 063 ±018 046 ±025	01 ±103 5.409 ### 2666 ±011 27/6 ±015 268 ±016 273 ±015 275 ±020 268 ±022	$\pm .097$ .124 $\pm .042$ 1.997 $\pm .073$ 1.969 $\pm .091$ 1.874 $\pm .180$ 1.983 $\pm .096$ 1.994 $\pm .094$ 1.923 $\pm .1923$	$\pm 098$ 3311 $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ 396 $\pm 042$ 370 $\pm 050$ 369 $\pm 050$ 369 $\pm 061$ 373 $\pm 071$	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 ±014 ±009 .082 ±017	$\pm 000$ $\pm 000$ 2.343 $\pm 0.38$ 2.318 $\pm 0.39$ 2.284 $\pm 0.61$ 2.309 $\pm 0.40$ 2.315 $\pm 0.48$ 2.257 $\pm 0.48$ 2.257 $\pm 0.42$	
2       0.1         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1	0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0 0.1 0 0.01 0 0.05 0 0.1 0 0.01 0 0.05 0 0.1 0 0.01	0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±030 .074 ±010 .073 ±006 .086 ±020 .055	$\pm .002$ .000 $\pm .000$ .186 $\pm .013$ .194 $\pm .018$ $\pm .018$ $\pm .018$ $\pm .018$ $\pm .019$ .214 $\pm .020$ .214 $\pm .020$ .214 .214 .214 .214 .214 .214 .214 .214	$\pm 007$ .002 $\pm 002$ .748 $\pm 008$ .750 $\pm 012$ .760 $\pm 025$ .753 $\pm 010$ .750 $\pm 012$ .750 $\pm 012$ .762 $\pm 012$ .762 $\pm 016$ .690	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198 ±007 209 ±010 .175	### .552 ±004 .553 ±006 .553 ±005 .553 ±005 .551 ±006 .554 ±007 .515	### .620 ±006 .617 ±011 ±026 .614 ±011 .615 ±012 .600 ±016 .651	+## 068 ±010 065 ±017 049 ±035 060 ±015 063 ±018 046 ±022 136	01 ±103 5.409 ### 2666 ±011 27/6 ±015 268 ±015 273 ±015 275 ±020 268 ±022 268 ±022	$\pm 097$ $\pm 097$ $\pm 097$ $\pm 073$ 1.969 $\pm 091$ 1.874 $\pm 180$ 1.983 $\pm 096$ $\pm 094$ $\pm 094$ 1.923 $\pm 111$ 2.213	$\pm 098$ $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ 396 $\pm 042$ 370 $\pm 050$ $\pm 050$ 369 $\pm 061$ 373 $\pm 071$ $\pm 071$	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058	$\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 2.284 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 048$ 2.257 $\pm 044$ 2.438 $\pm 065$	
2 0.1 2 0 2 0 2 0 2 0 2 0.1 2 0.1 2 0.1 2 0.1 2 0 2 0	0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2	0 0.1 0 0.01 0 0.05 0 0.1 0 0.01 0 0.05 0 0.1 0 0.01	0.5 0.5 0.5 0.5 0.5 0.5 0.5		Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±0.38 ±030 .074 ±010 .073 ±006 .086 ±020 .057 ±005 .057	$\pm .002$ $\pm .000$ .186 $\pm 013$ .194 $\pm 018$ 250 $\pm .044$ 203 $\pm .019$ 214 $\pm 020$ 246 $\pm .033$ 358 $\pm .0358$ $\pm .033$	$\pm 007$ $\pm 002$ $\pm 002$ .748 $\pm 008$ .750 $\pm 012$ .760 $\pm 012$ .753 $\pm 010$ .753 $\pm 010$ .750 $\pm 012$ .753 $\pm 0102$ $\pm 012$ .760 $\pm 012$ .750 $\pm 012$ .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750	### .196 ±004 .198 ±006 207 ±015 .199 ±007 209 ±010 .175 ±007	### .552 ±004 .553 ±006 .553 ±005 .551 ±005 .551 ±006 .554 ±007 .515 ±007	### .620 ±006 .617 ±011 .601 ±026 .614 ±011 .615 ±012 .600 ±016 .651 ±016 .651	++++ 068 ±010 065 ±017 049 ±035 060 ±015 063 ±018 046 ±022 136 ±019	01 ±103 5.409 ### 2666 ±011 27/6 ±015 268 ±016 273 ±015 275 ±020 268 ±022 268 ±022 291 ±015	$\pm 097$ $\pm 097$ $\pm 097$ $\pm 073$ $\pm 073$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 093$ $\pm 094$ $\pm 09$	$\pm 098$ 331 $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ 396 $\pm 049$ $\pm 050$ 369 $\pm 061$ $\pm 071$ $\pm 071$ $\pm 086$ $\pm 071$ $\pm 086$	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±017 .058	$\pm 000$ $\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.257 $\pm 044$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.312	
2       0.1         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0	0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.05         0       0.05         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.01         0       0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±030 .074 ±010 .073 ±006 .086 .086 .086 .0857 ±005 .074	$\pm .002$ 000 $\pm .000$ .186 $\pm .013$ .194 $\pm .018$ 2500 $\pm .0444$ 203 $\pm .019$ 2.144 $\pm .003$ .2466 $\pm .033$ .3588 $\pm .0155$ .3758 $\pm .0258$ $\pm .0258$	$\pm 007$ 002 $\pm 002$ .748 $\pm 008$ $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .753 $\pm 010$ .750 $\pm 012$ .750 $\pm 016$ .690 $\pm 018$ .721 $\pm 018$	### .196 ±004 .198 ±006 2007 ±015 .199 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±000 .198 ±005 .199 ±010 .198 ±005 .199 ±010 .198 ±005 .199 ±010 .198 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±005 .198 ±015 .198 ±015 .198 ±015 .198 ±015 .198 ±015 .198 ±015 .198 ±015 .198 ±015 .198 .198 ±015 .198 .198 .198 ±015 .198 ±015 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198	### .352 ±004 553 ±006 .553 ±006 .553 ±005 .551 ±005 .554 ±007 .515 ±009 .578	$\begin{array}{c} \text{###} \\ \text{.620} \\ \pm 006 \\ \text{.617} \\ \pm 011 \\ \text{.601} \\ \pm 026 \\ \text{.614} \\ \pm 011 \\ \text{.615} \\ \pm 012 \\ \text{.600} \\ \pm 016 \\ \text{.651} \\ \pm 010 \\ \text{.625} \\ \pm 010 \\ \text{.625} \end{array}$	**** 068 ±010 065 ±017 049 ±035 060 ±015 063 ±018 046 ±022 136 ±019 098 ±029	01 ±103 5.409 ### 2666 ±011 27/6 ±015 2688 ±016 2773 ±015 2775 ±020 2688 ±022 291 ±015 291 ±015	$\pm 097$ $\pm 097$ $\pm 042$ $\pm 042$ $\pm 073$ $\pm 097$ $\pm 099$ $\pm 099$ $\pm 099$ $\pm 099$ $\pm 099$ $\pm 099$ $\pm 099$ $\pm 099$ $\pm 1099$ $\pm 099$ $\pm 1099$ $\pm 099$ $\pm 1099$ $\pm 099$ $\pm 1111$ $\pm 2213$ $\pm 112$ 2.141 $\pm 099$	$\pm 098$ $\pm 098$ 3311 $\pm 050$ 3588 $\pm 043$ 3911 $\pm 049$ 396 $\pm 042$ 370 $\pm 042$ 370 $\pm 043$ $\pm 043$ 396 $\pm 043$ $\pm 043$ 336 $\pm 043$ $\pm 043$ 336 $\pm 043$ $\pm 043$ 370 $\pm 049$ $\pm 042$ $\pm 041$ 370 $\pm 0611$ -3733 $\pm 0711$ -4866 $\pm 0377$ -4886 $\pm 0485$ $\pm 0485$ $\pm 0485$ $\pm 049$ $\pm 048$ $\pm 048$	### .033 ±005 .038 ±007 .052 ±012 ±014 ±004 ±007 .058 ±017 .058 ±007 .078	$\pm 000$ $\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.257 $\pm 044$ 2.257 $\pm 044$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 057$	
2 0.1 2 0 2 0 2 0 2 0.1 2 0.1 2 0.1 2 0.1 2 0 2 0 2 0 2 0	0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.05         0       0.05         0       0.05         0       0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±C38 .068 ±030 .074 ±010 .073 ±006 .086 .086 ±020 .057 ±005 .074 ±005	$\pm .002$ 000 $\pm .000$ .186 $\pm .013$ .194 $\pm .018$ 250 $\pm .044$ 203 $\pm .019$ 2.14 $\pm .020$ 2.214 $\pm .020$ 2.214 $\pm .033$ .358 $\pm .015$ .375 $\pm .025$ .325 $\pm .025$ .325 $\pm .025$ .325 $\pm .025$ .325 $\pm .025$ .325 $\pm .025$ .325 $\pm .025$ .325 $\pm .025$ .325 $\pm .025$ .325 $\pm .025$ .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325 .325	$\pm 007$ 002 $\pm 002$ .748 $\pm 008$ 250 $\pm 012$ .750 $\pm 012$ .753 $\pm 010$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .750 $\pm 012$ .770 .690 $\pm 018$ .721 $\pm 018$ .721 $\pm 018$ .723	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198 ±007 209 ±010 .175 ±009 .194 ±009 .194	### .552 ±004 .553 ±006 .553 ±005 .551 ±006 .551 ±007 .515 ±007 .515 ±009 .527 ±009	$ \begin{array}{c}     ### \\     .620 \\     \pm 006 \\     .617 \\     \pm 011 \\     .601 \\     \pm 026 \\     .614 \\     \pm 011 \\     .615 \\     \pm 012 \\     .600 \\     \pm 016 \\     .651 \\     \pm 010 \\     .625 \\     .625 \\     .625 \\     .625 \\     .625 \\     .625 \\     .62$	++++ 068 ±.010 065 ±.017 049 ±.035 060 ±.015 063 ±.018 046 ±.022 136 ±.019 098 ±.009	01 ±103 5.409 ### 2666 ±011 22%6 ±015 2688 ±016 273 ±015 2755 ±020 2688 ±015 2755 ±020 2688 ±015 275 ±020 2691 ±015 2022 291 ±015 204 ±015 204	$\pm 097$ $\pm 097$ $\pm 042$ $\pm 042$ $\pm 042$ $\pm 073$ $\pm 097$ $\pm 094$ $\pm 094$ $\pm 094$ $\pm 094$ $\pm 094$ $\pm 094$ $\pm 011$ 2213 $\pm 1112$ 2.041	$\pm 098$ $\pm 050$ 3311 $\pm 050$ 3588 $\pm 043$ 3911 $\pm 049$ 3962 $\pm 0422$ 3700 $\pm 0500$ 3369 $\pm 0500$ 3369 $\pm 0500$ 3369 $\pm 0571$ 4866 $\pm 0377$ 4888 $\pm 0375$ 5000	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±007 .070 ±008	$\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 048$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 0.657$ 2.281	
2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0	0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.05         0       0.05         0       0.05         0       0.1	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±C38 .068 ±030 .074 ±010 .073 ±006 .074 ±010 .057 ±005 .074 ±011 .077 ±005	$\pm .002$ 000 186 $\pm .013$ 1.94 $\pm .018$ 2.50 $\pm .044$ 2.03 $\pm .044$ $\pm .019$ 2.14 $\pm .020$ 2.14 $\pm .020$ 2.14 $\pm .033$ 3.58 $\pm .015$ 3.375 $\pm .025$ 3.375 $\pm .025$ 3.375 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 025 0	$\pm 007$ .002 .748 $\pm 008$ .750 $\pm 012$ .760 $\pm 025$ .753 $\pm 010$ .753 $\pm 010$ .750 $\pm 025$ .753 $\pm 010$ .750 $\pm 025$ .753 $\pm 010$ .750 $\pm 025$ .753 $\pm 0102$ .750 $\pm 012$ .750 $\pm 012$ .753 $\pm 0102$ .753 $\pm 0102$ .753 .753 $\pm 0102$ .753 .750 .753 .750 .753 .750 .750 .753 .750 .753 .750 .753 .753 .750 .753 .753 .753 .753 .753 .753 .753 .753	### .196 ±004 .198 ±006 ±015 .199 ±005 .199 ±005 .198 ±007 209 ±010 .175 ±009 .194 ±008 .196 .196	### .552 ±004 .553 ±006 .553 ±005 .551 ±006 .554 ±007 .515 ±009 .527 ±008 .526 +007	$\begin{array}{c} \texttt{###} \\ \texttt{.620} \\ \pm 006 \\ \texttt{.617} \\ \pm 011 \\ \texttt{.601} \\ \pm 026 \\ \texttt{.614} \\ \pm 011 \\ \texttt{.615} \\ \pm 012 \\ \texttt{.600} \\ \pm 016 \\ \texttt{.651} \\ \pm 010 \\ \texttt{.625} \\ \pm 014 \\ \texttt{.622} \\ \texttt{.621} \end{array}$	++++ 068 ±.010 065 ±.017 049 ±.035 060 ±.015 063 ±.018 046 ±.025 136 ±.019 098 ±.022 095 +.016	01 $\pm 103$ 5.409 ### 2666 $\pm 011$ 2766 $\pm 015$ 2688 $\pm 016$ 2773 $\pm 015$ 2755 $\pm 020$ 2688 $\pm 0273$ $\pm 0291$ $\pm 0294$ $\pm 02$	1.097 ±.097 1.24 ±.042 1.997 ±.073 1.969 ±.091 1.874 ±.180 1.983 ±.096 1.994 ±.094 1.923 ±.111 2.213 ±.112 2.141 ±.097 2.096	$\pm 098$ $\pm 050$ 3311 $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ $\pm 042$ 370 $\pm 042$ 370 $\pm 050$ $\pm 050$ $\pm 051$ $\pm 071$ 488 $\pm 037$ 488 $\pm 065$ 500	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±014 .071 ±014 .071 ±017 ±017 ±017 .058 ±007 .070 ±008 .074 +009	$\pm 000$ .000 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 048$ 2.257 $\pm 048$ 2.438 $\pm 065$ 2.312 $\pm 057$ 2.281 $\pm 047$	
2 0.1 2 0 2 0 2 0 2 0.1 2 0.1 2 0.1 2 0 2 0 2 0 2 0 2 0 2 0	0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±0.38 .068 ±000 .074 ±010 .073 ±006 .086 ±020 .057 ±005 .074 ±011 .077 ±009 085	$\pm 002$ 000 $\pm 000$ 186 $\pm 013$ 194 $\pm 018$ 2504 $\pm 048$ 203 $\pm 019$ 214 $\pm 020$ 2465 $\pm 015$ 375 $\pm 025$ 386 $\pm 025$ 375	$\pm 007$ .002 $\pm 002$ .748 $\pm 008$ .750 $\pm 012$ .760 $\pm 025$ .753 $\pm 010$ .755 $\pm 012$ .753 $\pm 010$ .750 $\pm 025$ .753 $\pm 010$ .750 $\pm 025$ .753 $\pm 012$ .753 $\pm 012$ .753 .753 .753 .753 .753 .753 .753 .753	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .199 ±015 .199 ±005 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 .198 ±007 .198 .198 .198 ±007 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .194	### .552 ±004 .553 ±006 .553 ±006 .551 ±006 .551 ±006 .554 ±007 .515 5109 .527 ±008 .526 ±009 .526	$\begin{array}{c} \texttt{###}\\ \texttt{.620}\\ \pm 006\\ \texttt{.617}\\ \pm 011\\ \texttt{.601}\\ \pm 026\\ \texttt{.615}\\ \pm 012\\ \texttt{.600}\\ \pm 016\\ \texttt{.651}\\ \texttt{.6010}\\ \texttt{.625}\\ \pm 014\\ \texttt{.622}\\ \pm 014\\ \texttt{.622}\\ \pm 014\\ \texttt{.622}\\ \pm 014\\ \texttt{.624}\\ \end{array}$	++++ 068 ±010 065 ±017 049 ±035 063 ±018 046 ±015 063 ±018 046 ±022 136 ±019 098 ±022 095 ±016 025 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 065 063 016 046 016 049 015 063 046 016 046 016 046 016 046 016 046 016 046 046 016 046 016 046 046 016 046 016 046 016 046 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016 016	$\begin{array}{c} 01\\ \pm 103\\ 5.409\\ \hline 103\\ 5.409\\ \hline 103\\ \pm 015\\ \pm 015\\ 268\\ \pm 015\\ 275\\ \pm 020\\ 268\\ \pm 022\\ 2915\\ \pm 022\\ 2915\\ \pm 022\\ 294\\ \pm 027\\ 296\\ \pm 025\\ 294\\ \pm 025\\ 294\end{array}$	$\pm 097$ $\pm 097$ $\pm 097$ $\pm 073$ $\pm 073$ $\pm 091$ $\pm 093$ $\pm 094$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 094$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 094$ $\pm 097$ $\pm 094$ $\pm 097$ $\pm 094$ $\pm 094$ $\pm 094$ $\pm 097$ $\pm 094$ $\pm 094$	$\pm 098$ $\pm 050$ 3311 $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ 396 $\pm 043$ 396 $\pm 050$ 369 $\pm 0377$ 388 $\pm 0655$ 5500 $\pm 059$ 488	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .078 ±007 .070 ±008 .074 ±009 .074	$\pm 000$ $\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 044$ 2.257 $\pm 044$ 2.438 $\pm .065$ 2.312 $\pm .057$ 2.281 $\pm .047$ 2.423	
