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Supplementary Material

Salinity, alkalinity and their combined stress effects on germination and seedling growth attributes in oats (*Avena sativa*)

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Supplementary Table S1. Details of oat plant material used in the present study

S. No.	Accession No.	Institute Identity	Species
1	OL-11 (V)	OL-11	<i>Avena sativa</i>
2	SKO-96 (V)	SKO-96	<i>Avena sativa</i>
3	OS-377 (V)	OS-377	<i>Avena sativa</i>
4	OL-1802 (V)	OL-1802	<i>Avena sativa</i>
5	OS-403 (V)	OS-403	<i>Avena sativa</i>
6	OL-1804 (V)	OL-1804	<i>Avena sativa</i>
7	OL-12 (V)	OL-12	<i>Avena sativa</i>
8	OL-10 (V)	OL-10	<i>Avena sativa</i>
9	RO-11-1 (V)	RO-11-1	<i>Avena sativa</i>
10	JHO-99-2 (V)	JHO-99-2	<i>Avena sativa</i>
11	NDO-2 (V)	NDO-2	<i>Avena sativa</i>
12	JO-1 (V)	JO-1	<i>Avena sativa</i>
13	NDO-1 (V)	NDO-1	<i>Avena sativa</i>
14	RO-19 (V)	RO-19	<i>Avena sativa</i>
15	HJ-8 (V)	HJ-8	<i>Avena sativa</i>
16	PLP-1 (V)	PLP-1	<i>Avena sativa</i>
17	UPO-212 (V)	UPO-212	<i>Avena sativa</i>
18	JHO-2010-1 (V)	JHO-2010-1	<i>Avena sativa</i>
19	JHO-03-93 (V)	JHO-03-93	<i>Avena sativa</i>
20	Sabzar (V)	Sabzar	<i>Avena sativa</i>
21	JHO-822 (V)	JHO-822	<i>Avena sativa</i>
22	HFO-114 (V)	HFO-114	<i>Avena sativa</i>
23	JHO-2012-2 (V)	JHO-2012-2	<i>Avena sativa</i>
24	JHO-2004 (V)	JHO-2004	<i>Avena sativa</i>
25	OS-346 (V)	OS-346	<i>Avena sativa</i>
26	Kent (V)	Kent	<i>Avena sativa</i>
27	JHO-2001-3 (V)	JHO-2001-3	<i>Avena sativa</i>
28	JHO-09-1 (V)	JHO-09-1	<i>Avena sativa</i>
29	SKO-90 (V)	SKO-90	<i>Avena sativa</i>
30	JO-03-91 (V)	JO-03-91	<i>Avena sativa</i>
31	UPO-94 (V)	UPO-94	<i>Avena sativa</i>
32	JHO-851 (V)	JHO-851	<i>Avena sativa</i>
33	JHO-99-1 (V)	JHO-99-1	<i>Avena sativa</i>
34	JHO-2015-1 (V)	JHO-2015-1	<i>Avena sativa</i>
35	OS-6 (V)	OS-6	<i>Avena sativa</i>
36	OL-125 (V)	OL-125	<i>Avena sativa</i>
37	SKO-20 (V)	SKO-20	<i>Avena sativa</i>
38	OL-9 (V)	OL-9	<i>Avena sativa</i>
39	EC-537798 (W)	IG-20-33	<i>Avena abyssinica</i>
40	EC-537796 (W)	IG-20-404	<i>Avena abyssinica</i>
41	EC-537794 (W)	IG-20-407	<i>Avena abyssinica</i>

42	EC-537799 (W)	IG-20-714	<i>Avena abyssinica</i>
43	EC-537795 (W)	IG-20-764	<i>Avena abyssinica</i>
44	NGB-5131 (W)	IG-20-56	<i>Avena byzantina</i>
