

**Final Results per stage and division
Sumarsmellen
2020-08-08**

COMBINED Results per stage

Stage: 1. Blindfold

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	60.0000	7.6716	57	7.43	39. Christoffer Bjelland	+Standard	-	B	cbjelland
2	90.73	54.4389	6.9606	60	8.62	10. Simon Ravn	-Production	-	U	raven
3	86.40	51.8372	6.6279	57	8.60	33. Arne Monsen	+Open	S	U	bergenbom
4	84.40	50.6399	6.4748	54	8.34	20. Tore Varlid	-Production	-	U	gungne
5	77.90	46.7427	5.9765	56	9.37	21. Per Sørstrønen	-Standard	-	U	perpistol
6	70.31	42.1848	5.3937	50	9.27	1. Carl-Magnus Nilsen	-Production Optics	-	U	cmn
7	68.81	41.2841	5.2786	54	10.23	27. Yngve Rørstadbotten-Hæve	-Production	-	U	yhaeve
8	64.61	38.7652	4.9565	57	11.50	13. Torbjørn Sæbø	+Open	-	U	toold
9	62.77	37.6616	4.8154	60	12.46	5. Øystein Paulsen	-Pistol Caliber Carbine	-	U	
10	62.59	37.5526	4.8015	52	10.83	35. Warren Tolentino	-Standard	-	U	bugz
11	62.44	37.4661	4.7904	48	10.02	24. Per Tore Hanstvedt	-Production	-	U	
12	62.29	37.3749	4.7788	54	11.30	26. Kjetil Orre	-Production	-	U	happygiant
13	60.73	36.4375	4.6589	56	12.02	6. Stig Gøran Olsen	-Production	-	U	
14	60.28	36.1667	4.6243	48	10.38	36. Ove Sivertsen	-Production	-	U	
15	60.25	36.1506	4.6222	52	11.25	14. Gunnar Laurhammer	+Open	-	U	gunnien
16	59.96	35.9742	4.5997	54	11.74	32. Ola Sørland	-Classic	-	U	
17	59.20	35.5180	4.5413	50	11.01	9. Hans Martin Ese	-Production Optics	-	U	hansa
18	57.88	34.7294	4.4405	50	11.26	3. Ole-Edvard Hagen	-Open	-	U	
19	54.97	32.9803	4.2169	56	13.28	30. Torstein Hegge Skrindsrud	-Production	-	U	
20	52.24	31.3412	4.0073	44	10.98	17. Per Morten Kannelønning	-Standard	S	U	malt
21	52.02	31.2148	3.9911	54	13.53	7. Håvard Brurok	-Production	-	U	
22	45.96	27.5778	3.5261	50	14.18	2. Lasse Brunborg	-Production	-	U	badger
23	45.25	27.1492	3.4713	52	14.98	4. Rune Toft	-Production	-	U	runtof
24	39.86	23.9176	3.0581	60	19.62	28. Frode Lyngbø	-Production	-	U	camouflage
25	31.79	19.0757	2.4390	52	21.32	34. Stig Yngve Røkenes	-Standard	S	U	
26	29.38	17.6267	2.2538	27	11.98	19. Jørgen Nerland	-Production Optics Light	-	U	ruztishooter
27	26.47	15.8803	2.0305	48	23.64	25. Per Kristian Grimeland	-Production Optics	S	U	
28	22.14	13.2830	1.6984	25	14.72	16. John Arvid Kleppe	-Revolver	-	U	

Stage: 2. Stål med stil

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	55.0000	7.3973	54	7.30	33. Arne Monsen	+Open	S	U	bergenbom
2	99.37	54.6553	7.3509	53	7.21	5. Øystein Paulsen	-Pistol Caliber Carbine	-	U	
3	92.36	50.7994	6.8323	55	8.05	10. Simon Ravn	-Production	-	U	raven
4	89.76	49.3664	6.6396	49	7.38	26. Kjetil Orre	-Production	-	U	happygiant
5	83.39	45.8635	6.1684	52	8.43	13. Torbjørn Sæbø	+Open	-	U	toold
6	82.45	45.3469	6.0990	53	8.69	14. Gunnar Laurhammer	+Open	-	U	gunnien