2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0	0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.01         0       0.05         0       0.1         0       0.01         0       0.01         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±C.38 .068 ±020 .074 ±010 .073 ±006 .086 ±020 .055 .074 ±011 .077 ±009 .085 ±012	$\pm 002$ 000 $\pm 000$ 186 $\pm 013$ 194 $\pm 018$ 250 $\pm 043$ $\pm 019$ 214 $\pm 020$ 2463 $\pm 015$ 375 $\pm 025$ 3866 $\pm 025$ 370 $\pm 025$ 570 $\pm 025$ 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570	±007 .002 ±002 .748 ±008 .750 ±012 .760 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 ±012 .750 .750 ±012 .750 .750 .750 .750 .750 .750 .750 .750 .750 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 .690 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±006 207 ±015 .199 ±005 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .199 ±010 .175 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 .198 ±007 .198 ±006 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198	### .552 ±004 .553 ±006 .553 ±006 .553 ±005 .551 ±006 .554 ±007 .515 509 .527 ±008 .526 ±007 .519	$\begin{array}{c} \texttt{###}\\ \texttt{.620}\\ \pm 006\\ \texttt{.617}\\ \pm 011\\ \texttt{.601}\\ \pm 012\\ \texttt{.615}\\ \pm 012\\ \texttt{.615}\\ \pm 012\\ \texttt{.651}\\ \pm 016\\ \texttt{.651}\\ \pm 016\\ \texttt{.625}\\ \pm 014\\ \texttt{.622}\\ \pm 014\\ \texttt{.622}\\ \pm 014\\ \texttt{.624}\\ \pm 014\\ \texttt{.624}\\ \texttt{.644}\\ \pm 011\\ \texttt{.644}\\ \texttt{.616}\\ \texttt{.644}\\ \texttt{.616}\\ \texttt{.644}\\ \texttt{.616}\\ \texttt{.644}\\ \texttt{.616}\\ \texttt{.644}\\ \texttt{.616}\\ \texttt{.644}\\ \texttt{.616}\\ \texttt{.616}\\ \texttt{.616}\\ \texttt{.644}\\ \texttt{.616}\\ .$	++++ 068 ±.010 065 ±.017 049 ±.035 063 ±.018 046 ±.022 136 ±.019 098 ±.022 098 ±.022 098 ±.022 098 ±.016 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 038 049 049 049 049 049 049 049 049 048 046 046 046 046 046 046 046 028 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 038 028 038 038 028 038 038 028 038 028 038 028 038 038 028 038 028 038 028 038 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 028 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$\pm 059$ 480 5500 $\pm 059$ 480 5500 $\pm 059$ 480 5500 $\pm 059$ 480 5500 $\pm 059$ 480 5500 $\pm 059$ 480 5500 $\pm 059$ 480 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 550	### 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2       0.1         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0.1	0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.01         0       0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		Yes Yes Yes Yes Yes Yes Yes Yes		### 033 ±004 040 ±030 074 ±010 073 ±006 086 ±020 057 ±005 074 ±011 077 ±009 085 ±012 091	$\pm 002$ $\pm 000$ $\pm 000$ 186 $\pm 013$ $\pm 018$ $\pm 018$ $\pm 018$ $\pm 018$ $\pm 019$ $\pm 020$ $\pm 025$ 375 $\pm 025$ 386 $\pm 025$ 375 $\pm 025$ 386 $\pm 025$ 375 $\pm 025$ 375 $\pm 025$ 386 $\pm 025$ 375 $\pm 025$ $\pm 025$ 375 $\pm 025$ 375 $\pm 025$ 375 $\pm 025$ 375 $\pm 025$ $\pm $	$\pm 007$ 002 $\pm 002$ .748 $\pm 008$ .750 $\pm 0125$ .753 $\pm 010$ .750 $\pm 025$ .753 $\pm 010$ .750 $\pm 025$ .753 $\pm 010$ .750 $\pm 012$ .762 $\pm 016$ .690 $\pm 012$ .723 $\pm 012$ .699 $\pm 012$ .723 $\pm 012$ .723	###           .196           ±004           .198           ±006           207           ±015           .199           ±005           .198           ±005           .198           ±007           209           ±010           .175           ±008           .196           ±006           .181           ±006           .194	### .552 ±004 .553 ±006 .553 ±005 .551 ±006 .554 ±007 .515 ±009 .527 ±008 .526 ±007 .519 ±008 .529	$\begin{array}{c} \text{###} \\ \hline \text{.620} \\ \pm 006 \\ \hline \text{.617} \\ \pm 011 \\ \hline \text{.601} \\ \pm 011 \\ \hline \text{.615} \\ \pm 012 \\ \hline \text{.615} \\ \pm 012 \\ \hline \text{.625} \\ \pm 016 \\ \hline \text{.651} \\ \pm 010 \\ \hline \text{.625} \\ \pm 014 \\ \hline \text{.622} \\ \pm 010 \\ \hline \text{.644} \\ \pm 011 \\ \hline \text{.626} \end{array}$	**** 068 ±010 065 ±017 049 ±035 063 ±015 063 ±018 046 ±022 136 ±.019 ±.019 ±.019 ±.022 095 ±.016 125 ±.016	$\begin{array}{c} 01\\ \pm 103\\ 5.409\\ \hline 103\\ 5.409\\ \hline 103\\ \pm 015\\ \pm 027\\ \pm 020\\ \pm 029\\ \pm 029\\ \pm 029\\ \pm 019\\ \pm 019$	$\pm 097$ $\pm 097$ $\pm 097$ $\pm 073$ $\pm 073$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 091$ $\pm 094$ $\pm 096$ $\pm 096$ $\pm 094$ $\pm 004$ $\pm 00$	$\pm 098$ 331 $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ 396 $\pm 049$ 396 $\pm 049$ 396 $\pm 049$ 3396 $\pm 061$ 3373 $\pm 071$ 488 $\pm 0659$ $\pm 0599$ 4059 $\pm 0599$ 4059 $\pm 0599$ 4844 $\pm 0559$ 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4059 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058 4058	### .033 ±005 ±007 052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±007 .070 ±008 ±017 .070 ±008 ±007 .074	$\pm 000$ $\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 040$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 044$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 044$ $\pm 065$ 2.312 $\pm 044$ $\pm 057$ 2.281 $\pm 047$ 2.423 $\pm 039$ $\pm 039$ 2.312 $\pm 047$ 2.319	
2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1	0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.05         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±030 .074 ±010 .073 ±006 ±020 .086 ±020 .057 ±005 .074 ±011 .077 ±009 .085 ±012 .091	$\pm .002$ 000 $\pm .000$ 1.86 $\pm .013$ 1.94 $\pm .018$ 2.03 $\pm .044$ 2.03 $\pm .044$ $\pm .033$ 3.588 $\pm .015$ 3.755 $\pm .0255$ 3.866 $\pm .0255$ 3.700 $\pm .018$ 3.0255 3.700 $\pm .0255$ 3.700 $\pm .0255$ 3.700 3.0263 $\pm .018$ 3.700 3.0263 $\pm .018$ 3.700 3.0263 $\pm .018$ 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018 018	$\pm 007$ 002 $\pm 002$ .748 $\pm 008$ .750 $\pm 0120$ .750 $\pm 025$ .753 $\pm 0100$ .750 $\pm 0122$ .753 $\pm 0100$ .750 $\pm 0122$ .753 $\pm 0100$ .7520 $\pm 0120$ .7520 $\pm 0120$ .6990 $\pm 0120$ .7233 $\pm 0110$ .7233 $\pm 0100$ .7233 $\pm 0100$ .7230 $\pm 0000$ .72300 $\pm 0000$ .72300 $\pm 0000$ .72300 $\pm 00000$ .72300 .723000 .723000000000000000000000000000000000000	$\begin{array}{c} \mbox{.196} \\ \pm 004 \\ 198 \\ \pm 004 \\ 207 \\ \pm 015 \\ 199 \\ \pm 005 \\ 199 \\ \pm 006 \\ 194 \\ \pm 006 \\ 1$	*** .352 ±004 553 ±006 .553 ±005 .553 ±005 .551 ±006 .554 ±009 .527 ±008 .526 ±007 .519 ±006	$\begin{array}{c} \mbox{###} \\ .620 \\ \pm 006 \\ .617 \\ \pm 011 \\ .601 \\ .601 \\ \pm 026 \\ .614 \\ \pm 011 \\ .615 \\ \pm 012 \\ .600 \\ \pm 016 \\ .651 \\ \pm 010 \\ .625 \\ \pm 010 \\ .626 \\ \pm 000 \\ \pm 000$	### 068 ±010 065 ±017 049 ±035 060 ±015 063 ±018 046 ±022 136 ±018 ±.022 136 ±.019 ±.025 ±.016 125 ±.016 097 ±.015	01 $\pm 103$ 5.409 # 266 $\pm 011$ 276 $\pm 015$ 268 $\pm 016$ 273 $\pm 015$ 275 $\pm 020$ 268 $\pm 022$ 291 $\pm 025$ 293 $\pm 025$ $\pm 025$ 293 $\pm 025$ $\pm 025$ 293 $\pm 025$ $\pm 025$ 293 $\pm 025$ $\pm 025$ 293 $\pm 025$ $\pm 025$ 293 $\pm 025$ $\pm 025$ 293 $\pm 025$ 293 $\pm 025$ 293 $\pm 025$ 293 $\pm 025$ 293 $\pm 025$ 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293	$\pm 097$ $\pm 097$ $\pm 097$ $\pm 073$ 1.969 $\pm 091$ 1.874 $\pm 180$ 1.983 $\pm 096$ 1.994 $\pm 094$ 1.923 $\pm 111$ 2.213 $\pm 112$ 2.141 $\pm 097$ 2.096 $\pm 098$ 2.144 $\pm 107$ 2.106	$\pm 098$ $\pm 050$ 331 $\pm 040$ 338 $\pm 043$ 391 $\pm 049$ 396 $\pm 042$ 370 $\pm 050$ $\pm 042$ 370 $\pm 050$ $\pm 061$ 373 $\pm 071$ 486 $\pm 037$ 488 $\pm 037$ 488 $\pm 037$ 488 $\pm 037$ 484 $\pm 053$ 478 $\pm 043$ 478	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±007 .058 ±007 .070 ±008 ±007 .074 ±009 .086 ±012 .094 ±013	$\pm 000$ $\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 044$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.317 $\pm 057$ 2.281 $\pm 047$ 2.423 $\pm 039$ 2.319 $\pm 051$	
2       0.1         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1	0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.01         0       0.05         0       0.05         0       0.1	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		### 0.33 ±004 0.40 ±0.38 0.074 ±010 0.073 ±006 0.085 ±020 0.057 ±005 0.057 ±005 ±005 0.074 ±005 0.077 ±009 0.085 ±012 0.091 ±011 ±011	$\pm 002$ $\pm 000$ 186 $\pm 013$ 194 $\pm 018$ 250 $\pm 044$ 203 $\pm 019$ 214 $\pm 009$ 214 $\pm 009$ 246 $\pm 033$ 375 $\pm 025$ 375 $\pm 025$ 370 $\pm 025$ 370 $\pm 038$ $\pm 038$	$\pm 007$ 002 $\pm 002$ .748 $\pm 008$ $\pm 012$ .750 $\pm 012$ .690 $\pm 012$ .690 $\pm 012$ .690 $\pm 012$ .690 $\pm 012$ .699 $\pm 011$ .723 $\pm 011$ .723 $\pm 011$ .727	$\begin{array}{c} \mbox{###} \\ .196 \\ \pm 004 \\ .198 \\ \pm 006 \\ 207 \\ .198 \\ \pm 005 \\ .199 \\ \pm 005 \\ .198 \\ \pm 005 \\ .198 \\ \pm 005 \\ .198 \\ \pm 000 \\ .175 \\ \pm 009 \\ .194 \\ \pm 006 \\ .181 \\ \pm 006 \\ .181 \\ \pm 006 \\ .181 \\ \pm 006 \\ .194 \\ \pm 006 \\ .194 \\ \pm 006 \\ .194 \\ \pm 006 \\ .199 \\ \end{array}$	*** .352 ±004 .553 ±006 .553 ±005 .551 ±005 .554 ±007 .515 ±009 .527 ±008 .526 ±007 .519 ±006 ±006 .529 ±006	$\begin{array}{c} \texttt{###} \\ \texttt{.620} \\ \pm .006 \\ \texttt{.617} \\ \pm .011 \\ \texttt{.601} \\ \texttt{.601} \\ \texttt{.615} \\ \texttt{± 012} \\ \texttt{.601} \\ \texttt{.615} \\ \texttt{± 010} \\ \texttt{.625} \\ \texttt{\pm 010} \\ \texttt{.626} \\ \texttt{\pm 010} \\ \texttt{.615} \end{array}$	**** 068 ±010 065 ±017 043 ±015 060 ±015 063 ±015 063 ±015 063 ±019 048 ±022 136 ±019 098 ±025 ±.016 098 ±.025 ±.016 097 ±.015 068	$\begin{array}{c} 01\\ \pm 103\\ 5.409\\ \hline \\ \pm 001\\ 22\%\\ \pm 015\\ 266\\ \pm 011\\ 22\%\\ \pm 015\\ 268\\ \pm 016\\ 273\\ \pm 015\\ 275\\ \pm 020\\ 268\\ \pm 022\\ 291\\ \pm 015\\ 294\\ \pm 027\\ 294\\ \pm 027\\ 294\\ \pm 027\\ 293\\ \pm 019\\ 297\\ \pm 025\\ 293\\ \pm 019\\ 297\\ \pm 025\\ 293\\ \pm 019\\ 297\\ \pm 026\\ 282\\ \end{array}$	$\pm 097$ $\pm 097$ $\pm 042$ $\pm 042$ $\pm 042$ $\pm 073$ $\pm 097$ $\pm 094$ $\pm 097$ $\pm 012$ $\pm 012$ $\pm 012$ $\pm 002$ $\pm 003$ $\pm 003$ $\pm 004$ $\pm 004$ $\pm 004$ $\pm 004$ $\pm 007$ $\pm 007$ $\pm 004$ $\pm 007$ $\pm 00$	$\pm 098$ $\pm 050$ $\pm 050$ $\pm 043$ 331 $\pm 043$ 391 $\pm 049$ 396 $\pm 042$ 370 $\pm 050$ $\pm 050$ $\pm 050$ $\pm 071$ 486 $\pm 037$ $\pm 050$ $\pm 050$ $\pm 050$ $\pm 050$ $\pm 050$ $\pm 050$ $\pm 050$ $\pm 071$ 486 $\pm 050$ $\pm 050$ $\pm 071$ 486 $\pm 050$ $\pm 071$ 488 $\pm 050$ $\pm 071$ 488 $\pm 050$ $\pm 071$ 488 $\pm 050$ $\pm 071$ 488 $\pm 050$ $\pm 071$ 488 $\pm 071$ 488 $\pm 050$ $\pm 071$ 488 $\pm 050$ $\pm 071$ 488 $\pm 073$ 478 $\pm 049$ $\pm 044$ $\pm 044$ $\pm 044$ $\pm 044$ $\pm 044$ $\pm 044$ $\pm 050$ $\pm 071$ 486 $\pm 050$ $\pm 071$ 486 $\pm 037$ 5500 $\pm 059$ 484 $\pm 048$ $\pm 048$ $\pm 048$ $\pm 049$ $\pm 044$ $\pm 04$	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±007 .070 ±008 ±007 .074 ±009 .086 ±012 .094 ±013 .095	$\pm 000$ $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 044$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 057$ 2.281 $\pm 0.47$ 2.281 $\pm 0.57$ 2.281 $\pm 0.57$ 2.280 2.280	
2       0.1         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1	0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.11         0       0.05         0       0.05         0       0.11         0       0.05         0       0.11         0       0.05         0       0.11         0       0.05         0       0.11         0       0.05         0       0.01         0       0.05         0       0.05         0       0.05         0       0.05         0       0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±C.38 .068 ±030 .074 ±010 .073 ±006 ±020 .057 ±005 .074 ±011 .077 ±009 .085 ±012 .091 ±010	$\pm 002$ 000 $\pm 000$ 186 $\pm 013$ 194 $\pm 018$ 250 $\pm 044$ 203 $\pm 019$ 214 $\pm 020$ 246 $\pm 033$ 358 $\pm 015$ 375 $\pm 025$ 386 $\pm 025$ 370 $\pm 025$ 383 $\pm 028$ 388 $\pm 028$ $\pm 028$ $\pm$	±007 .002 ±002 .748 ±008 ±012 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 ±010 .750 ±012 .753 .753 .753 .753 .753 .753 .753 .753 .753 .753 .753 .753 .753 .753 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .750 .690 .721 .723 .012 .723 .012 .723 .012 .723 .012 .723 .012 .723 .012 .723 .012 .723 .012 .727 .012 .723 .012 .727 .012 .723 .012 .727 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .012 .017 .017 .017 .017 .017 .017 .017 .017 .017 .017 .017	$\begin{array}{c} \mbox{.196} \\ \pm 004 \\ 198 \\ \pm 006 \\ 207 \\ \pm 015 \\ 199 \\ \pm 005 \\ 199 \\ \pm 005 \\ 199 \\ \pm 000 \\ 175 \\ \pm 009 \\ \pm 010 \\ 194 \\ \pm 006 \\ 194 \\ \pm 0006 \\ 194 \\ \pm 0006 \\ $	### .552 ±004 .553 ±006 .553 ±005 .551 ±006 .555 ±007 .515 ±007 .515 ±007 .515 ±007 .519 ±006 .529 ±006 .529 ±006	$\begin{array}{c} \texttt{###} \\ \texttt{.620} \\ \pm .006 \\ \texttt{.617} \\ \pm .011 \\ \texttt{.601} \\ \pm .026 \\ \texttt{.614} \\ \pm .011 \\ \texttt{.615} \\ \pm .012 \\ \texttt{.600} \\ \texttt{.615} \\ \pm .010 \\ \texttt{.625} \\ \pm .014 \\ \texttt{.622} \\ \pm .010 \\ \texttt{.644} \\ \pm .011 \\ \texttt{.626} \\ \pm .010 \\ \texttt{.615} \\ \pm .016 \end{array}$	**** 068 ±.010 065 ±.017 049 ±.035 060 ±.015 063 ±.018 042 ±.018 042 ±.019 *.098 ±.022 136 ±.019 *.098 ±.022 095 ±.016 019 *.098 ±.022 097 ±.015 065 ±.016 015 *.016 *.015 *.017 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.049 *.016 *.015 *.016 *.025 *.016 *.025 *.016 *.025 *.016 *.025 *.025 *.025 *.025	01 $\pm 103$ 5.409 ### 2666 $\pm 011$ 22/6 $\pm 015$ 268 $\pm 015$ 273 $\pm 015$ 275 $\pm 020$ 268 $\pm 016$ 273 $\pm 015$ 275 $\pm 022$ 291 $\pm 015$ 294 $\pm 025$ 293 $\pm 019$ 297 $\pm 026$ 297 $\pm 025$ $\pm 022$ 297 $\pm 025$ $\pm 022$ 297 $\pm 025$ $\pm 022$ 297 $\pm 025$ $\pm 022$ 297 $\pm 025$ $\pm 025$	$\pm 097$ $\pm 097$ $\pm 042$ $\pm 042$ $\pm 042$ $\pm 073$ $\pm 073$ $\pm 097$ $\pm 073$ $\pm 097$ $\pm 097$ $\pm 091$ $\pm 097$ $\pm 091$ $\pm 097$ $\pm 094$ $\pm 004$ $\pm 00$	$\pm 098$ $\pm 050$ 3311 $\pm 050$ 3588 $\pm 043$ 3911 $\pm 049$ 3912 $\pm 0432$ $\pm 0432$ $\pm 0422$ 3700 $\pm 0500$ 3369 $\pm 0500$ 3369 $\pm 0771$ 4886 $\pm 0373$ $\pm 0771$ 4886 $\pm 0037$ $\pm 0599$ 4844 $\pm 0533$ 4494 $\pm 0653$ $\pm 0599$ 4844 $\pm 0653$ $\pm 0059$ $\pm 0432$ $\pm 0432$ $\pm 0432$ $\pm 0432$ $\pm 0432$ $\pm 0432$ $\pm 0642$ $\pm 0$	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±007 .070 ±008 ±007 .070 ±008 ±009 ±008 ±012 .094 ±013 .095 ±014	$\pm 000$ .000 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 048$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 047$ 2.281 $\pm 047$ 2.281 $\pm 047$ 2.281 $\pm 039$ 2.319 $\pm 039$ 2.319 $\pm 051$ 2.280 $\pm 071$	
