

LAMPIRAN

Lampiran 1. Sidik Ragam dan Uji Lanjut Jumlah Daun

Tests of Between-Subjects Effects

Dependent Variable: jumlah daun 2

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	7.000 ^a	8	.875	2.625	.042
Intercept	546.750	1	546.750	1640.250	.000
S	1.167	2	.583	1.750	.202
B	1.500	2	.750	2.250	.134
S * B	4.333	4	1.083	3.250	.036
Error	6.000	18	.333		
Total	559.750	27			
Corrected Total	13.000	26			

a. R Squared = .538 (Adjusted R Squared = .333)

Tests of Between-Subjects Effects

Dependent Variable: jumlah daun 3

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	19.833 ^a	8	2.479	2.818	.032
Intercept	1408.333	1	1408.333	1601.053	.000
S	8.167	2	4.083	4.642	.024
B	4.389	2	2.194	2.495	.111
S * B	7.278	4	1.819	2.068	.127
Error	15.833	18	.880		
Total	1444.000	27			
Corrected Total	35.667	26			

a. R Squared = .556 (Adjusted R Squared = .359)

Tests of Between-Subjects Effects

Dependent Variable: jumlah daun 4

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12.130 ^a	8	1.516	6.065	.001
Intercept	2862.370	1	2862.370	11449.481	.000
S	3.630	2	1.815	7.259	.005
B	3.185	2	1.593	6.370	.008
S * B	5.315	4	1.329	5.315	.005
Error	4.500	18	.250		
Total	2879.000	27			

Corrected Total	16.630	26			
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a. R Squared = .729 (Adjusted R Squared = .609)

Tests of Between-Subjects Effects

Dependent Variable: jumlah daun 5

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	85.333 ^a	8	10.667	6.817	.000
Intercept	14700.000	1	14700.000	9394.083	.000
S	3.722	2	1.861	1.189	.327
B	2.167	2	1.083	.692	.513
S * B	79.444	4	19.861	12.692	.000
Error	28.167	18	1.565		
Total	14813.500	27			
Corrected Total	113.500	26			

a. R Squared = .752 (Adjusted R Squared = .642)

jumlah daun 2

Duncan^a

Interaksi	N	0.05	
		1	2
S2B3	3	3,6667	
S1B1	3	4,0000	4,0000
S1B2	3	4,0000	4,0000
S3B3	3	4,1667	4,1667
S1B3	3	4,6667	4,6667
S2B1	3		5,0000
S2B2	3		5,0000
S3B1	3		5,0000
S3B2	3		5,0000
Sig.		,071	,079

Means for groups in homogeneous subsets

a. Uses Harmonic Mean Sample Size =

jumlah daun 3

Duncan^a

Interaksi	N	Subset for alpha = 0.05		
		1	2	3
S2B3	3	5,6667		
S1B2	3	6,5000	6,5000	
S1B3	3	6,5000	6,5000	
S3B2	3	7,3333	7,3333	7,3333
S3B1	3	7,3333	7,3333	7,3333
S1B1	3		7,5000	7,5000
S2B2	3		7,5000	7,5000
S3B3	3		7,8333	7,8333
S2B1	3			8,8333
Sig.		,064	,142	,098

Means for groups in homogeneous subsets are

a. Uses Harmonic Mean Sample Size = 3.000.

jumlah daun 4

Duncan^a

Interaksi	N	Subset for alpha = 0.05			
		1	2	3	4
S1B3	3	9,5000			
S3B2	3	9,6667	9,6667		
S1B2	3	9,8333	9,8333		
S2B3	3	10,0000	10,0000	10,0000	
S3B1	3	10,1667	10,1667	10,1667	
S1B1	3	10,3333	10,3333	10,3333	
S2B2	3		10,5000	10,5000	
S3B3	3			10,8333	
S2B1	3				11,8333
Sig.		,085	,085	,081	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

jumlah daun 5

Duncan^a

Interaksi	N	Subset for alpha = 0.05			
		1	2	3	4
S3B1	3	20,5000			
S2B2	3	21,1667	21,1667		
S2B3	3	22,3333	22,3333	22,3333	
S1B2	3		23,3333	23,3333	
S3B3	3		23,3333	23,3333	
S1B1	3			23,8333	
S1B3	3			24,0000	
S3B2	3			24,6667	
S2B1	3				26,8333
Sig.		,105	,066	,056	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 2. Sidik Ragam dan Uji Lanjut Tinggi Tanaman