45	EC-537808 (W)	IG-20-763	<i>Avena brevis</i>
46	EC-537807 (W)	IG-20-754	<i>Avena brevis</i>
47	EC-537803 (W)	IG-20-762	<i>Avena barbata</i>
48	EC-537821 (W)	IG-20-782	<i>Avena macrocana</i>
49	EC-537817 (W)	IG-20-783	<i>Avena fatua</i>
50	IG-20-110-2 (W)	IG-20-796	<i>Avena sativa</i>
51	IG-20-797 (W)	IG-20-797	<i>Avena sterilis</i>
52	HFO-69 (W)	IG-20-798	<i>Avena spp.</i>
53	HFO-305 (W)	IG-20-799	<i>Avena nuda</i>
54	HFO-878 (W)	IG-20-800	<i>Avena sterilis</i>
55	HFO-508 (W)	IG-20-801	<i>Avena sterilis</i>
56	HFO-103 (W)	IG-20-802	<i>Avena orientalis</i>
57	HFO-60 (W)	IG-20-803	<i>Avena byzantina</i>
58	KARAK-26 (W)	IG-20-804	<i>Avena fatua</i>
59	HFO-873 (W)	IG-20-805	<i>Avena murphyi</i>
60	HFO-505 (W)	IG-20-806	<i>Avena strigosa</i>
61	HFO-58 (W)	IG-20-807	<i>Avena barbata</i>
62	HFO-498 (W)	IG-20-808	<i>Avena longiglumis</i>
63	IG-03-457 (W)	IG-20-809	<i>Avena abyssinica</i>
64	IGO-5-2 (W)	IG-20-810	<i>Avena spp.</i>
65	IGO-5-6 (W)	IG-20-811	<i>Avena spp.</i>
66	IGO-5-3 (W)	IG-20-812	<i>Avena spp.</i>
67	IGO-5-4 (W)	IG-20-813	<i>Avena spp.</i>
68	IG-02-124 (W)	IG-20-814	<i>Avena fatua</i>
69	IG-02-212 (W)	IG-20-815	<i>Avena fatua</i>
70	IGO-5-7 (W)	IG-20-816	<i>Avena spp.</i>
71	IGO-5-1 (W)	IG-20-817	<i>Avena spp.</i>
72	EC-425118-1 (W)	IG-20-535	<i>Avena spp.</i>
73	IG-20-894 (W)	IG-20-894	<i>Avena spp.</i>
74	EC-537794 (W)	IG-20-407	<i>Avena abyssinica</i>
75	IC-372421 (G)	IG-20-408	<i>Avena sativa</i>
76	EC-528895 (G)	IG-20-545	<i>Avena sativa</i>
77	EC-196872 (G)	IG-20-512	<i>Avena sativa</i>
78	7/26.. (G)	IG-20-477	<i>Avena sativa</i>
79	EC-537871 (G)	IG-20-575	<i>Avena sativa</i>
80	NGB-2117 (G)	IG-20-619	<i>Avena sativa</i>
81	NGB-6975 (G)	IG-20-653	<i>Avena sativa</i>
82	IC-372435 (G)	IG-20-255	<i>Avena sativa</i>
83	IG-20-R300 (G)	IG-20-1184	<i>Avena sativa</i>
84	IG-20-R322 (G)	IG-20-1200	<i>Avena sativa</i>

85	EC-246121 (G)	IG-20-718	<i>Avena sativa</i>
86	EC-209272 (G)	IG-20-724	<i>Avena sativa</i>
87	EC-179872 (G)	IG-20-263	<i>Avena sativa</i>
88	EC-537883 (G)	IG-20-758	<i>Avena sativa</i>
89	EC-537854 (G)	IG-20-748	<i>Avena sativa</i>
90	IG-02-77 (G)	IG-20-723	<i>Avena sativa</i>
91	EC-528905 (G)	IG-20-48	<i>Avena sativa</i>
92	NGB-2118-1 (G)	IG-20-620	<i>Avena sativa</i>