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
7	80.44	44.2424	5.9504	36	6.05	20. Tore Varlid	-Production	-	U	gungne
8	78.05	42.9265	5.7734	53	9.18	21. Per Sørstrønen	-Standard	-	U	perpistol
9	77.90	42.8468	5.7627	51	8.85	1. Carl-Magnus Nilsen	-Production Optics	-	U	cmn
10	77.41	42.5769	5.7264	54	9.43	39. Christoffer Bjelland	+Standard	-	B	cbjelland
11	71.97	39.5819	5.3236	51	9.58	19. Jørgen Nerland	-Production Optics Light	-	U	ruztishooter
12	65.46	36.0004	4.8419	49	10.12	24. Per Tore Hanstvedt	-Production	-	U	
13	65.05	35.7774	4.8119	55	11.43	4. Rune Toft	-Production	-	U	runtof
14	60.37	33.2044	4.4658	51	11.42	9. Hans Martin Ese	-Production Optics	-	U	hansa
15	59.36	32.6483	4.3911	53	12.07	6. Stig Gøran Olsen	-Production	-	U	
16	53.08	29.1958	3.9267	30	7.64	36. Ove Sivertsen	-Production	-	U	
17	52.71	28.9904	3.8991	51	13.08	7. Håvard Brurok	-Production	-	U	
18	50.29	27.6582	3.7199	34	9.14	35. Warren Tolentino	-Standard	-	U	bugz
19	49.22	27.0698	3.6408	45	12.36	27. Yngve Rørstadbotten-Hæve	-Production	-	U	yhaeve
20	48.44	26.6440	3.5835	53	14.79	16. John Arvid Kleppe	-Revolver	-	U	
21	44.84	24.6615	3.3169	47	14.17	2. Lasse Brunborg	-Production	-	U	badger
22	39.70	21.8344	2.9366	38	12.94	32. Ola Sørland	-Classic	-	U	
23	35.97	19.7840	2.6609	55	20.67	28. Frode Lyngbø	-Production	-	U	camouflage
24	33.55	18.4534	2.4819	24	9.67	17. Per Morten Kannelønning	-Standard	S	U	malt
25	33.18	18.2485	2.4543	43	17.52	25. Per Kristian Grimeland	-Production Optics	S	U	
26	32.01	17.6030	2.3675	21	8.87	3. Ole-Edvard Hagen	-Open	-	U	
27	22.93	12.6096	1.6959	28	16.51	34. Stig Yngve Røkenes	-Standard	S	U	
28	20.13	11.0698	1.4888	24	16.12	30. Torstein Hegge Skrindsrud	-Production	-	U	

Stage: 3. Rett i myra

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	110.0000	6.5176	102	15.65	33. Arne Monsen	+Open	S	U	bergenbom
2	93.51	102.8601	6.0945	98	16.08	20. Tore Varlid	-Production	-	U	gungne
3	86.60	95.2550	5.6439	110	19.49	10. Simon Ravn	-Production	-	U	raven
4	79.01	86.9076	5.1493	100	19.42	5. Øystein Paulsen	-Pistol Caliber Carbine	-	U	
5	77.47	85.2199	5.0493	87	17.23	1. Carl-Magnus Nilsen	-Production Optics	-	U	cmn
6	76.57	84.2237	4.9903	103	20.64	13. Torbjørn Sæbø	+Open	-	U	toold
7	76.56	84.2118	4.9896	96	19.24	26. Kjetil Orre	-Production	-	U	happygiant
8	75.13	82.6391	4.8964	78	15.93	39. Christoffer Bjelland	+Standard	-	B	cbjelland
9	73.96	81.3589	4.8206	90	18.67	3. Ole-Edvard Hagen	-Open	-	U	
10	71.01	78.1105	4.6281	84	18.15	14. Gunnar Laurhammer	+Open	-	U	gunnien
11	69.97	76.9717	4.5606	82	17.98	24. Per Tore Hanstvedt	-Production	-	U	
12	69.89	76.8805	4.5552	106	23.27	30. Torstein Hegge Skrindsrud	-Production	-	U	
13	69.33	76.2635	4.5187	92	20.36	21. Per Sørstrønen	-Standard	-	U	perpistol
14	66.80	73.4822	4.3539	94	21.59	32. Ola Sørland	-Classic	-	U	
15	66.36	72.9923	4.3248	90	20.81	35. Warren Tolentino	-Standard	-	U	bugz