2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±C38 .068 ±030 .074 ±010 .073 ±006 .074 ±010 .073 ±006 .074 ±020 .057 ±005 .074 ±011 .077 ±005 .074 ±010 .057 ±005 .074 ±010 .057 ±005 .074 ±010 .057 ±005 .074 ±010 .057 ±005 .074 ±010 .057 ±005 .074 ±010 .057 ±005 .074 ±010 .075 .074 .086 ±020 .074 ±020 .074 .076 .076 .076 .076 .076 .076 .076 .076 .076 .076 .076 .076 .076 .076 .076 .077 .076 .076 .077 .076 .077 .076 .077 .077 .077 .076 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .077 .091 .075 .071 .077 .075 .077 .077 .079 .079 .079 .075 .071 .011 .075 .071 .011 .075 .011 .075 .011 .075 .011 .095 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .038 .011 .0138 .011 .0138 .011 .011 .0138 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011	$\pm 002$ 000 186 $\pm 013$ 194 $\pm 018$ 203 $\pm 019$ 214 $\pm 019$ 214 $\pm 020$ 246 $\pm 033$ 358 $\pm 015$ 375 $\pm 025$ 375 $\pm 025$ 376 $\pm 025$ 370 $\pm 020$ 363 $\pm 025$ 370 $\pm 020$ 363 $\pm 025$ 370 $\pm 025$ 388 $\pm 025$ 388 $\pm 025$ 388 $\pm 025$ 388 $\pm 0388$ $\pm 3388$ $\pm 33888$ $\pm 33888$ $\pm 33888$ $\pm 33888$ $\pm 33888$ $\pm 33888$ $\pm 33888$ $\pm 338888$ $\pm 33$	$\pm 007$ .002 .748 $\pm 008$ .750 $\pm 012$ .760 $\pm 025$ .753 $\pm 010$ .750 $\pm 012$ .753 $\pm 010$ .750 $\pm 012$ .762 $\pm 016$ .690 $\pm 018$ .721 $\pm 016$ .723 $\pm 011$ .723 $\pm 011$ .723 $\pm 011$ .727 $\pm 015$ .753 .750 .762 $\pm 012$ .762 $\pm 012$ .762 .753 .753 .753 .750 .762 $\pm 012$ .762 $\pm 016$ .773 $\pm 010$ .723 $\pm 010$ .725 .699 $\pm 011$ .727 .762 .753 .753 .753 .753 .753 .753 .753 .753	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .199 ±005 .198 ±007 209 ±010 .198 ±007 209 ±010 .198 ±006 .198 ±007 209 ±015 .199 ±015 .199 ±015 .199 ±015 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .196 ±006 .196 ±006 .196 ±006 .196 ±006 .197 ±006 .197 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .199 ±010 .194 ±006 .194 ±006 .194 ±006 .199	### .552 ±004 .553 ±006 .553 ±005 .551 ±005 .554 ±007 ±007 ±007 519 ±006 .527 ±006 .527 ±006 .527 ±006 .527	$\begin{array}{c} \texttt{###} \\ \texttt{.620} \\ \pm 006 \\ \texttt{.617} \\ \pm 011 \\ \texttt{.601} \\ \pm 026 \\ \texttt{.614} \\ \pm 011 \\ \texttt{.615} \\ \pm 012 \\ \texttt{.600} \\ \pm 016 \\ \texttt{.651} \\ \pm 010 \\ \texttt{.625} \\ \pm 014 \\ \texttt{.622} \\ \pm 014 \\ \texttt{.626} \\ \pm 010 \\ \texttt{.615} \\ \pm 010 \\ \texttt{.615} \\ \pm 016 \\ \texttt{.626} \end{array}$	**** 068 ±.010 065 ±.017 049 ±.035 060 ±.015 063 ±.018 046 ±.015 063 ±.018 046 ±.022 098 ±.019 098 ±.019 098 ±.019 098 ±.019 095 ±.016 097 ±.015 068 ±.022 097 ±.015 068 ±.022 097 ±.016 068 ±.022 098 ±.016 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 068 ±.019 058 ±.016 068 ±.019 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.015 058 ±.015 058 ±.022 058 ±.015 058 ±.025 058 ±.025 058 ±.025 058 ±.025 058 ±.025 058 ±.025 058 ±.025 058 ±.025 058 ±.025 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 2	$\begin{array}{c} 01\\ \pm 103\\ 5.409\\ \hline 103\\ 5.409\\ \hline 103\\ \pm 015\\ 2266\\ \pm 011\\ 2276\\ \pm 015\\ 268\\ \pm 015\\ 2775\\ \pm 020\\ 268\\ \pm 025\\ 291\\ \pm 015\\ 294\\ \pm 027\\ 294\\ \pm 027\\ 294\\ \pm 025\\ 293\\ \pm 019\\ 297\\ \pm 026\\ 282\\ \pm 025\\ 293\\ \pm 019\\ 297\\ \pm 026\\ 5.336\\ \hline \end{array}$	$\begin{array}{r} \pm 097\\ \pm 097\\ 1.24\\ \pm 042\\ 1.997\\ \pm 073\\ 1.969\\ \pm 091\\ 1.874\\ \pm 1997\\ \pm 091\\ 1.874\\ \pm 1983\\ \pm 096\\ 1.994\\ \pm 006\\ \pm 0.10\\ 1.983\\ \pm 0.10\\ 1.983\\$	$\pm 098$ $\pm 050$ 3311 $\pm 050$ 358 $\pm 043$ 3911 $\pm 049$ 3961 $\pm 042$ 3700 $\pm 042$ 3700 $\pm 042$ 3700 $\pm 042$ 3700 $\pm 042$ 3700 $\pm 042$ $\pm 042$ 3700 $\pm 042$ $\pm 042$ 3700 $\pm 042$ $\pm 042$ 3703 $\pm 042$ $\pm 050$ $\pm 077$ $\pm 0500$ $\pm 0500$ $\pm 0500$ $\pm 0500$ $\pm 0500$ $\pm 0500$ $\pm 0424$ $\pm 0533$ 4494 $\pm 0643$ $\pm 0494$ $\pm 0643$ $\pm 0494$ $\pm 0643$ $\pm 0449$ $\pm 0643$ $\pm 0644$ $\pm 0643$ $\pm 0644$ $\pm 0643$ $\pm 0644$ $\pm 0644$	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±007 .070 ±008 .074 ±008 .074 ±009 .086 ±012 .094 ±013 .095 ±013	$\pm 000$ .000 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 048$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 047$ 2.281 $\pm 047$ 2.423 $\pm 047$ 2.319 $\pm 047$ 2.319 $\pm 047$ 2.328 $\pm 047$ 2.328 $\pm 047$ 2.329 $\pm 057$ 2.329 $\pm 047$ 2.329 $\pm 057$ 2.329 $\pm 047$ 2.329 $\pm 057$ 2.329 $\pm 047$ 2.329 $\pm 057$ 2.329 $\pm 047$ 2.329 $\pm 057$ 2.329 $\pm 047$ 2.323 $\pm 057$ 2.329 $\pm 057$ 2.329 $\pm 047$ 2.323 $\pm 057$ 2.329 $\pm 057$ 2.329 $\pm 057$ 2.329 $\pm 057$ 2.329 $\pm 057$ 2.343	
2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0         0.1           0         0.01           0         0.05           0         0.1           0         0.01           0         0.01           0         0.01           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05           0         0.01           0         0.05           0         0.01           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±C38 .068 ±030 .074 ±010 .073 ±006 .086 ±020 .074 ±010 .073 ±006 .085 ±020 .074 ±011 .077 ±005 ±012 .095 ±012 .091 ±011 .095 ±010 .138 ±002	$\pm 002$ 000 186 $\pm 013$ 194 $\pm 018$ 203 $\pm 044$ 203 $\pm 019$ 214 $\pm 020$ 243 $\pm 019$ 214 $\pm 020$ 243 $\pm 015$ 375 $\pm 025$ 375 $\pm 025$ 375 $\pm 025$ 375 $\pm 025$ 375 $\pm 025$ 370 $\pm 025$ 370 $\pm 025$ 370 $\pm 025$ 370 $\pm 025$ 370 $\pm 025$ 370 $\pm 025$ 370 $\pm 025$ 370 $\pm 020$ 363 $\pm 018$ $\pm 0363$ $\pm 018$ $\pm 025$ 370 $\pm 020$ 363 $\pm 018$ $\pm 0388$ $\pm 020$ 363 $\pm 014$	$\begin{array}{c} \pm 007\\ .002\\ \pm 002\\ .748\\ \pm 008\\ .750\\ \pm 012\\ .760\\ \pm 012\\ .753\\ \pm 010\\ .753\\ \pm 010\\ .750\\ \pm 012\\ .753\\ \pm 010\\ .750\\ \pm 011\\ .723\\ \pm 016\\ .699\\ \pm 011\\ .723\\ \pm 011\\ .727\\ \pm 015\\ .619\\ \pm 015\\ .619\\ \pm 015\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ .619\\ $	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198 ±007 209 ±010 .175 ±009 .194 ±008 .196 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .195 ±009 .194 ±006 .196 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .198 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .196 .197 .196 .196 .196 .196 .197 .196 .196 .197 .197 .194 .196 .197 .194 .197 .194 .196 .197 .194 .197 .194 .197 .194 .197 .194 .197 .194 .194 .197 .194 .197 .194 .197 .194 .197 .194 .197 .194 .197 .194 .197 .194 .194 .197 .194 .197 .197 .197 .197 .197 .197 .197 .197 .197 .197 .197 .197 .197 .197 .197 .197 .197	### .552 ±004 .553 ±006 .553 ±005 .551 ±005 .551 ±005 .554 ±007 .515 ±009 .527 ±008 .526 ±007 .519 ±006 .529 ±006 .527 ±006 .527 ±006 .527 ±006 .527	$\begin{array}{c} \texttt{###} \\ \texttt{.620} \\ \pm 006 \\ \texttt{.617} \\ \pm 011 \\ \texttt{.601} \\ \pm 026 \\ \texttt{.614} \\ \pm 011 \\ \texttt{.615} \\ \pm 012 \\ \texttt{.600} \\ \pm 016 \\ \texttt{.651} \\ \pm 010 \\ \texttt{.625} \\ \pm 014 \\ \texttt{.622} \\ \pm 010 \\ \texttt{.626} \\ \pm 011 \\ \texttt{.626} \\ \pm 010 \\ \texttt{.615} \\ \pm 016 \\ \texttt{.626} \\ \pm 011 \end{array}$	**** 068 ±010 065 ±017 049 ±035 063 ±018 046 ±022 136 ±019 098 ±.022 098 ±.019 098 ±.022 095 ±.016 097 ±.015 068 ±.019 020 ±.015 063 ±.018 046 046 046 ±.022 038 ±.019 058 ±.010 058 ±.010 058 ±.015 063 ±.018 063 ±.018 063 ±.019 058 ±.019 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.017 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.017 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.016 058 ±.018 058 ±.018 058 058 ±.018 058 058 ±.018 058 058 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036\\ \pm 030\\ \pm 030$ \pm 030\\ \pm 030\\ \pm 030\\ \pm 030\\ \pm 030\\ \pm 030\\ \pm 030 \pm 030\\ \pm 030 \pm 030\\ \pm 030\\ \pm 030\\ \pm 030\\ \pm 030 \pm 030\\ \pm 030 \pm	$\pm 097$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 073$ $\pm 097$ $\pm 073$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 097$ $\pm 094$ $\pm 1983$ $\pm 096$ $\pm 094$ $\pm 1112$ 22133 $\pm 107$ 2.106 $\pm 074$ 2.184 $\pm 1076$ $\pm 074$ $\pm 074$	$\pm 098$ $\pm 050$ 3311 $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ $\pm 049$ $\pm 042$ 370 $\pm 042$ 505 $\pm 042$ $\pm 043$ $\pm 043$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm 043$ $\pm 014$ $\pm 014$	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±007 .070 ±018 .074 ±009 .074 ±009 .074 ±012 .094 ±013 .095 ±013 .095 ±013 .095 ±014 .095 .038 .007 .009 .009 .009 .009 .009 .009 .009 .009 .007 .009 .009 .007 .009 .007 .009 .007 .009 .007 .009 .007 .009 .007 .009 .007 .007 .009 .007 .009 .007 .009 .007 .009 .007 .009 .007 .009 .007 .007 .007 .007 .009 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.001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001	$\pm 000$ .000 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 048$ 2.257 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 044$ 2.438 $\pm 005$ 2.312 $\pm 044$ 2.433 $\pm 005$ 2.319 $\pm 047$ 2.423 $\pm 039$ 2.319 $\pm 047$ 2.433 $\pm 039$ 2.319 $\pm 045$ 2.319 $\pm 045$ 2.343 $\pm 046$	
2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.5 0.5	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±C.38 .068 ±000 .074 ±010 .073 ±006 .086 ±020 .057 .074 ±011 .077 ±009 .085 ±012 .091 ±011 .095 ±010 .138 ±002 .145	$\pm 002$ 000 $\pm 000$ 186 $\pm 013$ 194 $\pm 018$ 2504 $\pm 019$ 214 $\pm 020$ 243 $\pm 019$ 214 $\pm 020$ 2463 $\pm 019$ 214 $\pm 025$ 375 $\pm 020$ 363 $\pm 018$ 388 $\pm 018$ 388 $\pm 014$ -794	$\begin{array}{c} \pm 007\\ .002\\ \pm 002\\ .748\\ \pm 008\\ .750\\ \pm 012\\ .760\\ \pm 012\\ .753\\ \pm 010\\ .753\\ \pm 010\\ .750\\ \pm 012\\ .753\\ \pm 010\\ .750\\ \pm 018\\ .721\\ \pm 016\\ .690\\ \pm 018\\ .721\\ \pm 016\\ .690\\ \pm 018\\ .723\\ \pm 011\\ .723\\ \pm 011\\ .723\\ \pm 011\\ .727\\ \pm 011\\ .727\\ \pm 015\\ .672\end{array}$	### .196 ±004 .198 ±006 207 ±015 .199 ±005 .198 ±007 209 ±010 .198 ±007 209 ±010 .198 ±007 .198 ±007 .198 ±007 .198 ±005 .198 ±007 .198 ±005 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .197 .194 ±006 .197 .194 ±006 .197 .194 ±006 .197 .194 ±006 .197 .194	### .552 ±004 .553 ±006 .553 ±005 .551 ±006 .554 ±007 .515 ±009 .527 ±008 .526 ±007 .515 ±006 .529 ±006 .527 ±008 .527 ±008 .527 ±008 .527	$\begin{array}{c} \texttt{###}\\ \texttt{.620}\\ \pm 006\\ \texttt{.617}\\ \pm 011\\ \texttt{.601}\\ \pm 016\\ \texttt{.614}\\ \pm 011\\ \texttt{.615}\\ \pm 012\\ \texttt{.600}\\ \pm 016\\ \texttt{.651}\\ \texttt{.610}\\ \texttt{.625}\\ \pm 014\\ \texttt{.622}\\ \pm 010\\ \texttt{.645}\\ \pm 011\\ \texttt{.626}\\ \pm 010\\ \texttt{.615}\\ \pm 016\\ \texttt{.615}\\ \pm 016\\ \texttt{.627}\\ \texttt{.615}\\ \texttt{.615}\\ \texttt{.615}\\ \texttt{.615}\\ \texttt{.615}\\ \texttt{.616}\\ \texttt{.626}\\ \texttt{.626}\\ \texttt{.615}\\ \texttt{.611}\\ \texttt{.579}\\ \texttt{.679}\\ \texttt{.615}\\ \texttt{.616}\\ \texttt{.626}\\ \texttt{.627}\\ \texttt{.615}\\ \texttt{.615}\\ \texttt{.616}\\ \texttt{.626}\\ \texttt{.627}\\ \texttt{.615}\\ \texttt{.611}\\ \texttt{.627}\\ \texttt{.615}\\ \texttt{.627}\\ \texttt{.615}\\ \texttt{.627}\\ \texttt{.615}\\ \texttt{.627}\\ \texttt{.615}\\ \texttt{.626}\\ .$	**** 068 ±010 065 ±017 049 ±035 063 ±018 046 ±015 063 ±018 046 ±022 136 ±.019 098 ±.022 095 ±.016 025 ±.016 025 ±.016 025 ±.016 025 ±.016 025 ±.016 025 ±.016 025 ±.016 025 ±.016 025 ±.016 025 ±.017 063 ±.022 038 ±.022 038 ±.023 068 ±.023 068 ±.023 068 ±.023 068 ±.015 058 ±.016 026 026 026 026 026 026 037 063 046 026 038 ±.022 036 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 026 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1.24\\ \pm 042\\ 1.997\\ \pm 073\\ 1.969\\ \pm 091\\ 1.874\\ \pm 1983\\ \pm 096\\ 1.984\\ \pm 096\\ 1.994\\ \pm 094\\ 1.923\\ \pm 111\\ 2.213\\ \pm 111\\ 2.213\\ \pm 111\\ 2.213\\ \pm 111\\ \pm 097\\ 2.096\\ \pm 098\\ 2.144\\ \pm 107\\ 2.106\\ \pm 079\\ 2.184\\ \pm 106\\ \pm 074\\ 2.135\\ \pm 079\\ 2.184\\ \pm 106\\ 2.194\\ \end{array}$	$\pm 098$ $\pm 050$ 3311 $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ 396 $\pm 043$ 396 $\pm 043$ 396 $\pm 049$ $\pm 050$ 369 $\pm 050$ 369 $\pm 050$ 3733 $\pm 071$ 488 $\pm 037$ 488 $\pm 043$ $\pm 053$ 449 $\pm 043$ 449 $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 053$ 449 $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 053$ 449 $\pm 043$ $\pm 014$ $\pm 053$ $\pm 014$ $\pm 053$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 043$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm $	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .078 ±007 ±008 ±007 ±008 ±007 ±008 ±007 ±008 ±007 ±008 ±007 .070 ±008	$\pm 000$ .000 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 040$ 2.315 $\pm 048$ 2.257 $\pm 044$ 2.438 $\pm .065$ 2.312 $\pm .057$ 2.281 $\pm .057$ 2.281 $\pm .039$ 2.319 $\pm .039$ 2.319 $\pm .039$ 2.319 $\pm .039$ 2.319 $\pm .039$ 2.319 $\pm .039$ 2.319 $\pm .039$ 2.319 $\pm .039$ 2.319 $\pm .046$ 2.319 $\pm .046$ 2.312 $\pm .046$ 2.319 $\pm .046$ 2.312 $\pm .046$ 2.319 $\pm .046$ 2.319 $\pm .046$ 2.319 $\pm .046$ 2.319 $\pm .046$ 2.319	