93	JHO-2002-5 (G)	IG-20-605	<i>Avena sativa</i>
94	IG-20-R114 (G)	IG-20-1008	<i>Avena sativa</i>
95	IG-20-R110 (G)	IG-20-1004	<i>Avena sativa</i>
96	IG-20-R145 (G)	IG-20-1039	<i>Avena sativa</i>
97	IG-20-R131 (G)	IG-20-1025	<i>Avena sativa</i>
98	IG-20-R299 (G)	IG-20-1183	<i>Avena sativa</i>
99	IG-20-R270 (G)	IG-20-1157	<i>Avena sativa</i>
100	IC-372413 (G)	IG-20-347	<i>Avena sativa</i>
101	IG-20-R304 (G)	IG-20-1188	<i>Avena sativa</i>
102	31/12.. (G)	IG-20-449	<i>Avena sativa</i>
103	2/5/6.. (G)	IG-20-425	<i>Avena sativa</i>
104	NGB-8650 (G)	IG-20-678	<i>Avena sativa</i>
105	IC-282934 (G)	IG-20-1280	<i>Avena sativa</i>

*V: variety; W: wild type ; G: germplasm

Supplementary Table S2: Germination and seedling growth attributes of 105 oat genotypes under different stress treatments

Accessions	Final Germination Percentage (%)							Shoot Length (cm)								Root Length (cm)								Seedling Biomass (g)						Seedling Vigour Index					
	At 8 DAS							At 8 DAS								At 8 DAS								At 8 DAS											
	T0	T1	T2	T3	T4	T5	T6	T0	T1	T2	T3	T4	T5	T6	T0	T1	T2	T3	T4	T5	T6	T0	T1	T2	T3	T4	T5	T6	T0	T1	T2	T3	T4	T5	T6
OL-11	16	31	6	11	11	11	16	16	10	2	3	2	10	10	12	5	3	5	3	4	3	1.2	0.8	0.4	0.7	0.6	0.8	0.4	454	466	35	600	56	148	211
SKO-96	21	26	16	16	21	16	16	6	3	2	3	2	4	3	4	3	2	3	1	4	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	200	162	73	88	81	132	80
OS-377	11	16	11	16	2	11	16	3	3	2	3	2	8	3	4	4	3	4	2	4	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	82	116	57	104	8	137	87
OL-1802	21	26	21	36	16	31	21	11	3	3	9	2	9	3	7	6	4	2	1	7	4	0.8	0.8	0.4	0.7	0.6	0.8	0.4	366	240	161	115	46	483	159
OS-403	21	16	21	26	6	6	21	3	10	3	9	2	8	3	3	5	1	6	1	2	1	0.8	0.8	0.4	0.7	0.6	0.8	0.4	141	234	90	393	23	59	84
OL-1804	16	16	11	6	26	16	16	5	9	2	3	9	4	3	7	6	3	3	3	6	6	0.8	0.8	0.4	0.7	0.6	0.8	0.4	186	237	55	387	286	168	140
OL-12	41	66	16	11	6	51	36	8	10	2	3	2	4	7	7	6	2	3	1	4	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	615	1012	75	41	23	419	323
OL-10	31	26	16	16	21	11	16	7	11	9	3	2	9	3	5	5	2	3	1	4	1	0.8	0.8	0.4	0.7	0.6	0.8	0.4	383	394	172	74	77	141	71
RO-11-1	26	16	26	16	16	26	11	9	5	2	3	2	4	3	6	1	0	2	1	5	1	1.2	0.8	0.4	1.1	0.6	0.8	0.4	390	102	71	107	58	231	49
JHO-99-2	65	61	36	36	16	51	21	10	10	9	10	2	11	6	8	7	6	6	2	7	1	1.1	0.8	0.4	1.1	0.6	1.1	0.4	1176	1026	554	78	75	919	135