Tests of Between-Subjects Effects

Dependent Variable: tinggi tanaman 2

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	23.913 ^a	8	2.989	2.557	.047
Intercept	7907.045	1	7907.045	6762.975	.000
S	4.174	2	2.087	1.785	.196
B	10.586	2	5.293	4.527	.026
S * B	9.154	4	2.288	1.957	.145
Error	21.045	18	1.169		
Total	7952.003	27			
Corrected Total	44.958	26			

a. R Squared = .532 (Adjusted R Squared = .324)

Tests of Between-Subjects Effects

Dependent Variable: tinggi tanaman 3

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	70.189 ^a	8	8.774	11.267	.000
Intercept	14294.502	1	14294.502	18356.793	.000
S	6.580	2	3.290	4.225	.031
B	23.100	2	11.550	14.832	.000
S * B	40.508	4	10.127	13.005	.000
Error	14.017	18	.779		
Total	14378.708	27			
Corrected Total	84.205	26			

a. R Squared = .834 (Adjusted R Squared = .760)

Tests of Between-Subjects Effects

Dependent Variable: tinggi tanaman 4

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	204.007 ^a	8	25.501	4.532	.004
Intercept	24867.273	1	24867.273	4419.321	.000
S	2.854	2	1.427	.254	.779
B	94.499	2	47.249	8.397	.003
S * B	106.655	4	26.664	4.739	.009
Error	101.285	18	5.627		
Total	25172.565	27			
Corrected Total	305.292	26			

a. R Squared = .668 (Adjusted R Squared = .521)

Tests of Between-Subjects Effects

Dependent Variable: tinggi tanaman5

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	568.074 ^a	8	71.009	7.388	.000
Intercept	61728.926	1	61728.926	6422.663	.000
S	25.685	2	12.843	1.336	.288
B	271.407	2	135.704	14.119	.000
S * B	270.981	4	67.745	7.049	.001
Error	173.000	18	9.611		
Total	62470.000	27			
Corrected Total	741.074	26			

a. R Squared = .767 (Adjusted R Squared = .663)

tinggi tanaman 2

Duncan^a

Interaksi	N	Subset for alpha = 0.05		
		1	2	3
S1B2	3	15,1333		
S3B2	3	16,1333	16,1333	
S1B1	3	16,8000	16,8000	16,8000
S3B3	3	17,1167	17,1167	17,1167
S2B3	3	17,1333	17,1333	17,1333
S2B2	3		17,5000	17,5000
S1B3	3		17,8000	17,8000
S3B1	3		18,1333	18,1333
S2B1	3			18,2667
Sig.		,055	,060	,160

Means for groups in homogeneous subsets are

a. Uses Harmonic Mean Sample Size = 3.000.

tinggi tanaman 3

Duncan^a

Interaksi	N	Subset for alpha = 0.05		
		1	2	3
S1B2	3	20,1333		
S2B3	3	20,7333	20,7333	
S3B2	3		23,0000	23,0000
S1B1	3		23,2500	23,2500
S2B2	3		23,2500	23,2500
S1B3	3		23,5000	23,5000
S3B3	3		23,5000	23,5000
S3B1	3		23,5833	23,5833
S2B1	3			25,1667
Sig.		,650	,068	,158

Means for groups in homogeneous subsets are

a. Uses Harmonic Mean Sample Size = 3,000.

tinggi tanaman 4

Duncan^a

Interaksi	N	Subset for alpha = 0.05		
		1	2	3
S2B3	3	25,6667		
S1B2	3	27,4333	27,4333	
S3B3	3	29,4667	29,4667	
S2B2	3	29,5000	29,5000	
S1B3	3		31,0000	
S3B2	3		31,1667	
S1B1	3		31,3333	
S3B1	3		31,5000	
S2B1	3			36,0667
Sig.		,084	,080	1,000

Means for groups in homogeneous subsets are

a. Uses Harmonic Mean Sample Size = 3.000.

tinggi tanaman5

Duncan^a

Interaksi	N	Subset for alpha = 0.05			
		1	2	3	4
S2B3	3	40,5000			
S1B2	3	42,0000	42,0000		
S3B3	3	45,1667	45,1667	45,1667	
S2B2	3		47,3333	47,3333	
S1B3	3			48,0000	
S1B1	3			49,5000	
S3B1	3			50,3333	
S3B2	3			51,0000	
S2B1	3				56,5000
Sig.		,097	,060	,054	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 3. Sidik Ragam dan Uji Lanjut Diameter Tanaman

Tests of Between-Subjects Effects

Dependent Variable: diameter batang 2

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	29.183 ^a	8	3.648	5.270	.002
Intercept	15470.507	1	15470.507	22349.047	.000
S	2.847	2	1.424	2.057	.157
B	8.565	2	4.283	6.187	.009
S * B	17.770	4	4.443	6.418	.002
Error	12.460	18	.692		
Total	15512.150	27			
Corrected Total	41.643	26			

a. R Squared = .701 (Adjusted R Squared = .568)