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
16	63.70	70.0688	4.1516	92	22.16	27. Yngve Rørstadbotten-Hæve	-Production	-	U	yhaeve
17	63.19	69.5082	4.1184	96	23.31	17. Per Morten Kannelønning	-Standard	S	U	malt
18	60.09	66.0957	3.9162	86	21.96	36. Ove Sivertsen	-Production	-	U	
19	59.58	65.5435	3.8835	104	26.78	9. Hans Martin Ese	-Production Optics	-	U	hansa
20	59.38	65.3235	3.8705	98	25.32	6. Stig Gøran Olsen	-Production	-	U	
21	57.51	63.2588	3.7481	100	26.68	4. Rune Toft	-Production	-	U	runtof
22	56.09	61.6997	3.6558	96	26.26	7. Håvard Brurok	-Production	-	U	
23	47.42	52.1585	3.0904	81	26.21	19. Jørgen Nerland	-Production Optics Light	-	U	ruztishooter
24	39.90	43.8860	2.6003	94	36.15	2. Lasse Brunborg	-Production	-	U	badger
25	35.84	39.4288	2.3362	82	35.10	25. Per Kristian Grimeland	-Production Optics	S	U	
26	35.42	38.9643	2.3087	92	39.85	34. Stig Yngve Røkenes	-Standard	S	U	
27	34.88	38.3715	2.2735	64	28.15	16. John Arvid Kleppe	-Revolver	-	U	
28	33.85	37.2346	2.2062	110	49.86	28. Frode Lyngbø	-Production	-	U	camouflage

Stage: 4. Bakom huset

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	70.0000	6.5279	69	10.57	39. Christoffer Bjelland	+Standard	-	B	cbjelland
2	85.24	59.6680	5.5644	70	12.58	10. Simon Ravn	-Production	-	U	raven
3	79.68	55.7750	5.2013	62	11.92	3. Ole-Edvard Hagen	-Open	-	U	
4	77.95	54.5667	5.0887	66	12.97	1. Carl-Magnus Nilsen	-Production Optics	-	U	cmn
5	75.55	52.8865	4.9320	58	11.76	20. Tore Varlid	-Production	-	U	gungne
6	74.67	52.2718	4.8747	70	14.36	21. Per Sørstrønen	-Standard	-	U	perpistol
7	72.08	50.4526	4.7050	63	13.39	14. Gunnar Laurhammer	+Open	-	U	gunnien
8	66.78	46.7476	4.3595	65	14.91	13. Torbjørn Sæbø	+Open	-	U	toold
9	64.84	45.3892	4.2328	64	15.12	36. Ove Sivertsen	-Production	-	U	
10	63.37	44.3585	4.1367	69	16.68	33. Arne Monsen	+Open	S	U	bergenbom
11	61.47	43.0316	4.0129	62	15.45	27. Yngve Rørstadbotten-Hæve	-Production	-	U	yhaeve
12	60.24	42.1658	3.9322	58	14.75	24. Per Tore Hanstvedt	-Production	-	U	
13	57.81	40.4649	3.7736	68	18.02	26. Kjetil Orre	-Production	-	U	happygiant
14	56.38	39.4635	3.6802	58	15.76	5. Øystein Paulsen	-Pistol Caliber Carbine	-	U	
15	56.25	39.3724	3.6717	68	18.52	9. Hans Martin Ese	-Production Optics	-	U	hansa
16	55.24	38.6670	3.6059	56	15.53	35. Warren Tolentino	-Standard	-	U	bugz
17	55.00	38.4993	3.5903	68	18.94	6. Stig Gøran Olsen	-Production	-	U	
18	53.03	37.1187	3.4615	54	15.60	19. Jørgen Nerland	-Production Optics Light	-	U	ruztishooter
19	52.14	36.4998	3.4038	66	19.39	32. Ola Sørland	-Classic	-	U	
20	51.67	36.1718	3.3732	62	18.38	7. Håvard Brurok	-Production	-	U	
21	49.42	34.5909	3.2258	53	16.43	30. Torstein Hegge Skrindsrud	-Production	-	U	
22	47.96	33.5717	3.1308	68	21.72	4. Rune Toft	-Production	-	U	runtof
23	38.73	27.1130	2.5284	60	23.73	17. Per Morten Kannelønning	-Standard	S	U	malt
24	31.43	21.9997	2.0516	66	32.17	2. Lasse Brunborg	-Production	-	U	badger