NDO-2	81	51	36	31	31	81	31	12	11	7	9	5	12	3	8	8	5	6	2	6	2	1.5	1.0	0.4	0.7	0.6	1.1	0.4	1561	964	422	552	202	1417	169
JO-1	56	55	31	11	26	31	11	11	9	5	3	9	9	3	7	5	1	2	4	4	2	1.1	0.8	0.4	0.7	0.6	0.8	0.4	971	748	198	441	330	397	54
NDO-1	92	26	36	36	11	56	21	9	4	2	8	2	10	3	7	3	1	6	2	7	2	1.1	0.8	0.4	1.1	0.6	1.1	0.4	1442	181	125	62	48	922	114
RO-19	86	26	51	26	21	46	16	11	8	8	6	2	10	3	7	5	1	3	2	5	2	1.1	0.8	0.6	0.7	0.6	0.8	0.4	1520	341	480	504	85	689	86
HJ-8	26	51	66	51	56	56	31	9	11	2	6	6	9	9	4	6	2	5	3	5	4	1.2	1.1	0.4	0.7	0.6	1.2	0.8	347	834	311	236	485	775	420
PLP-1	51	41	26	61	26	61	46	7	11	3	10	9	10	3	5	7	2	5	2	5	2	1.1	1.1	0.4	1.0	0.6	0.8	0.4	622	758	109	556	289	888	247
UPO-212	31	26	21	51	46	99	46	3	9	10	9	9	10	3	3	5	4	3	3	5	2	0.8	0.8	1.0	0.7	1.0	0.9	0.4	208	343	286	884	558	1541	261
JHO-2010-1	99	68	67	41	76	81	86	10	12	5	9	11	14	6	7	7	2	7	3	4	1	0.9	1.2	0.4	0.9	1.2	1.1	1.0	1696	1287	450	612	1094	1409	553
JHO-03-93	98	62	76	71	76	81	91	15	3	2	9	7	9	3	9	7	2	6	1	6	2	1.0	0.8	0.4	0.9	0.6	1.1	0.4	2358	636	314	672	670	1162	489
Sabzar	99	38	99	99	56	70	66	11	8	8	12	2	8	3	9	6	6	6	2	6	2	1.1	0.8	0.4	0.9	0.6	1.1	0.4	2029	522	1357	1071	275	946	365
JHO-822	99	51	78	85	67	62	54	10	8	5	11	2	10	7	8	8	2	9	3	6	2	1.1	1.1	0.6	0.8	0.9	1.0	0.9	1764	809	577	1762	369	1009	459
HFO-114	99	51	46	41	86	61	61	6	5	10	3	10	4	11	7	6	6	4	3	5	4	0.8	0.8	0.8	0.7	1.1	0.8	0.4	1313	553	723	1623	1133	582	916
JHO-2012-2	76	26	51	41	99	99	81	10	10	8	9	2	6	9	8	7	5	6	3	3	4	1.2	1.0	0.6	0.7	1.3	1.4	1.1	1375	437	671	302	501	940	1054
JHO-2004	99	99	76	91	87	93	68	13	3	6	8	14	13	8	9	3	1	6	8	8	3	1.0	0.8	0.4	0.7	1.1	1.1	0.4	2194	604	518	619	1963	1946	723
OS-346	99	41	36	76	66	61	36	8	13	2	8	5	8	3	8	8	5	3	4	4	2	0.8	1.2	0.4	0.7	0.6	1.2	0.4	1584	847	267	1274	572	752	195

Kent	76	76	36	56	66	61	36	9	3	2	4	9	5	5	7	5	3	2	4	4	1	0.8	0.8	0.4	1.0	1.0	0.8	0.4	1178	624	178	817	858	548	224
JHO-2001-3	51	91	11	31	21	76	51	10	9	2	10	2	8	3	7	6	4	5	1	4	2	1.5	0.8	0.4	0.9	0.6	0.8	0.4	872	1305	78	373	81	963	253
JHO-09-1	99	51	51	56	66	71	51	13	11	7	9	6	9	3	6	5	2	5	2	2	1	1.1	1.1	0.4	0.7	1.1	1.1	0.4	1831	808	460	460	549	792	228
SKO-90	99	76	41	99	26	16	76	11	11	2	12	2	12	3	6	6	3	6	2	6	5	1.2	1.1	0.4	1.4	0.6	1.5	0.4	1633	1255	237	765	106	282	651
