UNITED STATES GEOLOGICAL SURVEY
OPEN FILE REPORT 78-120 C
SHEET 3 OF 6

INYO ELLERSIECK – ANALYTICAL RESULTS FOR STREAM-SEDIMENT GEOCHEMICAL SAMPLES AMBLER RIVER QUADRANGLE, ALASKA

1978

sample	LATITUDE	LONGITUD	map	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-B	S-BA	S-BE	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	AA-AU	AA-CU	AA-PB	AA-ZN
76EK378	67 44 27	156 25 27	368	15.00	2.00	10.00	.700	1,500	N	N	100	500	2.0	50	100	100	50	N	<20	100	100	20	N	200	300	N	50	<200	200	N	30	40	85
76EK379	67 44 26	156 25 32	369	10.00	2.00	10.00	.500	1,500	N	N	100	1,500	2.0	20	70	30	70	N	<20	70	30	15	N	200	200	N	50	<200	300	N	20	30	70
76EK390	67 42 38	156 23 44	370	5.00	1.50	15.00	.200	1,000	N	N	100	1,000	2.0	20	50	30	50	N	<20	30	50	15	N	500	150	N	30	<200	30	N	30	30	55
76EK393	67 42 11	156 22 59	371	5.00	2.00	15.00	.200	700	N	N	20	200	<1.0	10	70	30	50	N	<20	50	20	5	N	200	150	N	20	<200	100	N	15	35	30
76EK383	67 40 58	156 23 41	372	1.00	3.00	>20.00	.100	700	N	N	<10	50	N	<5	20	5	30	N	N	<5	10	<5	N	500	20	N	<10	N	10	N	10	40	10
76EK385	67 40 1	156 26 26	373	1.00	3.00	20.00	.100	500	N	N	<10	50	N	<5	20	<5	<20	N	N	<5	<10	N	N	500	10	N	N	N	10	N	10	40	5
76EK386	67 39 20	156 27 28	374	.50	2.00	20.00	.100	200	N	N	<10	20	N	<5	10	<5	<20	N	N	<5	<10	N	N	500	10	N	N	N	10	N	10	45	5
76EK387	67 39 6	156 27 19	375	1.50	3.00	20.00	.070	500	N	N	<10	20	N	<5	20	5	<20	N	N	<5	<10	N	N	500	10	N	N	<10	10	N	10	40	5
76EK389	67 38 59	156 25 47	376	7.00	1.00	1.00	.300	100	N	N	100	500	3.0	30	70	30	50	N	<20	50	30	15	N	100	150	N	30	300	30	N	30	20	75
76EK384	67 40 26	156 22 45	377	10.00	1.00	1.50	.500	700	N	N	100	500	2.0	30	150	50	50	N	<20	70	30	20	N	100	150	N	70	200	200	N	30	15	50
76EK382	67 42 32	156 22 48	378	2.00	2.00	>20.00	.100	700	N	N	20	300	N	10	50	20	30	N	N	20	20	5	N	500	20	N	20	N	30	N	15	30	15
76EK381	67 42 34	156 22 46	379	2.00	2.00	>20.00	.100	700	N	N	20	100	N	10	50	5	30	N	N	20	10	5	N	500	30	N	30	N	20	N	10	35	15
76EK380	67 44 12	156 21 5	380	7.00	1.50	10.00	.300	1,000	N	N	100	500	2.0	30	100	30	70	N	<20	70	30	15	N	100	150	N	50	N	200	N	20	25	70
76EK449	67 43 27	156 15 56	381	5.00	2.00	15.00	.300	700	N	N	100	500	3.0	30	70	10	100	N	<20	30	30	20	N	200	100	N	50	N	200	N	20	35	70
76EK450	67 42 33	156 14 11	382	5.00	1.50	2.00	.500	1,000	N	N	100	500	3.0	30	70	50	100	N	<20	30	50	20	N	<100	100	N	50	N	500	N	30	30	60
76EK698	67 41 0	156 13 19	383	10.00	1.50	15.00	.500	1,000	N	N	100	500	1.5	30	100	30	70	N	<20	70	20	15	N	200	150	N	50	<200	500	N	20	35	60