2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.5	0         0.1           0         0.01           0         0.05           0         0.1           0         0.01           0         0.05           0         0.01           0         0.05           0         0.1           0         0.01           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		### .033 ±004 .040 ±C.38 .068 ±006 .074 ±010 .073 ±006 .086 ±020 .055 .074 ±011 .077 ±009 .085 ±010 .085 ±010 .095 ±010 .145 ±006	$\pm 002$ 000 $\pm 000$ 186 $\pm 013$ 194 $\pm 018$ 250 $\pm 044$ 203 $\pm 019$ 214 $\pm 009$ 214 $\pm 009$ 214 $\pm 003$ 358 $\pm 015$ 375 $\pm 025$ 370 $\pm 025$ 370 $\pm 028$ $\pm 025$ 370 $\pm 028$ $\pm 025$ 370 $\pm 028$ $\pm 025$ 370 $\pm 028$ $\pm 025$ 370 $\pm 028$ $\pm 025$ $\pm 025$ $\pm 028$ $\pm 028$ $\pm 028$ $\pm 025$ $\pm 028$ $\pm 038$ $\pm 038$ $\pm 038$ $\pm 038$ $\pm 051$ $\pm 051$	$\begin{array}{c} \pm 007\\ 0.002\\ \pm 002\\ .748\\ \pm 0.08\\ .750\\ \pm 0.025\\ .753\\ \pm 0.10\\ .750\\ \pm 0.025\\ .753\\ \pm 0.10\\ .750\\ \pm 0.025\\ .753\\ .753\\ \pm 0.025\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .753\\ .7$	$\begin{array}{c} \mbox{.196} \\ \pm 004 \\ 198 \\ \pm 004 \\ 207 \\ \pm 015 \\ 199 \\ \pm 005 \\ 199 \\ \pm 005 \\ 199 \\ \pm 001 \\ 175 \\ \pm 009 \\ 190 \\ \pm 006 \\ 190 \\ \pm 006 \\ 190 \\ \pm 006 \\ 199 \\ \pm 010 \\ 193 \\ \pm 006 \\ 199 \\ \pm 010 \\ 193 \\ \pm 023 \\ \pm 026 \\ \end{array}$	*** .352 ±004 .553 ±000 .553 ±005 .551 ±006 .554 ±007 .515 ±009 .527 ±008 .526 ±007 .519 ±006 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 .528 .528 .528 .528 .528 .553 .553 .553 .553 .553 .553 .553 .55	$\begin{array}{c} \mbox{###} \\ .620 \\ \pm 006 \\ .617 \\ \pm 011 \\ .601 \\ .601 \\ \pm 026 \\ .614 \\ \pm 011 \\ .615 \\ \pm 012 \\ .600 \\ \pm 016 \\ .651 \\ \pm 010 \\ .625 \\ \pm 010 \\ .626 \\ \pm 011 \\ .626 \\ \pm 010 \\ .626 \\ \pm 000 \\ \pm 0$	### 068 ±.010 065 ±.017 049 ±.035 063 ±.015 063 ±.018 046 ±.022 136 ±.019 098 ±.022 095 ±.016 125 ±.016 097 ±.015 068 ±.023 068 ±.023 068 ±.023 068 ±.023 068 ±.023 068 ±.023 068 ±.023 068 ±.023 068 ±.025 068 ±.025 068 ±.025 068 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2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.5 0.5	0       0.1         0       0.01         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.05         0       0.1         0       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1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.012\\ 1.$	$\begin{array}{c} \mbox{.196} \\ \pm 004 \\ 198 \\ \pm 004 \\ 198 \\ \pm 007 \\ \pm 015 \\ 199 \\ \pm 005 \\ 199 \\ \pm 005 \\ 199 \\ \pm 007 \\ 1006 \\ 1175 \\ \pm 009 \\ 1006 \\ 1194 \\ \pm 006 \\ 1193 \\ \pm 007 \\ 1193 \\ \pm 010 \\ 1193 \\ \pm 026 \\ 241 \\ \end{array}$	$\begin{array}{c} 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\mbox{###} \\ .620 \\ \pm .006 \\ .617 \\ \pm .011 \\ .601 \\ \pm .026 \\ .614 \\ \pm .011 \\ .615 \\ \pm .012 \\ .600 \\ \pm .016 \\ .651 \\ \pm .010 \\ .625 \\ \pm .016 \\ .625 \\ \pm .011 \\ .626 \\ \pm .011 \\ .626 \\ \pm .016 \\ .626 \\ \pm .016 \\ .626 \\ \pm .016 \\ .626 \\ \pm .011 \\ .579 \\ .537 \\ \end{array}$	**** 068 ±010 065 ±017 049 ±035 060 ±015 063 ±018 046 ±022 136 ±019 098 ±.022 136 ±.019 098 ±.022 136 ±.019 098 ±.025 ±.016 125 ±.016 095 ±.016 095 ±.016 095 ±.016 095 ±.016 095 ±.016 095 ±.016 095 ±.016 098 ±.022 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 088 ±.023 078	$\begin{array}{c} 01\\ \pm 103\\ 5.409\\ \hline 103\\ 5.409\\ \hline 103\\ \pm 015\\ 2266\\ \pm 011\\ 2276\\ \pm 015\\ 268\\ \pm 015\\ 273\\ \pm 015\\ 275\\ \pm 020\\ 268\\ \pm 022\\ 291\\ \pm 015\\ 294\\ \pm 025\\ 293\\ \pm 019\\ 297\\ \pm 025\\ 336\\ \pm 030\\ 303\\ \hline 303\\ \hline \end{array}$	$\begin{array}{r} 1.24\\ \pm .097\\ \hline 1.997\\ \pm .042\\ \pm .042\\ 1.997\\ \pm .073\\ \hline 1.969\\ \pm .091\\ \hline 1.973\\ \hline 1.969\\ \pm .091\\ \hline 1.974\\ \pm .096\\ \hline 1.983\\ \pm .096\\ \hline 1.983\\ \pm .096\\ \hline 1.983\\ \pm .096\\ \hline 1.983\\ \pm .096\\ \hline 1.994\\ \pm .096\\ \hline 1.994\\ \pm .096\\ \hline 2.133\\ \pm .079\\ \hline 2.106\\ \pm .079\\ \hline 2.106\\ \pm .079\\ \hline 2.106\\ \pm .079\\ \hline 2.106\\ \pm .079\\ \hline 2.184\\ \pm .079\\ \hline 2.184\\ \pm .051\\ \hline 2.018\\ \hline \end{array}$	$\pm 098$ $\pm 050$ 3311 $\pm 050$ 358 $\pm 043$ 3911 $\pm 049$ 3962 $\pm 042$ 370 $\pm 042$ 370 $\pm 050$ $\pm 042$ 370 $\pm 042$ 370 $\pm 042$ 370 $\pm 050$ $\pm 042$ 370 $\pm 042$ 370 $\pm 042$ 370 $\pm 042$ $\pm 050$ $\pm 042$ $\pm 050$ $\pm 042$ $\pm 050$ $\pm 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±.051 2.343 ±.055 2.343 ±.051 2.343 ±.055 2.343 ±.051 2.343 ±.055 2.343 ±.055 2.343 ±.055 2.343 ±.051 2.343 ±.055 2.343 ±.055 2.343 ±.051 2.343 ±.056 2.343 ±.055 2.343 ±.055 2.343 ±.055 2.343 ±.055 2.343 ±.055 2.343 ±.055 2.343 ±.055 2.343 ±.046 2.129 ±.149 ##	
2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.5 0.5	0         0.1           0         0.01           0         0.05           0         0.1           0         0.01           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05           0         0.1           0         0.05           0         0.1   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\textbf{###}\\ $	$\begin{array}{c} \texttt{###} \\ \texttt{.620} \\ \pm 006 \\ \texttt{.617} \\ \pm 011 \\ \texttt{.601} \\ \pm 026 \\ \texttt{.614} \\ \pm 011 \\ \texttt{.615} \\ \pm 012 \\ \texttt{.600} \\ \pm 016 \\ \texttt{.651} \\ \pm 010 \\ \texttt{.625} \\ \pm 014 \\ \texttt{.622} \\ \pm 014 \\ \texttt{.622} \\ \pm 014 \\ \texttt{.626} \\ \pm 011 \\ \texttt{.626} \\ \texttt{.615} \\ \pm 010 \\ \texttt{.615} \\ \pm 010 \\ \texttt{.626} \\ \texttt{.011} \\ \texttt{.579} \\ \texttt{.033} \\ \texttt{.537} \\ \texttt{.033} \\ \texttt{.015} \end{array}$	**** 068 ±.010 065 ±.017 049 ±.035 060 ±.015 063 ±.018 046 ±.015 063 ±.018 046 ±.022 098 ±.019 098 ±.019 098 ±.015 ±.016 097 ±.015 ±.016 097 ±.015 ±.016 088 ±.022 098 ±.015 ±.016 097 ±.015 ±.016 068 ±.022 098 ±.015 ±.016 097 ±.015 ±.016 088 ±.022 098 ±.022 098 ±.015 ±.016 097 ±.015 088 ±.020 088 ±.020 088 ±.020 097 ±.015 088 ±.020 097 ±.015 088 ±.020 097 ±.015 088 ±.020 097 ±.015 088 ±.020 097 ±.015 088 ±.020 097 ±.015 078 ±.020 078 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0.018\\ \pm 120\\ 2.200\\ \pm 118\\ \end{array}$	$\pm 098$ $\pm 098$ $\pm 050$ 331 $\pm 043$ 391 $\pm 043$ 391 $\pm 043$ 391 $\pm 043$ $\pm 043$ $\pm 042$ 370 $\pm 042$ 370 $\pm 050$ 369 $\pm 071$ 486 $\pm 037$ 483 $\pm 043$ $\pm 043$ $\pm 043$ $\pm 044$ $\pm 053$ 478 $\pm 043$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm 045$ $\pm 043$ $\pm 044$ $\pm 045$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm 045$ $\pm 044$ $\pm 043$ $\pm 044$ $\pm 045$ $\pm 0$	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 .058 ±007 .070 ±008 ±007 .070 ±008 ±007 ±008 ±012 .094 ±013 .095 ±014 139 ±001 .154 ±001 .154 ±001 .154 ±011	±000 .000 2.343 ±038 2.318 ±039 2.284 ±061 2.309 ±040 2.315 ±048 2.257 ±044 2.438 ±065 2.312 ±047 2.423 ±.047 2.423 ±.047 2.423 ±.047 2.423 ±.047 2.319 ±.047 2.423 ±.047 2.423 ±.047 2.423 ±.047 2.319 ±.047 2.319 ±.047 2.328 ±.047 2.328 ±.047 2.328 ±.047 2.328 ±.047 2.328 ±.047 2.328 ±.047 2.339 ±.051 2.328 ±.047 2.339 ±.051 2.328 ±.047 2.339 ±.051 2.328 ±.047 2.339 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2       0.1         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0.1         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0         2       0.1         2       0.1         2       0.1         2       0.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0       0.1         0       0.01         0       0.05         0       0.01         0       0.01         0       0.05         0       0.01         0       0.05         0       0.01         0       0.05         0       0.01         0       0.05         0       0.01         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.05         0       0.1         0       0.01         0       0.01         0       0.01         0       0.05	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### .033 ±004 .040 ±C.38 .068 ±030 .074 ±010 .073 ±006 .086 ±020 .074 ±011 .077 ±005 ±012 .074 ±011 .077 ±005 ±012 .074 ±011 .075 ±012 .074 ±011 .075 ±012 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±015 .074 ±011 .075 ±011 .075 ±011 .075 ±011 .075 ±011 .075 ±011 .075 ±011 .075 ±011 .075 ±011 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576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 576 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027 ±027	$\begin{array}{c} \pm 007\\ .002\\ .748\\ \pm 008\\ .750\\ .760\\ .750\\ .750\\ .753\\ \pm 010\\ .750\\ .753\\ \pm 010\\ .750\\ .753\\ \pm 012\\ .762\\ \pm 012\\ .762\\ \pm 016\\ .690\\ \pm 018\\ .721\\ \pm 016\\ .690\\ \pm 018\\ .721\\ \pm 016\\ .690\\ \pm 011\\ .723\\ \pm 011\\ .723\\ \pm 011\\ .723\\ \pm 015\\ .672\\ \pm 050\\ .672\\ \pm 050\\ .672\\ \pm 050\\ .700\\ \pm 015\\ .672\\ \pm 015\\ .672\\ \pm 022\\ .702\\ \end{array}$	### .196 ±004 .198 ±006 2077 ±015 .199 ±005 .199 ±005 .198 ±007 209 ±010 .175 ±009 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .194 ±006 .198 ±007 .199 ±010 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±006 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±006 .198 ±006 .198 ±007 .198 ±006 .198 ±006 .198 ±007 .198 ±007 .198 ±007 .198 ±007 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .198 ±006 .199 ±010 .199 ±010 .199 ±010 .199 ±010 .199 ±010 .199 ±010 .199 ±010 .199 ±010 .199 ±010 .199 ±010 .193 ±026 .241 ±012 .236	### .552 ±004 .553 ±006 .553 ±005 .551 ±005 .551 ±005 .551 ±007 .515 ±009 .527 ±008 .526 ±007 .519 ±006 .529 ±006 .529 ±006 .527 ±008 .527 ±008 .527 ±008 .527 ±006 .529 ±006 .529 ±006 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .527 ±008 .538 ±012 .538 ±008 .538 ±008 .538 ±008 .538 ±008 .538 ±008 ±008 ±008 ±008 ±008 ±008 ±008 ±0	$\begin{array}{c} \texttt{###} \\ \texttt{.620} \\ \pm 006 \\ \texttt{.617} \\ \pm 011 \\ \texttt{.601} \\ \pm 026 \\ \texttt{.614} \\ \pm 011 \\ \texttt{.615} \\ \pm 012 \\ \texttt{.600} \\ \pm 016 \\ \texttt{.651} \\ \pm 010 \\ \texttt{.625} \\ \pm 014 \\ \texttt{.622} \\ \pm 010 \\ \texttt{.625} \\ \texttt{.614} \\ \texttt{.621} \\ \texttt{.626} \\ \texttt{.010} \\ \texttt{.626} \\ \texttt{.010} \\ \texttt{.626} \\ \texttt{.011} \\ \texttt{.579} \\ \texttt{.033} \\ \texttt{.623} \\ \texttt{.623} \\ \texttt{.623} \\ \texttt{.615} \\ \texttt{.015} \\ \texttt{.561} \\ \end{array}$	**** 068 ±010 065 ±017 049 ±036 ±015 063 ±018 046 ±022 136 ±019 098 ±.022 136 ±019 098 ±.022 136 ±.019 098 ±.022 195 ±.016 125 ±.016 097 ±.015 ±.016 097 ±.015 ±.016 097 ±.015 ±.016 097 ±.015 ±.016 097 ±.015 088 ±.020 ±.018 020 ±.018 020 ±.018 020 ±.018 020 ±.018 020 ±.018 020 ±.018 020 ±.018 026 ±.016 027 ±.016 028 ±.022 098 ±.020 ±.018 020 ±.018 027 098	01 $\pm 103$ 5.409 ### 2666 $\pm 011$ 2766 $\pm 015$ 2683 $\pm 015$ 2755 $\pm 020$ 2683 $\pm 015$ 2775 $\pm 015$ 2775 $\pm 015$ 2775 $\pm 015$ 2775 $\pm 015$ 2775 $\pm 015$ 2775 $\pm 015$ 2775 $\pm 020$ 2682 $\pm 0293$ $\pm 019$ 2977 $\pm 0266$ $\pm 0273$ $\pm 0293$ $\pm 019$ 2977 $\pm 0266$ $\pm 0273$ 2933 $\pm 019$ 2937 $\pm 019$ 2937 $\pm 019$ 2937 $\pm 019$ 2937 $\pm 019$ 2937 $\pm 0326$ $\pm 0336$ $\pm 0333$ $\pm 03333$ $\pm 03333$ $\pm 03333$ $\pm 0334333$ $\pm 03343333$ $\pm 03343333245$ $\pm 03343333245$ $\pm 03343333245$ $\pm 03343333245$ $\pm 03343333245$ $\pm 03343333245$ $\pm 03343333245$ $\pm 03343333245$ $\pm 03343333245$ $\pm 033433333245$ $\pm 03343333245$ $\pm 0334333345$ $\pm 03343333245$ $\pm 0334333345$ $\pm 0334333345$ $\pm 033433355$ $\pm 033433555555555555555555555555555555555$	$\begin{array}{c} 1.24\\ \pm 0.97\\ \hline 1.24\\ \pm 0.97\\ \hline 1.997\\ \hline 1.969\\ \pm 0.91\\ \hline 1.969\\ \pm 0.91\\ \hline 1.969\\ \pm 0.91\\ \hline 1.983\\ \pm 0.96\\ \hline 1.994\\ \pm 0.94\\ \hline 1.983\\ \pm 0.96\\ \hline 1.994\\ \pm 0.94\\ \hline 1.983\\ \pm 0.96\\ \hline 1.994\\ \pm 0.94\\ \hline 2.133\\ \pm 0.96\\ \hline 2.144\\ \pm 0.97\\ \hline 2.106\\ \pm 0.74\\ \hline 2.108\\ \pm 1.20\\ \hline 2.108\\ \pm 1.20\\ \hline 2.108\\ \pm 1.20\\ \hline 2.108\\ \pm 1.20\\ \hline 2.118\\ \hline 2.115\\ \hline 2.112\\ \hline 2.$	$\pm 098$ $\pm 098$ $\pm 050$ 331 $\pm 050$ 358 $\pm 043$ 391 $\pm 049$ 391 $\pm 049$ $\pm 042$ 370 $\pm 042$ 500 $\pm 043$ $\pm 043$ 4494 $\pm 043$ 4494 $\pm 043$ $\pm 014$ 8633 $\pm 014$ 8633 $\pm 014$ 8633 $\pm 022$ $\pm 022$ 832	### .033 ±005 .038 ±007 .052 ±012 .074 ±014 .071 ±009 .082 ±017 ±018 ±007 .070 ±008 .070 ±008 .074 ±007 .070 ±008 .074 ±017 .058 ±007 .070 ±012 .094 ±012 .094 ±013 .095 ±014 .095 ±014 .071 .076 .076 .076 .076 .076 .076 .076 .077 .077 .077 .076 .077 .077 .077 .077 .077 .077 .078 .077 .078 .077 .077 .078 .077 .070 .070 .076 .076 .076 .076 .076 .077 .077 .070 .070 .070 .070 .070 .095 .074 .095 .074 .074 .071 .076 .070 .070 .070 .095 .074 .095 .012 .094 .011 .095 .012 .094 .012 .095 .014 .074 .074 .074 .074 .076 .076 .076 .076 .076 .076 .076 .076 .076 .076 .076 .074 .074 .074 .074 .074 .074 .095 .074 .074 .074 .074 .074 .074 .074 .075 .074 .074 .074 .074 .075 .0174 .013 .075 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0174 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .0114 .01144 .0114 .014	$\pm 000$ .000 2.343 $\pm 000$ 2.343 $\pm 038$ 2.318 $\pm 039$ 2.284 $\pm 061$ 2.309 $\pm 040$ 2.315 $\pm 048$ 2.315 $\pm 048$ 2.327 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 044$ 2.438 $\pm 065$ 2.312 $\pm 044$ 2.438 $\pm 047$ 2.423 $\pm 039$ 2.319 $\pm 047$ 2.423 $\pm 047$ 2.433 $\pm 046$ 2.319 $\pm 071$ 2.343 $\pm 046$ 2.317 $\pm 046$ 2.317 $\pm 046$ 2.327 $\pm 046$ 2.327 $\pm 046$ 2.327 $\pm 046$ 2.329 $\pm 047$ 2.343 $\pm 046$ 2.329 $\pm 046$ 2.329 $\pm 046$ 2.329 $\pm 046$ 2.329 $\pm 046$ 2.329 $\pm 046$ 2.329 $\pm 046$ 2.337 $\pm 059$ 2.041	