JO-03-91	81	66	61	61	31	61	41	12	12	5	12	2	14	3	7	6	3	6	2	6	2	1.1	1.2	1.1	1.1	1.1	0.8	0.4	1485	1165	486	1700	146	1210	227
UPO-94	99	66	36	51	26	51	51	11	11	7	12	10	10	6	7	5	2	7	4	5	2	1.1	1.1	0.4	1.2	0.6	0.8	0.4	1782	1057	324	1048	381	764	425
JHO-851	76	81	51	66	71	81	76	13	10	2	3	2	9	3	8	7	6	5	3	5	1	1.2	1.0	0.4	0.7	0.6	0.8	1.2	1568	1376	431	951	372	1135	342
JHO-99-1	56	51	26	21	16	26	16	13	9	2	3	2	4	3	8	6	3	3	3	3	1	1.2	1.3	0.4	0.7	0.6	1.3	0.4	1193	791	139	573	85	188	71
JHO-2015-1	99	26	16	6	6	21	11	3	3	5	3	2	7	3	5	4	2	7	4	6	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	795	188	111	140	37	271	61
OS-6	51	26	16	16	16	26	36	3	15	7	3	8	8	10	8	4	3	6	2	6	2	1.5	0.8	0.4	0.7	1.0	1.1	1.0	562	488	150	61	164	356	440
OL-125	99	76	36	51	26	51	31	5	14	12	9	43	9	13	8	7	4	8	2	7	3	0.9	0.9	1.0	0.7	0.6	1.1	0.4	1304	1595	570	141	334	773	488
SKO-20	76	26	26	21	26	16	6	8	16	12	12	9	10	11	12	8	3	6	2	8	2	1.4	1.2	1.2	0.7	0.6	1.1	0.9	1532	606	403	866	298	296	74
OL-9	61	36	31	31	11	26	16	11	10	8	10	2	10	3	9	5	3	6	4	5	4	1.2	1.0	0.4	0.7	0.6	0.8	0.4	1159	547	343	366	67	391	108
IG-20-33	16	51	26	26	36	36	41	3	11	5	5	6	7	9	4	6	1	3	3	5	1	0.8	1.2	0.4	0.7	0.6	0.8	0.4	111	847	162	481	331	449	424
IG-20-404	76	99	44	46	56	16	41	11	11	8	10	6	4	6	7	7	1	6	3	4	1	1.0	0.8	0.4	0.9	0.6	0.8	0.4	1359	1766	399	215	459	123	299
IG-20-407	36	21	21	76	36	66	16	11	10	2	8	7	10	4	4	4	2	5	2	5	1	0.8	0.8	0.4	0.7	0.6	1.2	0.4	509	299	98	763	312	1030	93
IG-20-714	99	99	81	99	99	99	99	11	11	8	11	12	10	9	6	5	3	6	5	4	2	1.0	1.0	1.0	1.0	1.1	0.8	0.6	1630	1577	865	1006	1584	1395	1020
IG-20-764	99	99	86	99	56	99	99	10	7	10	11	7	11	5	7	4	5	4	2	4	1	1.0	0.8	1.0	0.9	0.6	0.9	0.4	1647	1030	1293	1616	477	1435	595
IG-20-56	51	26	26	16	16	16	6	8	3	3	9	5	7	5	3	2	1	2	2	2	1	0.8	0.8	0.4	0.7	0.6	0.8	0.4	552	135	119	1481	116	141	38
IG-20-763	99	36	26	61	51	99	99	11	8	7	7	10	11	3	5	4	2	2	2	5	4	1.0	0.8	1.0	0.7	0.6	0.8	0.4	1570	440	232	163	651	1534	706
IG-20-754	99	81	41	61	31	71	31	9	10	5	9	5	10	7	8	6	2	3	2	6	4	0.8	0.6	0.4	0.7	0.6	0.9	0.4	1713	1254	282	578	205	1111	324
IG-20-762	99	99	36	66	76	99	68	9	9	8	10	8	10	3	8	6	7	7	3	5	2	1.0	1.0	0.4	1.0	0.6	0.8	0.4	1729	1519	522	765	786	1551	367
IG-20-782	99	99	31	56	61	99	91	6	8	9	8	10	3	4	5	4	4	4	4	4	1	0.8	1.0	0.8	0.8	0.8	0.9	0.4	1055	1250	382	1111	846	694	479