76EK490	67 39 7	156 16 18	385	5.00	.70	.50	.500	700	N	N	150	500	3.0	30	70	20	50	N	<20	70	20	15	N	<100	150	N	50	<200	500	N	20	10	50
76EK491	67 37.46	156 16 47	386	10.00	1.50	.50	.500	700	N	N	100	500	3.0	30	100	70	70	N	<20	70	50	20	N	<100	150	N	50	200	500	N	30	15	80
76EK492	67 36 39	156 17 47	387	5.00	1.50	15.00	.200	700	N	N	50	300	2.0	20	70	30	50	N	<20	50	20	10	N	200	100	N	50	N	200	N	40	25	35
76EK497	67 35 30	156 18 33	388	.20	1.50	20.00	.050	700	N	N	N	50	<1.0	<5	N	<5	<20	N	N	N	<10	N	N	500	10	N	N	N	10	N	10	45	5
76EK498	67 35 2	156 21 38	389	.50	2.00	20.00	.100	700	N	N	<10	100	<1.0	<5	20	5	<20	N	N	10	<10	N	N	500	30	N	N	N	20	N	10	40	10
76EK499	67 33 37	156 18 11	390	.20	1.00	10.00	.030	200	N	N	N	20	<1.0	<5	N	<5	<20	N	N	N	<10	N	N	500	10	N	N	<10	N	N	5	45	45
76TR238	67 43 11	156 41 12	391	10.00	5.00	5.00	.300	700	N	N	150	1,000	<1.0	30	200	70	30	N	<20	70	50	30	N	300	200	N	30	<200	150	N	50	30	90
76EK501	67 32 44	156 18 35	392	3.00	2.00	20.00	.150	700	N	N	50	200	<1.0	20	50	30	50	N	<20	30	20	10	N	500	100	N	50	N	70	N	20	35	25
76EK500	67 32 41	156 18 29	393	7.00	2.00	20.00	.300	1,000	N	N	100	500	2.0	20	70	70	70	N	<20	50	50	20	N	100	150	N	50	N	70	N	35	25	50
76EK503	67 33 2	156 21 42	394	.20	1.00	20.00	.030	300	N	N	N	<20	N	<5	N	<5	<20	N	N	N	<10	N	N	500	10	N	N	N	10	N	10	50	<5
76EK502	67 32 59	156 21 44	395	3.00	2.00	20.00	.150	700	N	N	100	200	<1.0	15	50	30	50	N	<20	30	20	15	N	500	100	N	20	N	50	N	20	30	25
76EK504	67 32 20	156 19 23	396	1.00	3.00	20.00	.070	200	N	N	<10	<20	<1.0	<5	<10	<5	<20	N	N	<5	<10	N	N	500	10	N	N	N	20	N	5	40	5
76EK507	67 30 26	156 18 17	397	3.00	3.00	20.00	.150	1,500	N	N	20	200	<1.0	20	50	10	<20	N	N	<5	30	10	N	500	100	N	20	N	200	N	15	30	30
76EK509	67 28 51	156 19 54	398	5.00	3.00	10.00	.300	2,000	N	N	100	700	3.0	30	50	50	70	N	<20	70	50	15	N	100	100	N	30	N	150	N	30	25	50
76EK510	67 27 50	156 19 40	399	7.00	2.00	1.00	.500	1,000	N	N	100	700	3.0	30	150	70	50	N	<20	50	50	20	N	100	150	N	30	200	200	N	45	35	110
76EK511	67 27 7	156 18 29	400	7.00	2.00	2.00	.300	2,000	N	N	100	700	3.0	30	100	50	50	N	<20	70	50	15	N	<100	150	N	50	<200	100	N	30	25	140
76EK512	67 27 11	156 17 59	401	7.00	2.00	1.50	.300	1,000	N	N	100	700	3.0	30	70	70	70	N	<20	70	50	15	N	<100	150	N	50	200	150	N	35	25	140
76EK513	67 26 29	156 15 34	402	5.00	2.00	2.00	.200	700	N	N	100	500	2.0	20	70	30	50	N	<20	70	20	15	N	<100	150	N	30	300	150	N	30	25	120
76EK514	67 26 31	156 15 50	403	7.00	1.50	.20	.300	1,000	N	N	100	700	3.0	30	150	70	200	<5	<20	70	50	20	N	<100	200	N	50	300	200	N	45	30	150