Appen	dix B
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2 0.1	1	0	0	0.5	0	0.1	0.5	0	Yes	20	##	##	##	**	##	##	##	.295 ±012	2.057 ±.125	.795 ±.045	##	**
2 0	0	0	0.5	0	0.1	0.01	0.5	0	Yes	0	.280	.321	1.129	.758	.372	.311	.060	.258 + 084	.981	.320	.275	.972 + 034
2 (	0	0	0.5	0	C.1	0.05	0.5	U	Yes	0	.336	.306	1.251	.888	.363	.531	167	.357	.917	.297	.334	.916
2 (	0	0	0.5	0	0.1	0.1	0.5	0	Yes	0	.449	.315	1.313	.981	.332	.676	345	.550	.896	.335	.423	.862
2 0.	1	0	0.5	0	0.1	0.01	0.5	0	Yes	0	±123	£050 .305	1.138	±.062	.375	±.082 .327	£102	.267	£.046	±.069	£.142 .250	.962
2 0.	1	0	0.5	0	0.1	0.05	0.5	c	Yes	0	±.049 .357	±031 .312	±049 1.254	±.056 .901	±.015 .353	±.080 .535	±.088	±078 .339	±.042 .916	±.040 .300	±.067 .365	±.034 .908
2 0.	1	0	0.5	0	0.1	0.1	0.5	0	Yes	0	±.070	±.043	±039 1.318	±.058	±.029 .314	±.070	±.090	±.061 .415	±.035 .912	±0.37	±.097	±.041 .857
2	0	0	0.5	0	0.2	0.01	0.5	0	Yes		±142	±.043	±044	±.066	±.063	±.083	±118	±.166	±031	±.048	±.165	±.055
	<u>.</u>		0.5	<u>-</u>	- 0.2	0.05	0.5		 V~		±.050	±056	±.051	±.065	±.028	±.088	±101	±065	±.045	±.054	±.061	±.054
	<u> </u>		0.5		0.2	0.05	0.5				±076	±064	$\pm 041$	±.045	±.025	±.068	±.074	±061	±037	±057	±.086	±.055
		0	0.5		0.2	0.1	0.5		Yes		.427 ±.161	.380 ±.144	1.250 ±.061	.883 ±.040	.367 ±.056	.522 ±066	±.103	.352 ±.067	.963 ±.061	±083	.450 ±197	.958 ±063
2 0.	1	0	0.5	0	0.2	0.01	0.5	0	Yes	C	.290 ±056	.343 ±.042	1.153 ±054	.764 ±.058	.390 ±.011	.317 ±.092	.073 ±095	.267 ±.053	1.016 ±.052	.350 ±056	.285 ±.074	.979 ±030
2 0.	1	0	0.5	0	0.2	0.05	0.5	0	Yes	0	.344 ±.079	.326 ±.077	1.219 ±040	.833 ±.041	.386 ±.022	.434 ±.065	048 ±.066	.298 ±.057	.986 ±.035	.320 ±.052	.348 ±103	.945 ±.055
2 0.1	1	0	0.5	0	0.2	0.1	0.5	Ú	Yes	0	.361 ±065	.334 ±048	1.248 ±.039	.861 ±.038	.387 ±016	.491 ±059	104 ±.058	.359 ±077	.957 ±040	.328 ±.066	.353 ±.087	.953 ±.037
5 (	0	0	0.5	0	0.2	0.01	0.5	0	Yes	0	.217	.370	1.107	.711	.396	.274	.122	.210	1.079	.407	.205 + 054	1.013
5 (	0	0	0.5	0	0.2	0.05	0.5	0	Yes	0	223	.327	1.182	.783	.399	.399	.001	.250	1.023	.331	.220	.958
5	0	0	0.5	0	6.2	0.1	0.5	0	Yes	0	.273	.345	1.228	.830	.35 <b>8</b>	.492	094	.276	1.001	.328	.276	.961
5 0.	1	0	0.5	0	0.2	0.01	0.5	0	Yes	0	±.049	±039	±022 1.125	±033	±.025 .394	±047	±057	±.053	±031	£.045 .352	±.057	.992
5 0.	1	0	0.5	0	0.2	0.05	0.5	0	Yes	0	±032	±.043 .310	±.034 1.188	±.034 .800	±013 .388	±.058 .410	±.060	±049 .232	±046 1.010	±.037	±.035 .231	±034 .948
5 0.	1	0	0.5	0	0.2	0.1	0.5	0	Yes	0	±.032 .292	±031 .348	±034 1.227	±.041 .843	±017 .384	±.058 .496	±.066 112	±.040 .295	±.030 1.004	±.033 .350	±.033 .298	±.033 .951
2	0	1	0.5		0.1	0.01	0.5	0	Yes	0	±.068	±.062	±.030 1.259	±.026	±022 .345	±.041 .370	±.043	±.050	±.039	±.062	±.081	±.040 .871
2	0	-1	0.5	0	0.1	0.05	0.5	0	Yes	0	±.119 952	±.040	±.074	±.090	±.027	±.070	±.085	±.088	±.049	±.035	±138	±.054
	<u> </u>	-	0.5		0.1	0.00	0.5				±.427	±092	±149	±.219	±109	±.214	±.289	±.412	±.045	±.104	±447	±.048
	0	1	0.5	U	0.1	0.1	0.5	U	10	1	±927	±.058	±267	±.425	±.177	±.276	±.444	±260	±.043	±.069	±1.07	±.064
2 0.	1	1	0.5	0	0.1	0.01	0.5	0	Yes	0	.577	.301	1.254	.897	.357	.365	008	.560	.961	.323	.586	.884
2 0.	1	1	0.5	0	0.1	0.05	0.5	0	Yes	0	±.100 .817	±.027	1.443	±.089	±.021	£.091 .600	±.095	±.094 .762	±.044	±.036	± 134 .779	±.042 .800
2 0.1	1	1	0.5	0	0.1	0.1	0.5	0	Yes	0	±.213 1.445	±050 .363	±119 1.640	±.146 1.447	±.043 .194	±.117 .859	±.143 665	±218 .965	±.050 .882	±.056 .328	±.226 1.582	±.037 .746
2	0	1	0.5	0	0.1	0.01	0.2	0	Yes	0	±489 .311	±.099	±.173 1.252	±.255 .890	±.108 .362	±.183 .377	±.278	±.230 .363	±.056	±.058 .315	±.613 .322	±.034 .893
2	0	1	0.5	0	0.1	0.05	0.2	0	Yes	0	±.082	±042	±.099	±.106	±046	±.098	±.114	±.073	±.051	±.054	±104	±.054 .845
2	<u></u>	1	0.5		01	01	0.2		Vec		±.230	±058	±.077	±.102	±.041	±.125	±.155	±274	±.033	±.067	±.190	±.039
	1	•	0.5		0.1	0.1	0.2		Var		±255	±.051	±.208	±.227	±.036	±.168	±.187	±214	±.056	±077	±.297	±.029
2 0.			0.5		0.1	0.01	0.2	0	165		±.060	±.022	±.060	.040 ±.071	±.023	±.062	±.072	±.098	±046	±.042	.200 ±.057	±.050
2 0.	1	1	0.5	0	0.1	0.05	0.2	0	Yes	0	.485 ±212	.289 ±.058	1.431 ±.104	1.095 ±127	.336 ±034	.619 <u>±.114</u>	283 ±.138	.501 ±101	.923 ±044	.308 ±.062	.509 ±.227	.837 <u>±.044</u>
2 0.1	1	1	0.5	0	0.1	0.1	0.2	0	Yes	0	.572 ±.201	.290 ±.051	1.568 ±.146	1.250 ±.172	.318 ±.034	.744 ±.132	426 ±.158	.611 ±.129	.892 ±.045	.302 ±.062	.626 ±.216	.808 ±.047
2 (	0	1	0.5	0	0.2	0.01	0.2	0	Yes	0	.323 ±.080	.341 ±.046	1.226 ±.110	.839 ±.116	.387 ±.029	.325 ±.105	.062 ±111	.313 ±.095	1.062 ±.045	.382 ±.040	.318 ±.083	.919 ±.063
2 0	0	1	0.5	0	0.2	0.05	0.2	0	Yes	0	.456 ±.157	.326 ±.053	1.390 ±.102	1.028 ±.127	.362 ±.032	.485 ±.090	123 ±.115	.395 ±.077	.994 ±033	.312 ±.047	.462 ±.189	.858 ±.040
2 (	0	1	0.5	0	0.2	0.1	0.2	0	Yes	0	.601	.351	1.465	1.118 ± 117	.348 ± 050	.576	228 ± 132	.459 ± 075	.977 ±043	.340 ±.055	.613 ± 264	.849 ±.047
2 0.1	1	1	0.5	0	0.2	0.01	0.2	0	Yes	0	.326	.309	1.224	.838	.386	.338	.047	.304	1.062	.361	.304	.907
2 0.1	1	1	0.5	0	0.2	0.05	0.2	0	Yes	0	.423	.315	1.369	1.007	.363	.464	102	.394	.989	.319	.428	.867
2 0.	1	1	0.5	0	0.2	0.1	0.2	0	Yes	0	±115 .511	±.043 .340	±.099	1.107	±.022 .351	±.076	±.086	±.095 .467	±.038	±.051	± 144 .517	.847
L	_										±.190	±.092	±.067	±.072	±.031	±.072	±.088	±.080	±.031	±.046	±.258	±.044