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
25	29.99	20.9906	1.9575	70	35.76	28. Frode Lyngbø	-Production	-	U	camouflage
26	29.53	20.6712	1.9277	64	33.20	25. Per Kristian Grimeland	-Production Optics	S	U	
27	25.27	17.6913	1.6498	62	37.58	16. John Arvid Kleppe	-Revolver	-	U	
28	15.32	10.7270	1.0004	28	27.99	34. Stig Yngve Røkenes	-Standard	S	U	

Stage: 5. Helt til endes

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	150.0000	7.3171	141	19.27	39. Christoffer Bjelland	+Standard	-	B	cbjelland
2	83.15	124.7301	6.0844	124	20.38	20. Tore Varlid	-Production	-	U	gungne
3	78.87	118.3010	5.7708	143	24.78	33. Arne Monsen	+Open	S	U	bergenbom
4	69.29	103.9290	5.0697	120	23.67	21. Per Sørstrønen	-Standard	-	U	perpistol
5	65.67	98.5107	4.8054	121	25.18	14. Gunnar Laurhammer	+Open	-	U	gunnien
6	62.41	93.6199	4.5668	136	29.78	26. Kjetil Orre	-Production	-	U	happygiant
7	61.37	92.0576	4.4906	134	29.84	27. Yngve Rørstadbotten-Hæve	-Production	-	U	yhaeve
8	59.69	89.5386	4.3677	124	28.39	36. Ove Sivertsen	-Production	-	U	
9	59.25	88.8776	4.3355	107	24.68	1. Carl-Magnus Nilsen	-Production Optics	-	U	cmn
10	58.97	88.4574	4.3150	120	27.81	3. Ole-Edvard Hagen	-Open	-	U	
11	58.96	88.4461	4.3144	118	27.35	32. Ola Sørland	-Classic	-	U	
12	57.46	86.1862	4.2042	140	33.30	9. Hans Martin Ese	-Production Optics	-	U	hansa
13	56.78	85.1736	4.1548	146	35.14	6. Stig Gøran Olsen	-Production	-	U	
14	55.41	83.1161	4.0544	140	34.53	10. Simon Ravn	-Production	-	U	raven
15	55.29	82.9395	4.0458	113	27.93	35. Warren Tolentino	-Standard	-	U	bugz
16	54.11	81.1682	3.9594	121	30.56	5. Øystein Paulsen	-Pistol Caliber Carbine	-	U	
17	53.07	79.6116	3.8835	144	37.08	13. Torbjørn Sæbø	+Open	-	U	toold
18	51.82	77.7310	3.7918	126	33.23	30. Torstein Hegge Skrindsrud	-Production	-	U	
19	51.77	77.6515	3.7879	140	36.96	4. Rune Toft	-Production	-	U	runtof
20	48.20	72.3016	3.5269	116	32.89	19. Jørgen Nerland	-Production Optics Light	-	U	ruztishooter
21	44.92	67.3798	3.2868	106	32.25	24. Per Tore Hanstvedt	-Production	-	U	
22	42.81	64.2180	3.1326	142	45.33	2. Lasse Brunborg	-Production	-	U	badger
23	30.09	45.1376	2.2018	84	38.15	7. Håvard Brurø	-Production	-	U	
24	25.87	38.8124	1.8933	132	69.72	34. Stig Yngve Røkenes	-Standard	S	U	
25	25.85	38.7817	1.8918	150	79.29	28. Frode Lyngbø	-Production	-	U	camouflage
26	19.59	29.3823	1.4333	100	69.77	25. Per Kristian Grimeland	-Production Optics	S	U	
27	17.97	26.9553	1.3149	58	44.11	16. John Arvid Kleppe	-Revolver	-	U	
28	16.52	24.7855	1.2090	124	102.56	17. Per Morten Kannelønning	-Standard	S	U	malt