76EK508	67 30 26	156 18 3	404	7.00	2.00	2.00	.200	1,500	N	N	100	700	3.0	30	50	100	70	N	<20	20	50	15	N	500	100	N	30	N	150	N	50	25	60
76TR178A	67 27 50	156 18 56	405	15.00	2.00	.30	.500	1,500	N	N	200	700	2.0	50	100	150	70	<5	<20	70	50	20	20	N	300	N	50	<200	500	N	45	20	75
76TR178B	67 27 47	156 18 38	405	10.00	1.50	.30	.300	1,500	N	N	200	500	2.0	30	50	150	50	N	<20	50	30	15	30	N	200	N	50	<200	200	N	65	20	90
76EK520	67 28 54	156 14 49	406	10.00	2.00	1.00	.500	1,500	N	N	150	700	2.0	30	70	70	100	N	<20	70	30	20	N	<100	150	N	50	N	150	N	60	20	70
76EK519	67 28 11	156 13 35	407	7.00	2.00	1.00	.300	1,000	N	N	100	700	2.0	30	70	70	100	N	<20	70	30	15	N	<100	150	N	50	N	150	N	40	20	60
76EK516	67 27 5	156 11 23	408	7.00	1.00	.20	.300	700	N	N	100	700	3.0	30	100	50	100	N	<20	70	30	15	N	<100	150	N	30	200	200	N	40	25	140
76EK517	67 27 14	156 10 59	409	7.00	2.00	1.00	.300	2,000	N	N	100	700	2.0	30	70	70	100	N	<20	50	20	15	N	<100	100	N	30	N	200	N	50	20	50
76EK518	67 28 43	156 10 0	410	7.00	2.00	1.00	.300	1,500	N	N	100	700	2.0	30	70	100	100	N	<20	70	30	15	N	<100	150	N	50	N	150	N	45	20	60
76EK521	67 29 25	156 14 57	411	10.00	2.00	1.00	.500	1,000	N	N	100	700	2.0	30	100	70	100	N	<20	70	30	20	N	<100	150	N	50	N	150	N	65	20	45
76EK522	67 30 10	156 16 26	412	7.00	2.00	15.00	.300	1,000	N	N	100	500	2.0	30	50	100	100	N	<20	50	20	20	N	100	150	N	50	N	150	N	40	25	40
76EK523	67 31 0	156 18 24	413	.20	2.00	20.00	.050	500	N	N	N	<20	<1.0	<5	N	<5	<20	N	<20	<5	<10	N	N	300	10	N	<10	N	<10	N	5	40	10
76EK506	67 32 3	156 18 46	414	.50	2.00	20.00	.050	200	N	N	N	<20	<1.0	<5	N	<5	<20	N	N	<5	<10	N	N	500	10	N	N	N	<10	N	5	45	<5
76TR180	67 31 45	156 10 0	415	7.00	1.50	5.00	.300	1,500	N	N	100	1,000	2.0	20	70	50	100	N	<20	50	30	15	N	100	200	N	30	<200	200	N	40	25	90
76EK524	67 33 20	156 15 55	416	15.00	2.00	5.00	.700	2,000	N	N	100	700	1.0	30	50	150	70	N	<20	100	20	20	N	200	300	N	50	N	500	N	40	20	80
76EK526	67 32 48	156 13 29	417	15.00	2.00	7.00	.700	1,500	N	N	100	500	2.0	30	100	50	70	N	<20	70	15	20	N	<100	200	N	70	N	500	N	25	25	40
76EK530	67 31 39	156 14 26	418	15.00	2.00	.70	.700	2,000	N	N	100	500	2.0	30	100	100	100	N	<20	70	20	20	N	N	200	N	50	<200	300	N	50	25	55
76EK539	67 31 35	156 14 44	419	2.00	1.50	15.00	.200	1,000	N	N	50	200	1.0	10	50	20	50	N	<20	20	10	5	N	200	100	N	15	<200	100	N	15	35	25
66RR10	67 33 00	156 12 00	420	5.00	1.50	3.00	.700	700	N	N	50	300	1.5	30	150	150	70	N	15	100	15	20	30	100	150	N	50	N	200				
76EK528	67 32 27	156 11 18	421	20.00	2.00	5.00	.500	2,000	N	N	200	700	2.0	30	100	150	70	N	<20	100	20	20	N	<100	200	N	50	<200	1,000	N	45	25	65