IG-20-783	31	36	21	21	21	41	16	4	4	7	1	2	6	3	3	2	1	1	1	1	1	0.8	0.8	0.4	0.7	0.6	0.8	0.4	199	244	163	667	57	319	64
IG-20-796	31	11	16	31	41	21	16	10	9	2	3	2	7	8	4	4	3	2	2	3	1	0.8	0.8	0.4	0.7	0.6	0.8	0.4	431	139	83	38	175	210	148
IG-20-797	99	51	21	36	16	61	51	9	9	8	5	2	5	8	5	5	2	4	2	2	1	1.1	0.8	0.4	0.7	0.6	0.8	0.4	1387	697	206	162	72	447	468
IG-20-798	31	51	26	16	11	81	76	9	8	5	7	6	8	8	4	4	1	3	1	1	1	0.8	0.9	0.8	0.8	0.6	0.8	0.4	408	596	169	300	82	708	676
IG-20-799	41	41	26	51	26	51	45	5	10	5	8	2	6	5	3	4	4	3	2	3	2	1.1	0.8	0.4	0.7	0.6	1.1	0.4	328	547	223	149	109	492	319
IG-20-800	16	16	16	31	36	53	31	5	10	5	8	2	7	3	2	4	2	3	2	6	2	1.3	0.8	0.4	0.7	0.6	0.8	0.4	111	213	110	573	158	689	168
IG-20-801	16	11	61	99	56	51	41	5	9	7	9	4	9	9	4	4	4	3	3	3	3	0.8	0.8	0.4	1.2	0.6	1.1	0.6	140	143	691	356	387	628	482
IG-20-802	36	99	41	51	51	99	16	9	9	8	4	5	8	10	5	4	3	3	3	3	4	0.8	1.1	0.4	0.7	1.1	1.2	0.4	528	1260	457	1255	442	1088	224

IG-20-803	51	26	21	16	51	26	31	13	9	2	8	2	6	3	10	4	3	8	3	4	3	1.2	0.8	0.4	1.4	1.2	0.8	0.4	1139	325	112	383	271	240	182
IG-20-804	26	26	11	21	11	36	16	11	5	2	3	2	6	3	9	5	3	3	2	4	2	0.8	0.9	0.4	0.7	0.6	0.8	0.4	523	239	57	250	51	379	90
IG-20-805	21	61	31	51	36	66	31	3	9	3	3	2	8	3	5	3	2	3	5	4	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	169	753	160	140	256	748	148
IG-20-806	11	16	6	6	2	11	6	6	8	2	5	7	4	3	4	3	3	3	3	4	3	0.8	0.8	0.4	0.7	0.6	0.8	0.4	107	176	30	338	21	87	36
IG-20-807	16	6	31	16	16	41	6	10	9	6	3	2	10	3	5	3	3	4	3	5	3	1.0	1.2	0.4	0.7	0.6	0.8	0.4	235	72	279	52	88	602	34
IG-20-808	26	56	36	26	16	61	11	8	11	8	10	2	9	3	4	4	2	4	3	6	4	1.4	0.8	0.4	0.9	0.8	0.8	0.4	312	822	379	112	92	895	83
IG-20-809	16	11	11	16	11	31	11	10	3	4	7	5	8	5	4	4	2	5	3	5	3	1.3	0.8	0.4	0.7	0.6	0.8	0.4	227	75	73	364	90	392	88
IG-20-810	16	11	6	2	2	21	6	6	8	2	3	2	4	3	3	3	3	4	3	3	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	144	125	32	197	12	156	33
IG-20-811	41	36	41	36	41	31	11	8	5	4	5	6	5	5	3	2	1	3	2	3	1	0.8	0.8	0.4	0.7	0.6	0.8	0.4	458	239	184	15	330	244	72
IG-20-812	31	36	11	11	6	26	36	5	3	5	5	2	6	3	3	3	2	3	2	4	3	0.8	0.8	0.4	0.7	0.6	0.8	0.4	252	208	75	296	26	248	206
IG-20-813	56	46	6	46	36	26	16	8	10	4	10	5	5	3	5	6	4	5	3	4	2	0.8	0.8	1.0	0.7	1.2	0.8	0.4	734	721	47	79	308	251	92