Stage: 6. Trekantsambandet

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	60.0000	6.7045	59	8.80	33. Arne Monsen	+Open	S	U	bergenbom
2	88.78	53.2688	5.9524	50	8.40	39. Christoffer Bjelland	+Standard	-	B	cbjelland

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
3	84.73	50.8375	5.6807	58	10.21	10. Simon Ravn	-Production	-	U	raven
4	78.18	46.9109	5.2419	52	9.92	26. Kjetil Orre	-Production	-	U	happygiant
5	74.37	44.6218	4.9861	54	10.83	20. Tore Varlid	-Production	-	U	gungne
6	71.70	43.0174	4.8069	56	11.65	21. Per Sørstrønen	-Standard	-	U	perpistol
7	71.66	42.9989	4.8048	48	9.99	1. Carl-Magnus Nilsen	-Production Optics	-	U	cmn
8	71.27	42.7605	4.7782	56	11.72	13. Torbjørn Sæbø	+Open	-	U	toold
9	69.79	41.8722	4.6789	51	10.90	14. Gunnar Laurhammer	+Open	-	U	gunnien
10	68.94	41.3650	4.6222	52	11.25	36. Ove Sivertsen	-Production	-	U	
11	67.62	40.5716	4.5336	52	11.47	32. Ola Sørland	-Classic	-	U	
12	67.15	40.2906	4.5022	52	11.55	5. Øystein Paulsen	-Pistol Caliber Carbine	-	U	
13	66.24	39.7413	4.4408	54	12.16	9. Hans Martin Ese	-Production Optics	-	U	hansa
14	65.44	39.2650	4.3876	48	10.94	3. Ole-Edvard Hagen	-Open	-	U	
15	59.97	35.9832	4.0208	54	13.43	6. Stig Gøran Olsen	-Production	-	U	
16	59.02	35.4130	3.9571	48	12.13	19. Jørgen Nerland	-Production Optics Light	-	U	ruztishooter
17	58.49	35.0947	3.9216	56	14.28	7. Håvard Brurok	-Production	-	U	
18	57.87	34.7203	3.8797	40	10.31	24. Per Tore Hanstvedt	-Production	-	U	
19	56.42	33.8537	3.7829	46	12.16	30. Torstein Hegge Skrindsrud	-Production	-	U	
20	49.30	29.5777	3.3051	39	11.80	27. Yngve Rørstadboten-Hæve	-Production	-	U	yhaeve
21	48.90	29.3415	3.2787	44	13.42	17. Per Morten Kannelønning	-Standard	S	U	malt
22	47.96	28.7777	3.2157	41	12.75	4. Rune Toft	-Production	-	U	runtof
23	43.28	25.9709	2.9021	48	16.54	2. Lasse Brunborg	-Production	-	U	badger
24	42.65	25.5926	2.8598	31	10.84	35. Warren Tolentino	-Standard	-	U	bugz
25	27.42	16.4492	1.8381	42	22.85	34. Stig Yngve Røkenes	-Standard	S	U	
26	25.15	15.0923	1.6864	27	16.01	16. John Arvid Kleppe	-Revolver	-	U	
27	22.49	13.4946	1.5079	60	39.79	28. Frode Lyngbø	-Production	-	U	camouflage
28	11.40	6.8405	0.7644	23	30.09	25. Per Kristian Grimeland	-Production Optics	S	U	