Note: In all simulations,  $\sigma_x$  and a₂ are zero;  $\beta$  is one; s_c is 3; d= $\sigma_p$ .

#### Analysis of variance of gross profits

Source	Sum-of-	D.f.	Mean square	F-ratio	Р
	squares				
С	0.074	1	0.074	5.957	0.031
Р	0.021	1	0.021	1.700	0.217
C*P	0.005	1	0.005	0.373	0.553
ERROR	0.149	12	0.012		

Two-way analysis of variance of normalized average profits (equation (11)) before inventory costs in each market, excluding the first 10 time periods, using price condition (P) and complexity (C) as factors, excluding the fixed-price conditions, where profits before inventory costs do not vary in the long run under fixed prices. N = 16;  $R^2 = .401$ .

Source	Sum-of-	D.f.	Mean square	F-ratio	Р
	squares				
С	81.308	1	81.308	30.144	0.000
Р	13.070	1	13.070	4.846	0.048
C*P	33.654	1	33.654	12.477	0.004
ERROR	32.368	12	2.697		

#### Analysis of variance of inventory costs

Two-way analysis of variance of the logarithm of the average inventory costs in each market, excluding the first 10 time periods, using price condition (P) and complexity (C) as factors, excluding the clearing-price conditions, where inventories are identically zero. N = 16;  $R^2 = .798$ .



#### Simulated behavior of rational agents

Typical realizations of simulations of market average output and price (in a market with 4 firms) under the assumption that firms correctly estimate the structural parameters in the system and act to maximize their expected profits, given their expectation of non-cooperative rational-expectations equilibrium, with small i.i.d. random errors (standard deviation 5%) introduced in the decision rules for both price and output.

# Appendix C: Questionnaires and instructions

# Pre-game questionnaire

- 1. Date _____
- 2. Firm _____ (name indicated on your computer)
- 3. Your age _____ (years)

4. What is your current educational status (check one)?

5. With what department at M.I.T. are you mostly affiliated (check one)?

Mar	agement (15), Behavioral and Policy Sciences
Mai	agement (15), Economics and Finance
Mai	agmenet (15), Management Science
Mar	agement (15), MBA/MOT/Sloan Fellow
Eco	nomics (14)
Poli	ticial Science (17)
Oth	er (please specify)

In the following, a "graduate course equivalent" is either one graduate-level course or two undergraduate courses.

6. What is your educational background in economics (don't count statistics or econometrics courses)?

Advanced (more than 3 graduate course equivalents)
Intermediate (2-3 graduate course equivalents)
Introductory (1/2 - 1 graduate course equivalent)
None

7. What is your educational background in relevant quantitative disciplines such as statistics, operations research, management science, engineering control theory (check one)?

Advanced (more than 3 graduate course equivalents)
 Intermediate (2-3 graduate course equivalents)
 Introductory (1/2 - 1 graduate course equivalent)
 None

8. What is your educational background in "system dynamics" (check one)?

_____ Several courses (e.g. 15.872/15.874, 15.873, individual study) _____ One course (e.g. 15.872/15.874) _____ None

9. Has anyone who has played this game before ever told you any datails about the game? (Answer yes or no) _____

10. Have you ever played any of the following simulation games (check any that apply)?

- _____ The market game during IAP, January 1990
- _____ The "People Express" Management Flight Simulator
- _____ The "Beer Distribution Game"
- _____ Bent Bakken's Real Estate Investment Game
- _____ Bent Bakken's Oil Tanker Game
- _____ Ernst Diehl's Control Game
- _____ The "Long Wave" Capital Investment Game.

# Game instructions, fixed-price, simple condition

#### Goal

As in life, the purpose of the game is for you to <u>maximize your profits</u>. For the experimenters, the purpose is to investigate how markets with different structures and price regimes behave.

Your dollar reward is based on your <u>cumulative net profits</u> in the game. Your cumulative profits are converted to real money using a <u>fixed exchange rate</u>. On average, you should earn <u>about \$30</u> in three hours of playing.

In addition, you will receive a <u>bonus for your forecasting</u> performance (see below). On average, the bonus will amount to a couple of dollars.

Period 10	Enter your decisions, then click OK						
l Start	Units in productionInventorySales?-110?StartFinish						
Unit producti Unit inventor	on cost: y/backlo	\$ g cost: \$	2.50 1.25				
Sum	nary l	Report	For Period 9		Tables Graphs		
Marketing			Financial				
Your price		3.20	Kevenue	2304.00			
AVG. MKT. price		5.20	LOST OF GOODS SOLD	1800.00	<u>Decisions:</u>		
riignest mkt. pr	ice	3.20	Gross protits	504.00			
Lowest mkt. pr	ce	3.20	Not profite	50.00			
Your coloc		720	End own profite	434.00	Prod. starts:		
Salac rai to mk	+ 370		End com. promis	3/13.00			
	Aug.		Production		Forecasts for period 10		
rorecasts	AVG. N	narket	Prog. Starts	650	LALAAAAAA LALAALIAA LA		
Vaur farmanst	Sales	Price	Units in prod.	650			
Actin	(30	7 20	Pagin invent	-40	Avg.mkt. sales:		
Frror	07U 60	3.20	Sales	-40			
Score	55.05	•••••	End invent.	-110	L OK J		

Figure 1

# Your firm and the market

Figure 1 shows the screen that you will be seeing in the game. (The numbers in the figure are for illustration only--the numbers in your game will be different.)