76EK533	67 32 9	156 10 41	422	20.00	3.00	1.50	1.000	3,000	N	N	100	700	2.0	150	150	200	100	N	<20	300	30	30	N	N	300	N	50	<200	700	N	85	25	60
76EK535	67 31 23	156 9 48	423	20.00	3.00	2.00	.700	2,000	N	N	100	700	2.0	70	200	150	100	N	<20	300	20	30	N	<100	300	N	50	N	500	N	75	25	60
76EK536	67 30 2	156 7 59	424	15.00	2.00	2.00	.700	2,000	N	N	150	700	2.0	50	100	100	100	N	<20	100	20	20	N	<100	300	N	50	200	500	N	70	25	60
76EK537	67 29 41	156 6 56	425	20.00	3.00	2.00	.700	3,000	N	N	150	1,000	2.0	50	100	150	100	N	<20	100	30	20	N	<100	300	N	50	<200	300	N	45	25	65
76EK538	67 29 44	156 6 50	426	3.00	1.00	1.00	.500	1,500	N	N	150	300	2.0	20	20	20	100	N	<20	20	20	10	N	N	100	N	50	<200	700	N	20	20	30
76EK534	67 31 44	156 9 56	427	20.00	2.00	5.00	.700	1,500	N	N	100	1,000	2.0	50	100	100	100	<5	<20	300	20	20	N	200	300	N	50	<200	500	N	55	25	110
76EK527	67 32 30	156 11 23	428	15.00	1.50	5.00	.500	1,500	N	N	100	1,500	2.0	30	100	150	70	<5	<20	100	20	15	N	200	300	N	50	500	300	N	55	20	180
76EK532	67 32 48	156 9 50	429	15.00	2.00	3.00	.500	1,500	N	N	100	1,500	2.0	20	100	150	100	N	<20	150	50	20	N	200	500	N	50	300	500	N	50	25	210
76EK531	67 32 30	156 9 51	430	20.00	3.00	3.00	.700	2,000	N	N	200	700	2.0	70	200	200	100	10	<20	150	30	30	N	<100	300	N	50	N	500	N	65	40	95
76EK523	67 33 1	156 13 42	431	20.00	3.00	2.00	1.000	1,500	N	N	150	700	2.0	50	150	150	100	N	<20	100	50	20	N	<100	300	N	70	N	500	N	35	25	55
76TR142B	67 34 24	156 14 44	432	10.00	1.50	5.00	.700	1,000	N	N	70	500	2.0	30	100	50	70	N	<20	70	10	15	N	100	200	N	50	<200	300	N	35	25	40
76EK495	67 34 44	156 10 53	433	10.00	.50	1.00	.300	1,000	N	N	100	500	3.0	30	70	50	50	N	<20	70	30	15	N	100	150	N	50	300	300	N	45	15	45
76TR141E	67 34 23	156 12 11	434	7.00	.70	.70	.700	1,000	N	N	70	500	2.0	30	100	50	70	N	<20	70	10	15	N	100	200	N	50	<200	500	N	40	20	40
76EK493	67 36 30	156 14 53	435	2.00	1.50	20.00	.100	500	N	N	<10	100	<1.0	<5	50	10	<20	N	N	<5	10	5	N	200	30	N	20	N	200	N	10	40	10
76EK494	67 37 56	156 13 27	436	10.00	1.00	.20	.500	1,000	N	N	100	1,000	3.0	30	150	50	70	N	<20	70	50	20	N	100	200	N	50	500	300	N	35	20	60
76EK440	67 40 58	156 7 36	437	10.00	1.00	1.50	.300	1,000	N	N	150	700	3.0	30	100	70	50	N	<20	70	30	20	N	200	150	N	50	300	300	N	40	25	85
76EK441	67 38 44	156 7 59	438	10.00	.70	1.00	.500	1,000	N	N	150	700	3.0	30	100	70	50	N	<20	70	30	20	N	100	150	N	50	200	200	N	45	20	100
76EK442	67 37 1	156 7 14	439	10.00	.70	.50	.300	1,000	N	N	150	700	3.0	30	100	70	50	N	<20	70	30	15	N	100	150	N	50	200	300	N	45	25	85