Tests of Between-Subjects Effects

Dependent Variable: diameter batang 3

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	163.019 ^a	8	20.377	5.572	.001
Intercept	26071.148	1	26071.148	7128.314	.000
S	4.574	2	2.287	.625	.546
B	59.130	2	29.565	8.084	.003
S * B	99.315	4	24.829	6.789	.002
Error	65.833	18	3.657		
Total	26300.000	27			
Corrected Total	228.852	26			

a. R Squared = .712 (Adjusted R Squared = .584)

Tests of Between-Subjects Effects

Dependent Variable: diameter batang 4

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	620.167 ^a	8	77.521	7.625	.000
Intercept	43802.083	1	43802.083	4308.402	.000
S	28.667	2	14.333	1.410	.270
B	282.167	2	141.083	13.877	.000
S * B	309.333	4	77.333	7.607	.001
Error	183.000	18	10.167		
Total	44605.250	27			
Corrected Total	803.167	26			

a. R Squared = .772 (Adjusted R Squared = .671)

Tests of Between-Subjects Effects

Dependent Variable: diameter batang 5

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	705.059 ^a	8	88.132	7.582	.000
Intercept	91478.761	1	91478.761	7869.517	.000
S	210.812	2	105.406	9.068	.002
B	164.512	2	82.256	7.076	.005
S * B	329.735	4	82.434	7.091	.001
Error	209.240	18	11.624		
Total	92393.060	27			
Corrected Total	914.299	26			

a. R Squared = .771 (Adjusted R Squared = .669)

diameter batang 2

Duncan^a

Interaksi	N	Subset for alpha = 0.05		
		1	2	3
S1B2	3	22,8333		
S3B1	3	23,0000		
S3B2	3	23,1000		
S1B1	3	23,5000		
S3B3	3	23,5000		
S2B3	3	23,9000		
S1B3	3	24,1667	24,1667	
S2B2	3		25,4333	25,4333
S2B1	3			26,0000
Sig.		,100	,079	,415

Means for groups in homogeneous subsets are

a. Uses Harmonic Mean Sample Size = 3.000.

diameter batang 3

Duncan^a

Interaksi	N	Subset for alpha = 0.05		
		1	2	3
S2B3	3	25,8333		
S1B2	3		29,8333	
S2B2	3		30,1667	
S3B1	3		30,6667	
S3B3	3		31,1667	
S1B3	3		31,5000	
S3B2	3		32,0000	
S1B1	3		33,0000	33,0000
S2B1	3			35,5000
Sig.		1,000	,090	,127

Means for groups in homogeneous subsets are

a. Uses Harmonic Mean Sample Size = 3.000.

diameter batang 4

Duncan^a

Interaksi	N	Subset for alpha = 0.05		
		1	2	3
S1B2	3	32,6667		
S2B3	3	33,0000		
S3B3	3		38,6667	
S3B2	3		41,0000	
S1B3	3		41,3333	
S2B2	3		41,3333	
S1B1	3		42,5000	
S3B1	3		42,8333	
S2B1	3			49,1667
Sig.		,900	,171	1,000

Means for groups in homogeneous subsets are

a. Uses Harmonic Mean Sample Size = 3.000.

diameter batang 5

Duncan^a

Interaksi	N	Subset for alpha = 0.05			
		1	2	3	4
S1B1	3	52,0000			
S3B3	3	52,0000			
S1B3	3	56,2000	56,2000		
S1B2	3	56,6667	56,6667		
S2B2	3	57,1667	57,1667	57,1667	
S3B2	3	58,3333	58,3333	58,3333	
S2B3	3		58,8333	58,8333	
S3B1	3			63,3333	
S2B1	3				69,3333
Sig.		,057	,405	,055	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 4. Sidik Ragam dan Uji Lanjut Hasil Produksi

Tests of Between-Subjects Effects

Dependent Variable: jumlah polong

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	21593.599 ^a	8	2699.200	164.637	.000
Intercept	463766.295	1	463766.295	28287.376	.000
S	3981.903	2	1990.951	121.438	.000
B	610.503	2	305.251	18.619	.000
S * B	17001.193	4	4250.298	259.246	.000
Error	295.107	18	16.395		
Total	485655.000	27			
Corrected Total	21888.705	26			

a. R Squared = .987 (Adjusted R Squared = .981)