IG-20-814	6	31	6	21	6	26	16	9	3	2	3	2	5	3	4	3	3	4	2	4	2	1.0	0.8	0.4	0.7	0.6	0.8	0.4	75	206	31	697	29	246	90
IG-20-815	31	21	31	11	21	36	26	10	3	5	6	5	5	5	4	2	2	3	1	2	2	1.2	0.8	0.4	0.7	0.6	0.8	0.4	420	119	221	144	130	265	174
IG-20-816	26	16	11	26	11	16	16	3	3	2	3	2	4	3	4	4	2	2	2	3	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	188	117	54	100	48	114	91
IG-20-817	31	21	56	51	26	51	51	8	7	3	5	6	9	8	5	3	2	2	1	3	2	1.3	1.1	0.4	1.5	1.4	1.1	0.4	413	209	289	126	189	632	526
IG-20-535	56	56	51	21	6	11	16	3	3	5	3	2	4	3	6	5	4	6	5	4	3	0.8	0.8	0.4	0.7	0.6	0.8	0.4	544	478	450	315	43	91	107
IG-20-894	99	99	99	99	99	99	99	10	10	10	11	11	11	10	4	3	3	5	4	4	3	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1393	1331	1264	204	1485	1501	1287
IG-20-407	16	11	6	16	11	26	21	8	3	2	3	2	4	3	4	4	3	4	2	4	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	198	76	30	1585	55	224	118
IG-20-408	21	6	21	11	6	6	11	8	3	2	3	2	4	3	3	3	2	3	2	3	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	228	36	97	109	26	45	52
IG-20-545	21	6	36	21	6	21	58	8	8	5	3	2	5	5	5	4	3	4	4	4	3	0.8	0.8	0.4	0.7	0.6	0.8	0.4	267	75	306	71	36	189	476
IG-20-512	99	99	99	46	91	99	99	9	10	11	3	8	10	3	3	4	2	3	3	3	2	1.2	1.0	1.1	0.7	1.0	1.0	0.4	1221	1385	1220	161	971	1321	485
IG-20-477	31	51	26	41	11	6	36	5	6	5	5	2	4	10	4	2	2	3	3	4	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	279	442	174	307	56	51	440
IG-20-575	16	26	16	11	16	21	16	8	3	2	7	3	5	6	3	2	2	2	3	2	3	0.8	0.8	0.4	0.7	0.6	0.8	0.4	179	144	70	348	95	143	150
IG-20-619	26	16	26	21	6	21	6	6	11	4	3	5	6	3	3	3	2	3	2	4	2	0.8	0.8	0.4	0.7	0.6	0.8	0.4	239	222	169	99	41	210	29
IG-20-653	56	91	41	16	11	99	46	3	11	7	3	2	8	3	4	3	2	2	4	3	2	0.8	1.2	0.4	0.7	0.6	1.1	0.4	369	1290	369	127	75	1040	221
IG-20-255	61	71	31	6	16	51	11	2	9	5	3	2	4	8	5	4	2	4	2	5	3	0.8	1.2	0.4	0.7	0.6	0.8	0.4	448	899	228	88	74	461	119
IG-20-1184	71	26	21	76	6	51	51	10	9	9	3	8	5	8	5	4	3	4	3	3	2	1.4	1.1	0.4	1.0	0.6	0.8	0.4	1064	326	242	42	66	400	528
IG-20-1200	56	51	31	21	26	36	61	8	8	3	8	2	10	7	6	5	4	4	4	4	3	1.0	1.0	0.4	0.7	0.6	0.8	0.4	757	650	214	532	170	532	606
IG-20-718	99	99	99	99	85	99	99	9	9	11	9	10	5	3	6	6	5	6	3	4	3	1.1	1.1	1.1	1.1	1.0	1.0	0.4	1459	1549	1566	263	1075	825	584
IG-20-724	41	56	36	56	81	91	26	10	9	6	7	9	9	6	3	5	2	4	4	3	2	1.0	1.0	0.4	1.5	1.4	1.4	1.1	533	757	295	1436	992	1096	217