76EK612	67 35 9	156 6 42	440	10.00	1.00	1.50	1.000	1,500	N	N	100	1,500	1.5	30	100	100	70	N	<20	70	30	30	N	200	300	N	50	300	300	N	40	45	180
76EK443	67 35 20	156 6 42	441	10.00	1.00	1.00	.500	1,500	N	N	150	700	3.0	30	150	70	50	N	<20	70	50	20	N	150	150	N	50	200	300	N	40	30	160
76EK439	67 40 49	156 4 27	442	5.00	1.50	10.00	.300	1,000	N	N	150	500	2.0	20	70	20	50	N	<20	20	50	15	N	500	100	N	50	<200	300	N	15	45	65
76EK437	67 39 51	156 0 41	443	10.00	.70	1.50	.500	1,000	N	N	150	500	3.0	30	100	50	50	N	<20	70	50	20	N	100	150	N	50	200	300	N	35	30	100
76EK438	67 39 51	156 0 32	444	5.00	1.50	15.00	.300	1,000	N	N	150	500	2.0	20	70	20	100	N	<20	20	150	15	N	500	100	N	50	200	200	N	15	50	110
76EK615	67 35 14	156 0 0	445	20.00	1.00	3.00	.200	700	N	N	50	1,000	2.0	20	70	700	50	N	<20	150	<10	15	N	500	200	N	100	1,000	100	N	290	25	450
76EK619	67 31 9	156 2 39	446	10.00	1.50	5.00	.500	700	N	N	100	1,500	2.0	30	70	150	70	10	<20	100	30	20	N	200	300	N	20	500	200	N	80	35	250
76EK618	67 31 5	156 2 43	447	10.00	1.00	2.00	.500	700	N	N	100	2,000	2.0	30	70	100	70	<5	<20	100	20	20	N	100	300	N	50	200	500	N	40	25	130
76EK620	67 30 58	156 3 54	448	>20.00	<.02	<.05	.020	<10	N	300	N	<20	N	N	<10	<5	N	20	<20	N	N	N	N	300	N	N	20	N	10	25	10		
72Z160	67 28 0	156 1 0	449	3.00	2.00	5.00	.300	500	N	N	30	300	1.0	10	20	30	30	N	N	20	15	7	N	N	50	N	20	N	150	--	25	15	60
72Z163	67 26 59	156 2 59	450	5.00	1.50	1.00	.700	1,500	N	N	100	300	1.0	20	50	50	70	N	<20	30	15	15	N	N	70	N	30	N	300	--	35	15	50
72Z162	67 26 59	156 4 59	451	5.00	2.00	.70	.500	2,000	N	N	100	700	1.0	30	50	150	50	N	<20	50	20	15	N	N	70	N	30	N	150	--	60	20	75
72Z161	67 26 59	156 4 59	452	3.00	1.00	.50	.700	1,000	N	N	70	300	1.5	20	20	15	70	N	<20	20	10	10	N	N	70	N	30	N	300	--	25	15	55
72Z167	67 25 59	156 2 59	453	7.00	2.00	.30	.700	2,000	N	N	150	1,000	2.0	30	70	100	70	N	<20	50	30	20	N	N	150	N	50	<220	150	--	65	30	110
72Z168	67 25 59	156 2 59	454	7.00	3.00	1.50	>1.000	3,000	.5	N	70	700	1.0	30	70	100	70	N	<20	50	30	15	N	N	100	N	50	<200	200	--	40	15	60
72Z164	67 25 59	156 0 0	455	7.00	1.50	.50	.700	1,000	N	N	150	300	1.0	20	50	15	70	N	N	30	10	10	N	N	70	N	30	N	200	--	30	15	45
72Z159			456	5.00	1.70	3.00	.300	300	N	N	70	500	1.0	10	50	N	N	30	10	10	N	500	50	N	30	N	200	--	20	15	45		
76EK496	67 34 23	156 15 39	457	10.00	1.50	15.00	.500	700	N	N	100	1,000	3.0	30	100	50	50	N	<20	70	30	20	N	100	150	N	50	N	300	N	50	40	55
66BE23	67 43 00	156 02 00	458	7.00	1.00	.20	.500	500	N	N	50	500	3.5	50	100	150	50	N	15	70	30	30	N	150	150	N	30	N	150				