Tests of Between-Subjects Effects

Dependent Variable: berat polong

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	41913.461 ^a	8	5239.183	228.804	.000
Intercept	743547.273	1	743547.273	32471.939	.000
S	14337.739	2	7168.869	313.076	.000
B	665.205	2	332.603	14.525	.000
S * B	26910.517	4	6727.629	293.807	.000
Error	412.167	18	22.898		
Total	785872.900	27			
Corrected Total	42325.627	26			

a. R Squared = .990 (Adjusted R Squared = .986)

Tests of Between-Subjects Effects

Dependent Variable: jumlah biji

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	128578.780 ^a	8	16072.348	692.575	.000
Intercept	1657930.680	1	1657930.680	71442.000	.000
S	13971.549	2	6985.774	301.024	.000
B	3474.549	2	1737.274	74.861	.000
S * B	111132.682	4	27783.171	1197.206	.000
Error	417.720	18	23.207		
Total	1786927.180	27			
Corrected Total	128996.500	26			

a. R Squared = .997 (Adjusted R Squared = .995)

Tests of Between-Subjects Effects

Dependent Variable: berat biji

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	8057.333 ^a	8	1007.167	124.455	.000
Intercept	73947.000	1	73947.000	9137.616	.000
S	2080.500	2	1040.250	128.543	.000
B	1048.167	2	524.083	64.761	.000
S * B	4928.667	4	1232.167	152.259	.000
Error	145.667	18	8.093		
Total	82150.000	27			
Corrected Total	8203.000	26			

a. R Squared = .982 (Adjusted R Squared = .974)

jumlah polong

Duncan^a

interaksi	N	Subset for alpha = 0.05				
		1	2	3	4	5
S3B1	3	83,7000				
S2B3	3		102,1667			
S1B2	3			126,0000		
S1B3	3			126,2000		
S1B1	3			128,0000		
S2B2	3				137,4667	
S3B2	3				138,8333	
S3B3	3				144,6667	
S2B1	3					192,5000
Sig.		1,000	1,000	,575	,053	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

bobot polong

Duncan^a

interaksi	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
S3B1	3	94,0000						
S2B3	3		146,1667					
S3B2	3		154,0000	154,0000				
S1B3	3			155,6667	155,6667			
S1B1	3				163,0000	163,0000		
S2B2	3					171,1667	171,1667	
S3B3	3						175,3000	
S1B2	3						179,7333	
S2B1	3							254,5000
Sig.		1,000	,060	,675	,077	,051	,051	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

jumlah biji

Duncan^a

interaksi	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
S3B1	3	149,1667						
S1B2	3		187,0000					
S2B3	3			227,0000				
S1B1	3			227,4667				
S1B3	3			231,5000				
S3B3	3				246,6667			
S3B2	3					267,0000		
S2B2	3						283,2000	
S2B1	3							411,2000
Sig.		1,000	1,000	,293	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

berat biji

Duncan^a

interaksi	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
S3B1	3	24,0000						
S2B3	3		41,6667					
S3B2	3		45,5000	45,5000				
S1B3	3			47,0000	47,0000			
S1B2	3			48,1667	48,1667			
S3B3	3				52,0000	52,0000		
S2B2	3					53,5000		
S1B1	3						69,8333	
S2B1	3							89,3333
Sig.		1,000	,116	,292	,055	,527	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 5. Varietas kedelai