Your firm competes with other firms in the market. All firms are identical with respect to production cost, inventory cost, etc. Each firm sells only one product, which for experimental reasons has been kept abstract. The products of different firms are quite alike but not identical. You can think of the product as a tire, a softdrink, or a men's shirt.

#### Production, inventory, and backlog

Each period, you have only one decision to make, namely <u>how much to</u> <u>produce</u>.

If you sell <u>less</u> than the finished production, the rest piles up in your <u>inventory</u>. On the other hand, if you sell <u>more</u> than you have available, the excess sales accumulate in an order <u>backlog</u> (i.e. a negative inventory).

Theoretically, there is no limit on how much you produce, but you cannot cancel initiated production or destroy your inventory, i.e. you <u>cannot produce</u> <u>negative amounts</u>.

#### **Profits and costs**

Your <u>profits</u> each period is your <u>revenue</u> (sales x price) less your costs. Costs consist of production cost, incurred at the time of sale (called "<u>cost of goods</u> <u>sold</u>"), and <u>inventory/backlog costs</u>.

The <u>"cost of goods sold" is simply proportional to sales</u>, i.e. the unit production cost is constant.

Inventory/backlog costs are proportional to your inventory or backlog that you have at the beginning of each period. You might also say that your inventory/backlog cost is proportional to the absolute value of your inventory.

In the case where you have positive inventory, you can interpret the cost as a storage and financing charge. When you have a backlog (negative inventory), you can think of the cost as a rebate that you have to offer your customers to compensate for delayed delivery, or a penalty imposed on you for late delivery by a central planning ministry.

Your <u>gross profits</u> are your revenues less cost of goods sold. Your <u>net profits</u> are gross profits less inventory/backlog costs.

Note that both the unit production cost and the unit inventory/backlog cost are constant (and will not change at any time during the game).

# Price

In this version of the game, prices are <u>fixed</u> by government decree.

### Sales

Your sales are influenced by only <u>one factor</u> (in other versions of the market where prices are variable, sales would also be affected by price):

• <u>External factors</u> Demand for your product, as well as demand for the products of your competitors, can be influenced by exogenous factors which are <u>independent of anything you or your competitors do in the game</u>.

The pattern of these "factors" will be known only to the experimenter, but you can be sure that there will not be a consistent trend of growth and decline. Moreover, these "factors" will remain in a "reasonable" range.

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In addition to your production decision, we ask you to make a <u>forecast of the</u> <u>average sales per firm in the market</u> (i.e. <u>not</u> the total market sales, and <u>not</u> your own sales). We ask you to forecast both of these figures <u>for the current</u> <u>period</u>.

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# Practice rounds

In order to familiarize you with the game and the mechanics of using the machine, you will have a <u>practice session of 3 time periods</u>.

At the end of period 4, your <u>cumulative profits are then "reset"</u> so that they are equal to the profits you made during that period. Your <u>forecasting score is</u> <u>reset</u> in the same manner. However, your <u>inventory is not reset!!!</u>

#### Making your decisions

When you are ready to make your decisions, click the mouse on the text fields in the lower right-hand corner of your screen to bring the cursor into the appropriate field. (Hitting the <tab> or <enter> or <return> key does the same thing.) Type in your decision and, when you're finished, click on the "OK" button to execute them. You will then be asked to confirm each decision.

After all participants have entered their decisions, the computers calculate the results for that period and advance to the next period.

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#### **Graphs and Tables**

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# Game instructions, fixed-price, complex condition

# Goal

As in life, the purpose of the game is for you to <u>maximize your profits</u>. For the experimenters, the purpose is to investigate how markets with different structures and price regimes behave.

Your dollar reward is based on your <u>cumulative net profits</u> in the game. Your cumulative profits are converted to real money using a <u>fixed exchange rate</u>. On average, you should earn <u>about \$30</u> in three hours of playing.

In addition, you will receive a <u>bonus for your forecasting</u> performance (see below). On average, the bonus will amount to a couple of dollars.

Period 10	Enter your decisions, then click OK							
? Start	Jnits i 720	n pro 7	duction 30 700 Finish	Inventor -110	y Sales ?			
Unit product Unit inventor	Unit production cost : \$ 2.50 Unit inventory /backlog cost : \$ 1.25							
Sum	mary f	Report	For Period 9		Tables Graphs			
Marketing			Financial					
Your price		3.20	Revenue	2304.00				
Avg. mkt. price	•	3.20	Cost of goods sold	1800.00	Decisions:			
Highest mkt. pr	ice	3.20	Gross profits	504.00				
Lowest mkt. pr	ice	3.20	inventory costs	50.00				
Avg. mkt. sale	5	690	Net profits	454.00	Prod. starts:			
Your sales		720	End cum. profits	3715.00	L			
Sales rel. to m	ct. avg.	1.04	Production					
Forecasts	Avg. n	narket	Prod. starts	720	Forecasts for period 13			
	Sales	Price	Units in prod.	2800				
Your forecast	750		Finished prod.	650	Avamkt sales			
Act	690	3.20	Begin invent.	-40				
Error	60		Sales	720	( nk )			
Score	55.05		End invent.	-110				

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#### Production, inventory, and backlog

Each period, you have only one decision to make, namely <u>how much</u> <u>production to initiate</u>. There is a <u>three-period production lag</u> between the time production is initiated and the time it becomes "finished", available for sale (or storage in inventory).

If you sell <u>less</u> than the finished production, the rest piles up in your <u>inventory</u>. On the other hand, if you sell <u>more</u> than you have available, the excess sales accumulate in an order <u>backlog</u> (i.e. a negative inventory).

Theoretically, there is no limit on how much you produce, but you cannot cancel initiated production or destroy your inventory, i.e. you <u>cannot produce</u> <u>negative amounts</u>.

#### **Profits and costs**

Your <u>profits</u> each period is your <u>revenue</u> (sales x price) less your costs. Costs consist of production cost, incurred at the time of sale (called "<u>cost of goods</u> <u>sold</u>"), and <u>inventory/backlog costs</u>.

The <u>"cost of goods sold" is simply proportional to sales</u>, i.e. the unit production cost is constant.

Inventory/backlog costs are proportional to your inventory or backlog that you have at the beginning of each period. You might also say that your <u>inventory/backlog cost is proportional to the absolute value of your inventory</u>.

In the case where you have positive inventory, you can interpret the cost as a storage and financing charge. When you have a backlog (negative inventory), you can think of the cost as a rebate that you have to offer your <u>costor</u> to compensate for delayed delivery, or a penalty imposed on you for late delivery by a central planning ministry.

Your <u>gross profits</u> are your revenues less cost of goods sold. Your <u>net profits</u> are gross profits less inventory/backlog costs.

Note that both the unit production cost and the unit inventory/backlog cost are constant (and will not change at any time during the game).

# Price

In this version of the game, prices are <u>fixed</u> by government decree.

#### Sales

Your sales are influenced by <u>two factors</u> (in other versions of the market where prices are variable, sales would also be affected by price):

• <u>Multiplier effect</u> You can think of the market you are in as part of a regional economy where, if every firm has a high level of production, more people will be employed, which in turn will influence incomes and thus demand for all goods in the region, including your product. Conversely, if all firms produce less, people are laid off, and demand for your product will fall somewhat.

Thus, the demand for your product (and for the product of other firms) depends partly on the total amount of units in production. (Units in production includes both production started this period plus the amount in the "pipeline" started during the previous three periods).

• External factors Demand for your product, as well as demand for the products of your competitors, can be influenced by exogenous factors which are independent of anything you or your competitors do in the game.

The pattern of these "factors" will be known only to the experimenter, but you can be sure that there will not be a consistent trend of growth and decline. Moreover, these "factors" will remain in a "reasonable" range.

# Forecasts

In addition to your production decision, we ask you to make a <u>forecast of the</u> <u>average sales per firm in the market</u> (i.e. <u>not</u> the total market sales, and <u>not</u> your own sales).

We ask you to forecast this figure <u>3 periods into the future</u>. For instance, at the beginning of period 5, we ask you to forecast what you think the average sales per firm in the market will be in period 8.

On top of your profit-based reward, you will get a "bonus" of a couple of dollars, depending how you rank in your forecasting performance. Your performance is measured by a "<u>score</u>" which is the <u>average standard</u> <u>deviation</u> of your forecast (i.e. the root mean squared error). Thus, the lower your score, the better your performance. The fact that errors are squared

before they're summed means that it is better to have many small errors than a few large ones.

#### Length of game

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#### **Practice rounds**

In order to familiarize you with the game and the mechanics of using the machine, you will have a <u>practice session of 6 time periods</u>.

At the end of period 7, your <u>cumulative profits are then "reset"</u> so that they are equal to the profits you made during that period. Your <u>forecasting score is</u> <u>reset</u> in the same manner.

However, your <u>inventory and your production pipeline are not reset!!</u> Note that, due to the lag, your <u>decisions will start to be important beginning in period 4</u>.

# Making your decisions

When you are ready to make your decisions, click the mouse on the text fields in the lower right-hand corner of your screen to bring the cursor into the appropriate field. (Hitting the <tab> or <enter> or <return> key does the same thing.) Type in your decision and, when you're finished, click on the "OK" button to execute them. You will then be asked to confirm each decision.

After all participants have entered their decisions, the computers calculate the results for that period and advance to the next period.

#### **Previous-period report**

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# Game instructions, posted-price, simple condition

#### Goal

As in life, the purpose of the game is for you to <u>maximize your profits</u>. For the experimenters, the purpose is to investigate how markets with different structures and price regimes behave.

Your dollar reward is based on your <u>cumulative net profits</u> in the game. Your cumulative profits are converted to real money using a <u>fixed exchange rate</u>. On average, you should earn <u>about \$30</u> in three hours of playing.

In addition, you will receive a <u>bonus for your forecasting</u> performance (see below). On average, the bonus will amount to a couple of dollars.

Period 10	Enter your decisions, then click OK							
Units in production Inventory Sales ? -110 ? Start Finish								
Unit producti Unit inventor	Unit production cost : \$ 2.50 Unit inventory /backlog cost : \$ 1.25							
Sum	mary l	Report	For Period 9		Tablas Granbs			
Marketing			Financial		Idules Oraphis			
Your price		3.20	Revenue	2304.00				
Avg. mkt. price	, ,	3.50	Cost of goods sold	1800.00	<u>Decisions:</u>			
Highest mkt. pr	ice	3.90	Gross protits	504.00	Brico			
Ava mkt sales		690	Net profits	454.00				
Your sales	•	720	End cum, profits	3715.00				
Sales rel. to mi	it. avg.	1.04	Production					
Forecasts	Avg. n	narket	Prod. starts	650	Forecasts for period 10			
	Sales	Price	Units in prod.	650	Mkt.avg. price			
Your forecast	750	3.20	Finished prod.	650	Ava.mkt. sales:			
Act "	690	3.50	Begin invent.	-40				
Error	60	-0.30	Sales	720	OK )			
Score	55.05	0.61	End invent.	-110				

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Your firm competes with other firms in the market. All firms are identical with respect to production cost, inventory cost, etc. Each firm sells only one

product, which for experimental reasons has been kept abstract. The products of different firms are quite alike but not identical. You can think of the product as a tire, a softdrink, or a men's shirt.

Each period, you have two decisions to make: <u>what price to charge for your</u> <u>product</u>, and <u>how much to produce</u>.

#### Froduction, inventory, and backlog

If you sell <u>less</u> than what you produce, the rest piles up in your <u>inventory</u>. On the other hand, if you sell <u>more</u> than you have available, the excess sales accumulate in an order <u>backlog</u> (i.e. a negative inventory).

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The <u>"cost of goods sold" is simply proportional to sales</u>, i.e. the unit production cost is constant.

Inventory/backlog costs are proportional to your inventory or backlog that you have at the beginning of each period. You might also say that your <u>inventory/backlog cost is proportional to the absolute value of your</u> <u>inventory</u>.

In the case where you have positive inventory, you can interpret the cost as a storage and financing charge. When you have a backlog (negative inventory), you can think of the cost as a rebate that you have to offer your customers to compensate for delayed delivery, or a penalty imposed on you for late delivery by a central planning ministry.

Your gross profits are your revenues less cost of goods sold. Your <u>net profits</u> are gross profits less inventory/backlog costs.

Note that both the unit production cost and the unit inventory/backlog cost are constant (and will not change at any time during the game).

#### Price

You are free to choose any price you want for your product. The only limitation is that price must be greater than zero. If you charge a higher price,

you will make more profits per unit but also sell fewer units, as described below.

Sales

Your sales are influenced by three factors:

- Your price, relative to the average market price that period will have a strong effect on how much you sell. Since the products of your competitors are fairly similar to your product, customers are quite sensitive to price. Thus, if you charge a higher price than the market average, you will probably sell quite a bit less than the average firm does. Conversely, if you charge a lower price, you will sell more than the average.
- <u>The average market price</u> charged by all firms in the market will affect how much the average firm sells, but this effect is weaker than the effect of how much you charge, relative to the other firms. Thus, if all firms increase their price, they will all sell somewhat less, but if only one firm raises its price, that firm will sell a lot less.

Note that only <u>current</u> prices matter. Customers have no loyalty to your brand, and your market share in previous periods will not have any effect on your market share this period.

• <u>External factors</u> Demand for your product, as well as demand for the products of your competitors, can be influenced by exogenous factors which are <u>independent of anything you or your competitors do in the game</u>.

The pattern of these "factors" will be known only to the experimenter, but you can be sure that there will not be a consistent trend of growth and decline. Moreover, these "factors" will remain in a "reasonable" range.

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In addition to your production decision, we ask you to make both a <u>forecast of</u> <u>the average sales per firm in the market</u> (i.e. <u>not</u> the total market sales, and <u>not</u> your own sales) and a <u>forecast of the average market price</u>. The average market price is an average of all firms' prices, weighted by their sales. We ask you to forecast both of these figures <u>for the current period</u>.

On top of your profit-based reward, you will get a "bonus" of a couple of dollars, depending how you rank in your forecasting performance. (The two forecasts will be ranked separately.) Your performance is measured by a "score" which is the average standard deviation of your forecast (i.e. the root

mean squared error). Thus, the lower your score, the better your performance. The fact that errors are squared before they're summed means that it is better to have many small errors than a few large ones.

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# Making your decisions

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Period 10	Enter your decisions, then click OK						
<b>?</b> Start Unit product	Units in productionInventorySales?720730700-110?StartFinish???Unit production cost:\$ 2.50						
Sum	Summary Report For Period 9						
Your price Avg. mkt. price Highest mkt. pr	e	3.20 3.50 3.90	Revenue Cost of goods sold Gross profits	2304.00 1800.00 504.00	<u>Decisions:</u>		
Lowest mkt. pr Avg. mkt. sales Your sales	rice S	2.95 690 720	Inventory costs Net profits End cum, profits	50.00 454.00 3715.00	Price Prod. starts:		
Sales rel. to m Forecasts	kt. avg. Avg. n Salec	1.04 narket Price	Production Prod. starts Units in prod	720	Forecasts for period 13		
Your forecast Act 7 Error	750 690 60	3.20 3.50 -0.30	Finished prod. Begin invent. Sales	650 -40 720	Avg.mkt. sales:		
Score	55.05	0.61	End invent.	-110			

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Each period, you have two decisions to make: what price to charge for your product, and how much production to initiate.