76EK444	67 43 14	156 3 52	459	5.00	1.50	2.00	.500	700	<.5	N	N	100	500	3.0	30	100	50	50	N	<20	70	70	15	N	100	150	N	50	N	150	N	40	35	95
76EK445	67 44 18	156 6 39	460	5.00	1.50	1.50	.500	1,000	N	N	100	700	3.0	30	100	50	100	N	<20	70	50	20	N	100	150	N	50	<200	150	N	40	25	100
76EK446	67 45 57	156 8 35	461	7.00	1.50	.20	.700	1,000	N	N	100	700	3.0	30	150	70	100	N	<20	70	50	20	N	100	200	N	50	<200	150	N	45	25	120
76EK447	67 49 20	156 13 49	462	7.00	1.50	.30	.500	1,000	N	N	100	500	3.0	30	70	15	200	N	<20	70	30	15	N	100	150	N	30	<200	150	N	20	15	90
76MD183	67 50 44	156 13 50	463	10.00	1.00	.20	.700	1,500	N	N	150	300	3.0	30	70	50	50	N	<20	50	30	15	N	100	150	N	20	200	500	N	40	20	100
76MD184	67 50 11	156 9 33	464	10.00	1.50	5.00	.500	1,000	N	N	100	500	3.0	20	70	50	50	N	<20	50	20	15	N	100	150	N	30	<200	200	N	25	15	75
76MD185	67 50 20	156 9 3	465	10.00	1.50	.50	.700	1,000	N	N	150	500	3.0	20	150	70	150	N	<20	50	20	15	N	100	150	N	50	<200	500	N	25	15	100
76MD187	67 48 42	156 6 11	466	10.00	1.50	.50	.700	1,500	N	N	150	700	3.0	30	150	70	50	N	<20	70	30	20	N	100	150	N	50	200	300	N	40	15	140
76MD188	67 48 45	156 6 3	467	10.00	1.00	.50	.700	1,500	N	N	150	700	3.0	30	150	50	50	N	<20	70	20	15	N	100	150	N	50	<200	500	N	30	15	80
76MD190	67 47 59	156 1 0	468	10.00	.70	.20	1.000	1,000	N	N	150	500	2.0	30	150	50	50	N	<20	100	20	20	N	<100	--	N	50	N	700	N	25	20	75
76MD191	67 48 6	156 0 56	469	10.00	.70	.20	1.000	1,000	N	N	150	500	2.0	30	150	50	50	N	<20	100	20	20	N	<100	--	N	50	N	500	N	30	20	80
76MD189	67 48 52	156 4 29	470	10.00	1.50	.30	.700	1,500	N	N	150	700	3.0	50	150	70	70	N	<20	70	30	20	N	100	150	N	50	<200	300	N	40	20	90
76MD186	67 49 46	156 7 54	471	10.00	1.50	.30	.700	1,500	N	N	150	500	3.0	20	150	70	70	N	<20	70	50	15	N	100	150	N	70	<200	200	N	30	20	95
76MD202	67 53 54	156 6 5	472	10.00	.70	.20	.700	1,000	N	N	150	500	2.0	30	150	50	50	N	<20	70	20	20	N	<100	--	N	50	<200	300	N	25	15	90
76MD205	67 55 5	156 3 20	473	10.00	1.00	.50	.500	1,000	N	N	150	500	2.0	30	100	50	50	N	<20	70	20	20	N	<100	--	N	50	<200	200	N	25	15	90
76MD206	67 55 15	156 4 5	474	10.00	.70	.20	.500	1,000	N	N	150	500	2.0	30	100	50	50	N	<20	70	30	20	N	<100	--	N	50	<200	200	N	35	15	90
76MD204	67 54 32	156 6 42	475	10.00	1.00	.20	.500	1,000	N	N	150	500	2.0	30	100	50	50	N	<20	70	30	20	N	<100	--	N	50	<200	200	N	30	25	130
76MD203	67 54 8	156 7 41	476	10.00	1.00	.20	.700	1,000	N	N	150	500	2.0	30	150	50	50	N	<20	100	30	20	N	<100	--	N	50	<200	500	N	30