Stage: 7. Dekkoperasjonen

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	6.5772	49	7.45	39. Christoffer Bjelland	+Standard	-	B	cbjelland
2	89.44	44.7179	5.8824	47	7.99	33. Arne Monsen	+Open	S	U	bergenbom
3	84.66	42.3276	5.5679	50	8.98	21. Per Sørstrønen	-Standard	-	U	perpistol
4	84.15	42.0742	5.5346	44	7.95	14. Gunnar Laurhammer	+Open	-	U	gunnien
5	82.63	41.3154	5.4348	40	7.36	20. Tore Varlid	-Production	-	U	gungne
6	79.85	39.9267	5.2521	50	9.52	10. Simon Ravn	-Production	-	U	raven
7	72.85	36.4264	4.7917	46	9.60	36. Ove Sivertsen	-Production	-	U	
8	71.47	35.7361	4.7009	44	9.36	32. Ola Sørland	-Classic	-	U	
9	71.46	35.7323	4.7004	40	8.51	3. Ole-Edvard Hagen	-Open	-	U	
10	64.05	32.0232	4.2125	46	10.92	4. Rune Toft	-Production	-	U	runtof
11	62.77	31.3846	4.1284	45	10.90	13. Torbjørn Sæbø	+Open	-	U	toold

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
12	60.49	30.2432	3.9783	44	11.06	6. Stig Gøran Olsen	-Production	-	U	
13	57.48	28.7386	3.7804	42	11.11	17. Per Morten Kannelønning	-Standard	S	U	malt
14	56.48	28.2383	3.7146	38	10.23	19. Jørgen Nerland	-Production Optics Light-	-	U	ruztishooter
15	55.02	27.5121	3.6190	38	10.50	27. Yngve Rørstadboten-Hæve	-Production	-	U	yhaeve
16	53.88	26.9410	3.5439	46	12.98	5. Øystein Paulsen	-Pistol Caliber Carbine	-	U	
17	51.86	25.9294	3.4109	44	12.90	30. Torstein Hegge Skrindsrud	-Production	-	U	
18	51.35	25.6729	3.3771	36	10.66	35. Warren Tolentino	-Standard	-	U	bugz
19	50.28	25.1390	3.3069	25	7.56	1. Carl-Magnus Nilsen	-Production Optics	-	U	cmn
20	49.14	24.5723	3.2323	32	9.90	24. Per Tore Hanstvedt	-Production	-	U	
21	39.51	19.7572	2.5989	44	16.93	2. Lasse Brunborg	-Production	-	U	badger
22	38.34	19.1704	2.5217	29	11.50	26. Kjetil Orre	-Production	-	U	happygiant
23	37.20	18.6021	2.4470	30	12.26	7. Håvard Brurok	-Production	-	U	
24	35.69	17.8452	2.3474	50	21.30	28. Frode Lyngbø	-Production	-	U	camouflage
25	33.58	16.7924	2.2089	48	21.73	34. Stig Yngve Røkenes	-Standard	S	U	
26	33.25	16.6247	2.1869	44	20.12	16. John Arvid Kleppe	-Revolver	-	U	
27	32.50	16.2514	2.1378	27	12.63	9. Hans Martin Ese	-Production Optics	-	U	hansa
28	24.88	12.4420	1.6367	30	18.33	25. Per Kristian Grimeland	-Production Optics	S	U	