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Your <u>gross profits</u> are your revenues less cost of goods sold. Your <u>net profits</u> are gross profits less inventory/backlog costs.

Note that both the unit production cost and the unit inventory/backlog cost are constant (and will not change at any time during the game).

# Price

You are free to choose any price you want for your product. The only limitation is that price must be greater than zero. If you charge a higher price, you will make more profits per unit but also sell fewer units, as described below.

### Sales

Your sales are influenced by four factors:

- Your price, relative to the average market price that period will have a strong effect on how much you sell. Since the products of your competitors are fairly similar to your product, customers are quite sensitive to price. Thus, if you charge a higher price than the market average, you will probably sell quite a bit less than the average firm does. Conversely, if you charge a lower price, you will sell more than the average.
- <u>The average market price</u> charged by all firms in the market will affect how much the average firm sells, but this effect is weaker than the effect of how much you charge, relative to the other firms. Thus, if all firms increase their price, they will all sell somewhat less, but if only one firm raises its price, that firm will sell a lot less.

Note that only <u>current</u> prices matter. Customers have no loyalty to your brand, and your market share in previous periods will not have any effect on your market share this period.

- <u>Multiplier effect</u> You can think of the market you are in as part of a regional economy where, if every firm has a high level of production, more people will be employed, which in turn will influence incomes and thus demand for all goods in the region, including your product. Conversely, if all firms produce less, people are laid off, and demand for your product will fall somewhat.
- Thus, the demand for your product (and for the product of other firms) depends partly on the total amount of units in production. (Units in production includes both production started this period plus the amount in the "pipeline" started during the previous three periods).
- External factors Demand for your product, as well as demand for the products of your competitors, can be influenced by exogenous factors which are independent of anything you or your competitors do in the game.

The pattern of these "factors" will be known only to the experimenter, but you can be sure that there will not be a consistent trend of growth and decline. Moreover, these "factors" will remain in a "reasonable" range.

#### Forecasts

In addition to your production decision, we ask you to make both a <u>forecast of</u> <u>the average sales per firm in the market</u> (i.e. <u>not</u> the total market sales, and <u>not</u> your own sales) and a <u>forecast of the average market price</u>. The average market price is an average of all firms' prices, weighted by their sales.

We ask you to forecast both of these figures <u>3 periods into the future</u>. For instance, at the beginning of period 5, we ask you to forecast what you think the average sales per firm and the average market price will be in period 8.

On top of your profit-based reward, you will get a "bonus" of a couple of dollars, depending how you rank in your forecasting performance. (The two forecasts will be ranked separately.) Your performance is measured by a "score" which is the <u>average standard deviation</u> of your forecast (i.e. the root mean squared error). Thus, the lower your score, the better your performance. The fact that errors are squared before they're summed means that it is better to have many small errors than a few large ones.

# Length of game

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# **Practice rounds**

In order to familiarize you with the game and the mechanics of using the machine, you will have a <u>practice session of 6 time periods</u>.

At the end of period 7, your <u>cumulative profits are then "reset"</u> so that they are equal to the profits you made during that period. Your <u>forecasting score is reset</u> in the same manner.

However, your <u>inventory and your production pipeline are not reset!!!</u> Note that, due to the lag, your <u>decisions will start to be important beginning in period 4</u>.

#### Making your decisions

When you are ready to make your decisions, click the mouse on the text fields in the lower right-hand corner of your screen to bring the cursor into the appropriate field. (Hitting the <tab> or <enter> or <return> key does the same thing.) Type in your decision and, when you're finished, click on the "OK" button to execute them. You will then be asked to confirm each decision.

After all participants have entered their decisions, the computers calculate the results for that period and advance to the next period.

#### **Previous-period report**

On the lower left part of the screen, you will see a summary report for the previous period. The report lists both prices for last period, your forecasting performance, your production, inventory and sales, and your profits, costs and cumulative profits.

#### **Graphs and Tables**

Just above your decision area in the lower left part of the screen, you will find two "pop-up menus" which allow you to look at data for previous periods in both graphical and tabular form. To use the menus, move the mouse to the appropriate menu and depress and hold down the mouse button, and the menu will "pop" up. Move the mouse (still holding down the button) to the desired item in the menu (items will turn black as you move over them) and then release the mouse button to select that graph or table.

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# Game instructions, clearing-price, simple condition

# Goal

As in life, the purpose of the game is for you to <u>maximize your profits</u>. For the experimenters, the purpose is to investigate how markets with different structures and price regimes behave.

Your dollar reward is based on your <u>cumulative net profits</u> in the game. Your cumulative profits are converted to real money using a <u>fixed exchange rate</u>. On average, you should earn <u>about \$30</u> in three hours of playing.

In addition, you will receive a <u>bonus for your forecasting</u> performance (see below). On average, the bonus will amount to a couple of dollars.

Period 10	od Enter your decisions, then click OK )							
Units in production Inventory Sales ? 0 ? Start Einish								
Unit producti Unit inventor	Unit production cost: \$ 2.50 Unit inventory/backlog cost: \$ 1.25							
Sum	mary I	Report	For Period 9					
Marketing			Financial	]	ladies Graphs			
Your price		3.20	Revenue	2304.00				
Avg. mkt. price		3.50	Cost of goods sold	1800.00	Decisions:			
Highest mkt. pr	ice	3.90	Gross profits	504.00				
Lowest mkt. pr	ice	2.95	Inventory costs	0.00				
Your sales	i	720	Fod cum profits	3715.00	Prod. starts:			
Sales rel. to mk	t. avo.	1.04	Production	3/10.00				
Forecasts	Avg. n	narket	Prod starts	720	Forecasts for period 10			
	Sales	Price	Units in prod.	720	Mkt avg, price			
Youn forecast	750	3.20	Finished prod.	720	Avamkt sales			
Act	690	3.50	Begin invent.	0	Avg.IIIKC. Sules.			
Error	60	-0.30	Sales	720	lí ok )			
Score	55.05	0.61	End invent.	0				

Figure 1

# Your firm and the market

Figure 1 shows the screen that you will be seeing in the game. (The numbers in the figure are for illustration only--the numbers in your game will be different.)

Your firm competes with other firms in the market. All firms are identical with respect to production cost, inventory cost, etc. Each firm sells only one

product, which for experimental reasons has been kept abstract. The products of different firms are quite alike but not identical. You can think of the product as a tire, *e* softdrink, or a men's shirt.

### Production, inventory, and backlog

Each period, you must decide how much production to initiate.

All that you produce is brought to market, i.e. inventories or backlogs are not allowed in this version of the game.

Theoretically, there is no limit on how much you produce, but you cannot cancel initiated production and you <u>cannot produce negative amounts</u>.

#### **Profits and costs**

Your <u>profits</u> each period is your <u>revenue</u> (sales x price) less your costs. Costs consist of production cost, incurred at the time of sale (called "<u>cost of goods</u> <u>sold</u>"), and <u>inventory/backlog costs</u>.

The <u>"cost of goods sold" is simply proportional to sales</u>, i.e. the unit production cost is constant.

Your <u>gross profits</u> are your revenues less cost of goods sold. Your <u>net profits</u> are gross profits less inventory/backlog costs, but, since inventory is always zero in this version of the game, gross and net profits are the same.

Note that the unit production cost is constant (and will not change at any time during the game).

# Price

The price you receive for your product depends on three factors:

- <u>How much you are trying to sell, relative to the amounts supplied by</u> <u>other firms in the market.</u> Since the products of your competitors are fairly similar to your product, this effect is relatively small. Thus, if you supply more than the market average, you will probably get a somewhat lower price, but not a dramatically lower price. Conversely, if you supply less than the market average, your price will be higher, but probably not a lot higher.
- <u>The average amount supplied by all firms in the market will have a</u> stronger effect on the average price received. Thus, if all firms increase their output, they will all receive a significantly lower price. Conversely, if everyone lowers their output, the average price will increase.
Note that only <u>current</u> prices and supplies matter. Customers have no loyalty to your brand, and your market share and price in previous periods will not have any effect on your market share and price this period.

• <u>External factors</u> Demand for your product, as well as demand for the products of your competitors, can be influenced by exogenous factors which are <u>independent of anything you or your competitors do in the game</u>.

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#### **Practice rounds**

In order to familiarize you with the game and the mechanics of using the machine, you will have a <u>practice session of 3 time periods</u>.

At the end of period 4, your <u>cumulative profits are then "reset"</u> so that they are equal to the profits you made during that period. Your <u>forecasting score is</u> <u>reset</u> in the same manner.

#### Making your decisions

When you are ready to make your decisions, click the mouse on the text fields in the lower right-hand corner of your screen to bring the cursor into the appropriate field. (Hitting the <tab> or <enter> or <return> key does the same thing.) Type in your decision and, when you're finished, click on the "OK" button to execute them. You will then be asked to confirm each decision.

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Period 10	Enter your decisions, then click OK					
Units in pr ? 720 Start		in pro 7	duction 30 700 Finish	Invento O	ry <u>Sales</u> 700	
Unit production cost: \$ 2.50 Unit inventory /backlog cost: \$ 1.25						
Summary Report For Period 9						
Marketing			Financial			
Your price		3.20	Revenue	2304.00		
Avg. mkt. price 3.50		3.50	Cost of goods sold	1800.00	Decisions:	
Highest mkt. price 3.90		3 AB	Gross profits	504.00		
Lowest mkt. price 2.9.4		inventory costs	0.00			
Avg. mkt. sales 690		Net profits	504.00	Prod. starts:		
Your sales		720	End cum. profits	3715.00		
Sales rel. to m	kt. avg.	1.04	Production		Forests for parisd 17	
Forecasts	Avg. n	narket	Prod. starts	720	Forecasts for period 13	
	Sales	Price	Units in prod.	2870	Mkt.avg. price	
Your forecast	750	3.20	Finished prod.	720	Avamkt sales	
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#### Production, inventory, and backlog

Each period, you must decide how much production to initiate.

There is a <u>three-period production lag</u> between the time production is initiated and the time it becomes "finished", available for sale. All finished production is brought to market, i.e. inventories or backlogs are not allowed in this version of the game.

Theoretically, there is no limit on how much you produce, but you cannot cancel initiated production and you <u>cannot produce negative amounts</u>.

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The price you receive for your product depends on *four factors*:

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# Post-game questionnaire, simple conditions

#### Question 1

It was mentioned in the introduction to the game that overall market "demand" was influenced by two factors:

- Prices (both your own prices and the aggregate average price)
- "External factors" such as weather, macro-economic trends, etc.

If prices were constant, or if you set your own price, a higher/lower "demand" was expressed as more/less sales. If you did not set prices but prices were found by the computer, a higher/lower "demand" was expressed in higher/lower prices.

Although you were not told what the pattern of the "external factors" was, we would like you to sketch, on the graph on the next page, a curve over time of your best guess at what you think the pattern of "outside factors" was. Remember that the factors work to raise or lower demand, <u>all other things</u> <u>equal</u>. Remember that demand is also influenced by prices.

The value 0 (zero); indicates a neutral influence or, if you will, the "average" influence of the external factors. Points where the curve goes above 0 would indicate times that the factors worked to raise demand, <u>all other things equal</u>, above what it would otherwise have been. Conversely, points below 0 indicate that demand, again <u>all other things equal</u> would fall below "normal".

Don't worry too much about the exact numerical values or timing--just give a rough picture of the <u>pattern</u> of the factors. If you can, try to indicate an approximate magnitude of the factors by scaling the graph. The scale is expressed as a percentage of normal. For instance, in case prices were fixed or set by you, the factors might have worked to raise sales approximately 10% above normal. In the price-clearing case (where prices were found by the computer), a value of 10% would indicate that prices were 10% above where they would have been if no such factors were present.



# <u>Question 2</u>

Tell us, in your own words, how 'our production decision. Explain what happened in the congame. You might try to address the following questions in your explanation:

- What were you "trying to do"--i.e. what was your major strategy with regard to production?
- Did you have a specific procedure for arriving at a number? What were the factors of variables you primarily looked at or thought were the most relevant?
- How long did it take you to "settle" on your strategy?
- Were you surprised by the results? How?
- Were your consistent in your strategy, or did it change in the course of the game. How? When?

# **Question 3**

#### Ignore this question if you did not set your own price

Now tell us how you made your price decision. Explain what happened in the course of the game. You might try to address the following questions in your explanation:

• What were you "trying to do"--i.e. what was your major strategy with regard to price?

- Did you have a specific procedure for arriving at a number? What were the factors of variables you primarily looked at or thought were the most relevant?
- How long did it take you to "settle" on your strategy?
- Were you surprised by the results? How?
- Were your consistent in your strategy, or did it change in the course of the game. How? When?

#### **Question 4**

#### Ignore this question if you did not set your own price

Which do you feel was the "most important" decision--price or production? Explain.

#### **Question 5**

Although you do not know specifically how well other participants did in the game, you do know whether your profits were above or below the market average. What do you think you did "right" or "wrong" which led to your relative performance?

# Post-game questionnaire, complex conditions

#### **Question 1**

It was mentioned in the introduction to the game that overall market "demand" was influenced by three factors:

- Prices (both your own prices and the aggregate average price)
- Overall level of production ("units in production") in the market (the multiplier effect).]
- "External factors" such as weather, macro-economic trends, etc.

If prices were constant, or if you set your own price, a higher/lower "demand" was expressed as more/less sales. If you did not set prices but prices were found by the computer, a higher/lower "demand" was expressed in higher/lower prices.

Although you were not told what the pattern of the "external factors" was, we would like you to sketch, on the graph on the next page, a curve over time of your best guess at what you think the pattern of "outside factors" was. Remember that the factors work to raise or lower demand, <u>all other things equal</u>. Remember that demand is also influenced by prices and by the multiplier effect.

The value 0 (zero), indicates a neutral influence or, if you will, the "average" influence of the external factors. Points where the curve goes above 0 would indicate times that the factors worked to raise demand, <u>all other things equal</u>, above what it would otherwise have been. Conversely, points below 0 indicate that demand, again <u>all other things equal</u> would fall below "normal".

Don't worry too much about the exact numerical values or timing--just give a rough picture of the <u>pattern</u> of the factors. If you can, try to indicate an approximate magnitude of the factors by scaling the graph. The scale is expressed as a percentage of normal. For instance, in case prices were fixed or set by you, the factors might have worked to raise sales approximately 10% above normal. In the price-clearing case (where prices were found by the computer), a value of 10% would indicate that prices were 10% above where they would have been if no such factors were present.



#### **Question 2**

Tell us, in your own words, how you made your production decision. Explain what happened in the course of the game. You might try to address the following questions in your explanation:

- What were you "trying to do"--i.e. what was your major strategy with regard to production?
- Did you have a specific procedure for arriving at a number? What were the factors of variables you primarily looked at or thought were the most relevant?
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