IG-20-263	61	82	51	16	21	81	71	10	10	4	5	3	8	8	5	3	2	3	3	3	2	1.3	1.4	0.4	0.7	0.8	1.1	0.4	874	1025	308	634	119	911	655

IG-20-758	99	87	97	86	81	96	51	9	6	4	9	7	8	3	6	4	1	4	2	3	2	1.2	1.3	0.4	0.7	0.8	1.4	0.4	1469	832	518	136	716	1076	238
IG-20-748	99	99	66	99	81	91	99	10	3	5	10	5	9	6	5	4	2	4	1	4	1	1.4	0.8	0.8	1.4	1.4	1.2	0.4	1469	693	451	1132	534	1173	638
IG-20-723	99	99	96	76	56	99	71	10	7	12	4	9	7	10	9	3	1	7	2	3	2	1.2	0.9	0.4	1.0	0.6	0.9	0.4	1865	947	1206	1418	638	990	863
IG-20-48	36	66	36	31	21	21	31	10	10	5	10	4	6	2	6	3	2	6	2	4	1	0.8	0.8	0.4	0.7	0.6	0.8	0.4	582	825	229	825	116	194	112
IG-20-620	41	66	71	71	76	81	61	5	4	1	5	6	9	3	5	3	1	3	1	5	1	0.8	1.2	0.4	1.4	0.6	0.8	0.4	407	462	109	496	550	1146	256
IG-20-605	41	41	41	11	6	11	16	10	11	3	7	2	9	2	7	3	1	6	4	3	1	0.8	0.8	0.4	0.7	0.6	0.8	0.4	693	556	170	566	36	126	50
IG-20-1008	46	51	51	56	56	31	21	9	5	5	5	9	6	4	11	6	5	5	4	5	3	0.8	0.8	0.4	0.7	0.6	0.8	0.4	927	538	502	139	709	327	160
IG-20-1004	99	99	91	96	31	99	51	9	9	4	8	2	11	6	4	3	1	6	2	4	1	1.2	1.3	0.4	1.4	0.6	1.4	0.4	1303	1089	471	560	122	1432	349
IG-20-1039	36	36	21	21	21	71	36	8	5	4	6	8	6	5	5	4	3	3	3	5	5	0.8	0.8	0.4	0.7	0.6	0.8	0.4	484	308	139	1282	221	788	362
IG-20-1025	86	71	71	91	41	81	51	5	8	5	8	5	7	6	6	3	2	4	3	3	2	0.8	1.1	0.4	1.0	0.6	0.9	0.4	972	734	519	175	311	797	414
IG-20-1183	99	71	41	81	41	76	68	10	9	6	10	6	6	6	4	3	2	3	4	4	3	1.1	1.1	0.4	1.1	0.6	0.8	0.4	1462	828	304	1093	412	723	556
IG-20-1157	56	91	81	99	81	81	71	3	10	5	9	7	8	3	4	3	5	4	3	5	2	0.8	1.1	0.4	1.1	0.6	0.8	0.4	401	1254	770	1021	846	1045	391
IG-20-347	99	81	61	99	71	76	81	9	9	4	8	7	10	4	5	3	3	5	2	4	1	1.0	1.0	0.4	1.0	0.6	0.9	0.4	1307	1020	404	1187	646	1079	412
IG-20-1188	99	91	86	96	81	81	91	10	8	6	8	8	9	3	7	5	1	4	3	4	1	1.1	1.1	0.4	1.4	1.0	1.0	0.4	1617	1162	573	1273	924	1058	357
IG-20-449	51	51	21	51	51	41	46	10	10	1	9	6	9	5	4	4	2	4	3	4	1	1.1	1.1	0.4	1.1	0.6	0.8	0.4	725	699	64	1174	462	527	280
IG-20-425	51	46	31	31	31	46	51	11	5	3	6	5	8	3	8	3	1	2	1	4	1	0.8	0.8	0.4	0.7	1.3	1.0	0.4	959	388	129	668	175	547	166
IG-20-678	51	46	36	51	41	51	46	8	8	2	10	8	9	5	10	4	2	5	4	5	2	0.8	0.8	0.8	1.2	0.8	1.0	0.7	914	543	159	245	481	740	353
IG-20-1280	99	91	76	66	91	99	99	8	10	7	10	13	6	9	10	9	1	4	3	4	1	1.0	1.1	0.4	0.9	1.0	0.9	0.9	1795	1735	35	740	1453	1030	1010