S1. Table: Results from Alternative Specifications: The loss of value added <sup>379</sup> because of a Tokyo lockdown according to alternative specifications. (Unit: <sup>380</sup> trillion yen) <sup>381</sup>

$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
in Japanwith benchmarkA. All production activities are shut down1day0.4710.3490.820 (0.155)0.2591 week3.301.564.85 (0.916)1.152 weeks6.604.7911.4 (2.15)2.131 month14.117.031.1 (5.89)3.502 months28.343.972.1 (13.6)4.05B. Producers' use is prioritised over final consumers' use1day0.3090.2520.561 (0.106) $3.32 \times 10^{-4}$ 1 week2.171.513.67 (0.693)-0.0303-0.03032 weeks4.334.829.15 (1.73)-0.1071 month9.2817.827.0 (5.10)-0.6052 months18.648.266.7 (12.6)-1.38C. Proportional shutdown based on the business establishments and factories1day0.1070.07490.182 (0.0342)-0.3801 week0.7470.8711.62 (0.305)-2.092weeks1.494.195.68 (1.07)-3.581 month3.2019.322.5 (4.25)-5.10		Direct effect	Indirect effect		Total effect	
A. All production activities are shut down1 day $0.471$ $0.349$ $0.820 (0.155)$ $0.259$ 1 week $3.30$ $1.56$ $4.85 (0.916)$ $1.15$ 2 weeks $6.60$ $4.79$ $11.4 (2.15)$ $2.13$ 1 month $14.1$ $17.0$ $31.1 (5.89)$ $3.50$ 2 months $28.3$ $43.9$ $72.1 (13.6)$ $4.05$ B. Producers' use is prioritised over final consumers' use1 day $0.309$ $0.252$ $0.561 (0.106)$ $3.32 \times 10^{-4}$ 1 week $2.17$ $1.51$ $3.67 (0.693)$ $-0.0303$ 2 weeks $4.33$ $4.82$ $9.15 (1.73)$ $-0.107$ 1 month $9.28$ $17.8$ $27.0 (5.10)$ $-0.605$ 2 months $18.6$ $48.2$ $66.7 (12.6)$ $-1.38$ C. Proportional shutdown based on the business establishments and factories1 day $0.107$ $0.0749$ $0.182 (0.0342)$ $-0.380$ 1 week $0.747$ $0.871$ $1.62 (0.305)$ $-2.09$ 2 weeks $1.49$ $4.19$ $5.68 (1.07)$ $-3.58$ 1 month $3.20$ $19.3$ $22.5 (4.25)$ $-5.10$		on Tokyo	on other regions	(%  of GDP)	difference	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			in Japan		with benchmark	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	A. All production activities are shut down					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1  \mathrm{day}$	0.471	0.349	0.820(0.155)	0.259	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 week	3.30	1.56	4.85(0.916)	1.15	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2 weeks	6.60	4.79	11.4(2.15)	2.13	
B. Producers' use is prioritised over final consumers' use1 day $0.309$ $0.252$ $0.561$ ( $0.106$ ) $3.32 \times 10^{-4}$ 1 week $2.17$ $1.51$ $3.67$ ( $0.693$ ) $-0.0303$ 2 weeks $4.33$ $4.82$ $9.15$ ( $1.73$ ) $-0.107$ 1 month $9.28$ $17.8$ $27.0$ ( $5.10$ ) $-0.605$ 2 months $18.6$ $48.2$ $66.7$ ( $12.6$ ) $-1.38$ C. Proportional shutdown based on the business establishments and factories1 day $0.107$ $0.0749$ $0.182$ ( $0.0342$ ) $-0.380$ 1 week $0.747$ $0.871$ $1.62$ ( $0.305$ ) $-2.09$ 2 weeks $1.49$ $4.19$ $5.68$ ( $1.07$ ) $-3.58$ 1 month $3.20$ $19.3$ $22.5$ ( $4.25$ ) $-5.10$	1  month	14.1	17.0	31.1(5.89)	3.50	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					4.05	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B. Producers' use is prioritised over final consumers' use					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1  \mathrm{day}$	0.309	0.252	$0.561 \ (0.106)$	$3.32{ imes}10^{-4}$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 week	2.17	1.51	3.67(0.693)	-0.0303	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2 weeks	4.33	4.82	9.15(1.73)	-0.107	
C. Proportional shutdown based on the business establishments and factories1 day $0.107$ $0.0749$ $0.182$ $(0.0342)$ $-0.380$ 1 week $0.747$ $0.871$ $1.62$ $(0.305)$ $-2.09$ 2 weeks $1.49$ $4.19$ $5.68$ $(1.07)$ $-3.58$ 1 month $3.20$ $19.3$ $22.5$ $(4.25)$ $-5.10$	1  month	9.28	17.8	27.0(5.10)	-0.605	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 months	18.6	48.2	66.7(12.6)	-1.38	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C. Proportional shutdown based on the business establishments and factories					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 day	0.107	0.0749	0.182(0.0342)	-0.380	
1 month $3.20$ 19.3 $22.5(4.25)$ -5.10	1 week	0.747	0.871	1.62(0.305)	-2.09	
	2 weeks	1.49	4.19	5.68(1.07)	-3.58	
	1 month	3.20	19.3	22.5(4.25)	-5.10	
	2  months	6.40	56.2	62.6 (11.8)	-5.52	