DIREKTORAT PERBENIHAN
DIREKTORAT JENDERAL
TANAMAN PANGAN
KEMENTERIAN PERTANIAN



DINAS PERTANIAN DAN
KETAHANAN PANGAN
DAERAH ISTIMEWA YOGYAKARTA

KEDELAI

DETAP-1

Nama Varietas	: DETAP 1
Dilepas tahun	: 22 Mei 2017
Asal	: Seleksi persilangan G511H dengan Anjasmoro
Tipe tumbuh	: Determinit
Potensi hasil	: 3,58 t/ha biji kering (pada KA 12%)
Hasil biji rata-rata	: $\pm 2,70$ t/ha biji Kering (pada KA 12%)
Umur berbunga	: ± 35 hari
Umur masak	: ± 78 hari
Tinggi tanaman	: $\pm 68,7$ cm
Warna daun	: Hijau
Warna bulu	: Putih
Bentuk daun	: Agak bulat
Ukuran daun	: Sedang
Warna hipokotil	: Ungu
Warna epikotil	: Hijau
Warna bunga	: Ungu
Warna kulit polong	: Kuning
Bentuk biji	: Bulat
Warna kulit biji	: Kuning
Warna hilum	: Kuning
Warna kotiledon	: Putih
Kerebahan	: Agak tahan rebah
Percabangan	: 3 – 6 cabang/tanaman
Jumlah polong/trm.	: ± 51 polong
Pecah polong	: Tahan pecah polong
Bobot 100 butir	: $\pm 15,37$ g
Ukuran biji	: Besar
Kecerahan kulit biji	: Mengkilat
Kandungan protein	: $\pm 40,11$ %
Kandungan lemak	: $\pm 16,16$ % bk
Ketahanan terhadap hama dan penyakit	: Peka thd hama ulat grayak (<i>Spodoptera litura</i>), agak tahan thd hama penggerek polong (<i>Etiella zinckenella</i>), tahan thd hama pengisap polong (<i>Riptortus linearis</i>), dan tahan thd penyakit karat daun (<i>Phakopsora pachyrhizi</i> Syd), peka thd penyakit virus SMV.
Pemulia	: Ayda Krisnawati, M. Muchlish Adie, Gatut Wahyu AS.
Peneliti	: Erliana Ginting, Eriyanto Yusnawan, Marida Santi Yudha Ika Bayu, Kurnia Paramita Sari, dan Didik Harnowo



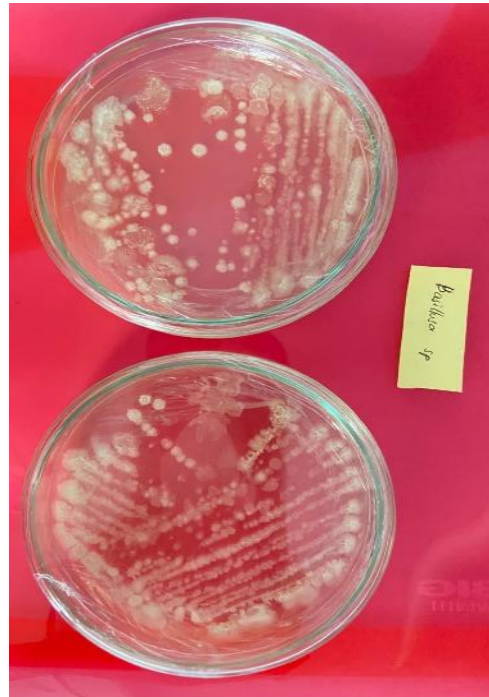
Gebyar Perbenihan Tanaman Pangan Tahun 2023



Lampiran 6. Dokumentasi Penelitian



Gambar 1. Perbanyakan bakteri



Gambar 2. Isolat bakteri



Gambar 3. Persiapan media tanam



Gambar 4. Aplikasi biomatriconditioning



Gambar 5. penataan denah



Gambar 6. Kontrol tanaman



Gambar 7. Pengamatan tinggi tanaman



Gambar 8. pengairan



Gambar 9. Polong kedelai



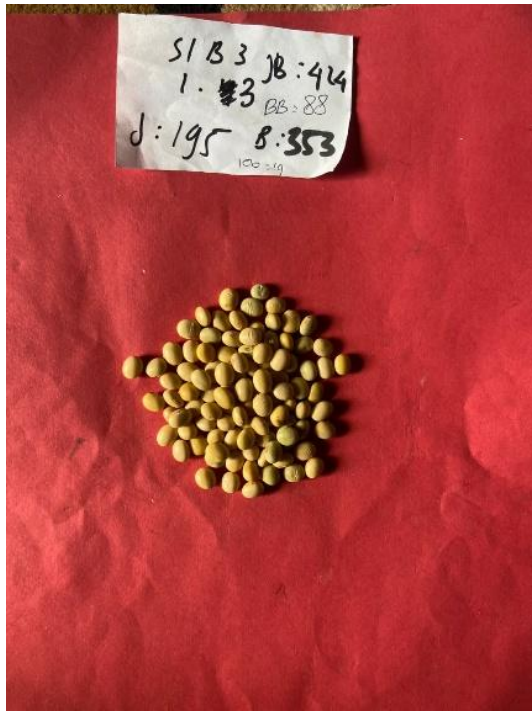
Gambar 10. Pemanenan



Gambar 11. Polong kedelai



Gambar 12. Penjemuran polong



Gambar 13. Biji Kedelai



Gambar 14. Hasil keseluruhan biji kedelai

Lampiran 7. Denah penelitian

DENAH PENELITIAN									
	S2B3			S3B1			S1B3		
	S1B2			S3B2			S2B1		
	S1B3			S2B1			S1B2		
	S3B1			S1B1			S2B3		
	S2B1			S1B3			S3B1		
	S3B3			S2B2			S1B1		
	S1B1			S3B3			S3B2		
	S2B2			S2B3			S3B3		
	S3B2			S1B2			S2B2		