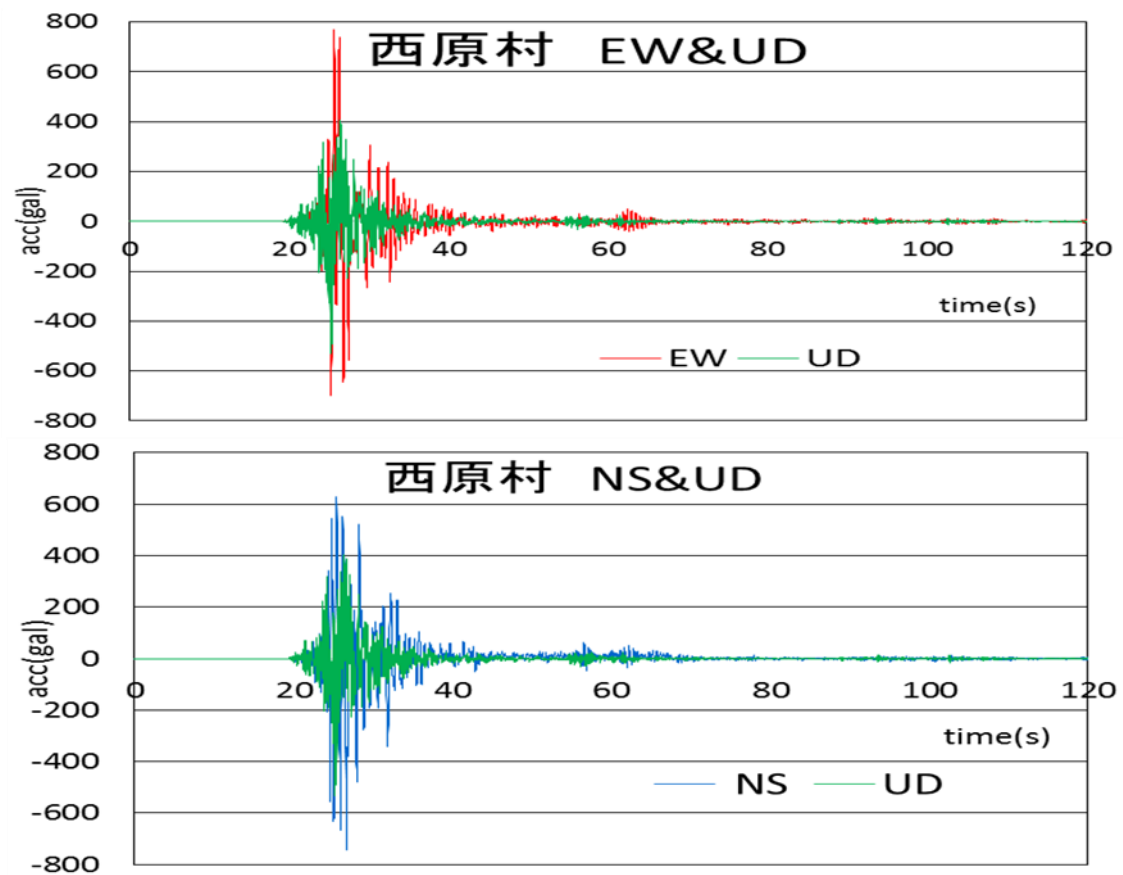


熊本地震

以下に熊本地震の際に西原村で観測された加速度波形を示す。

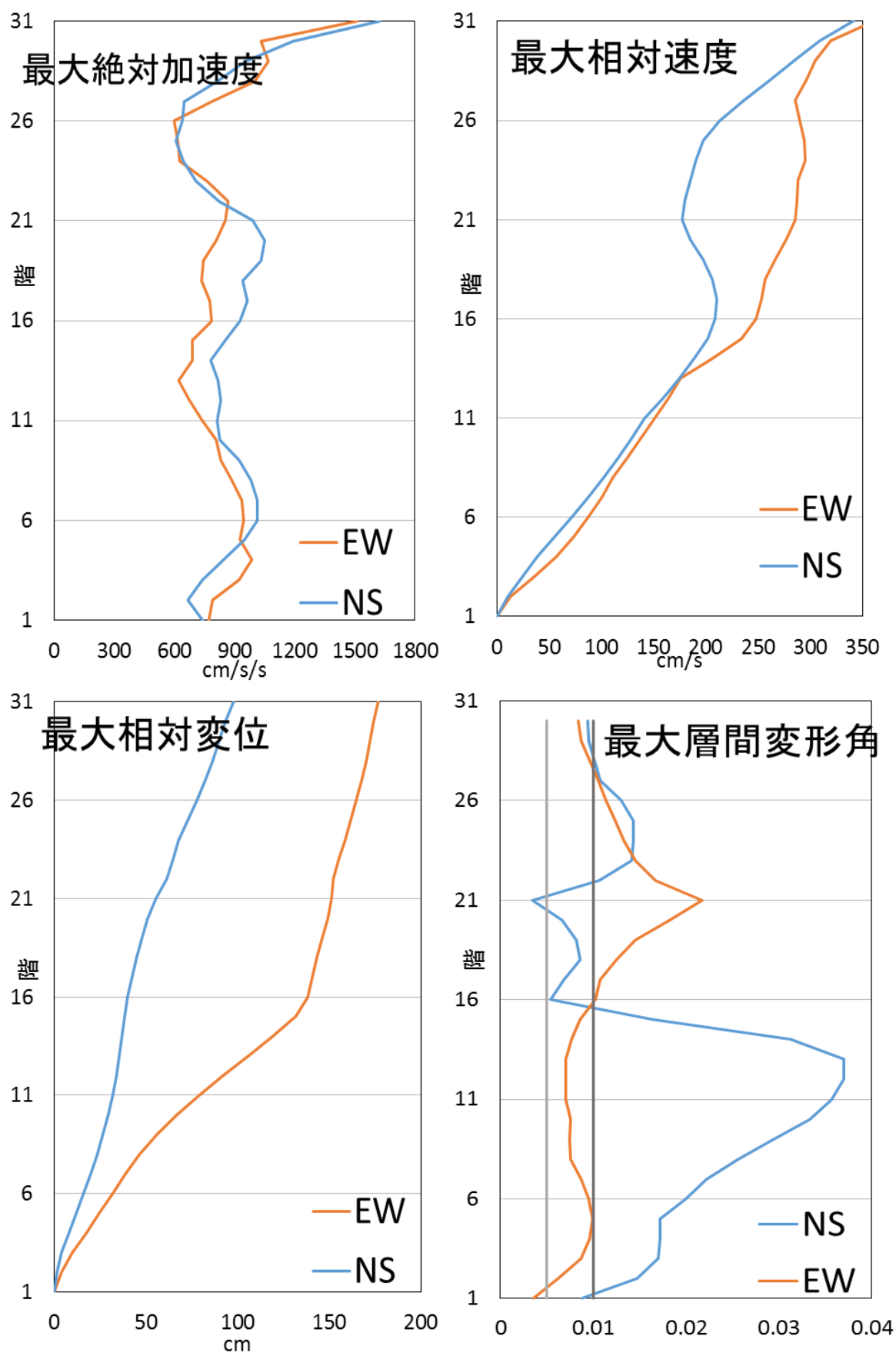
この加速度波形を用い、EW 成分 (EW と UD)、NS 成分 (NS と UD) に分け解析を行った。

各階の加速度、変位波形は下図である。

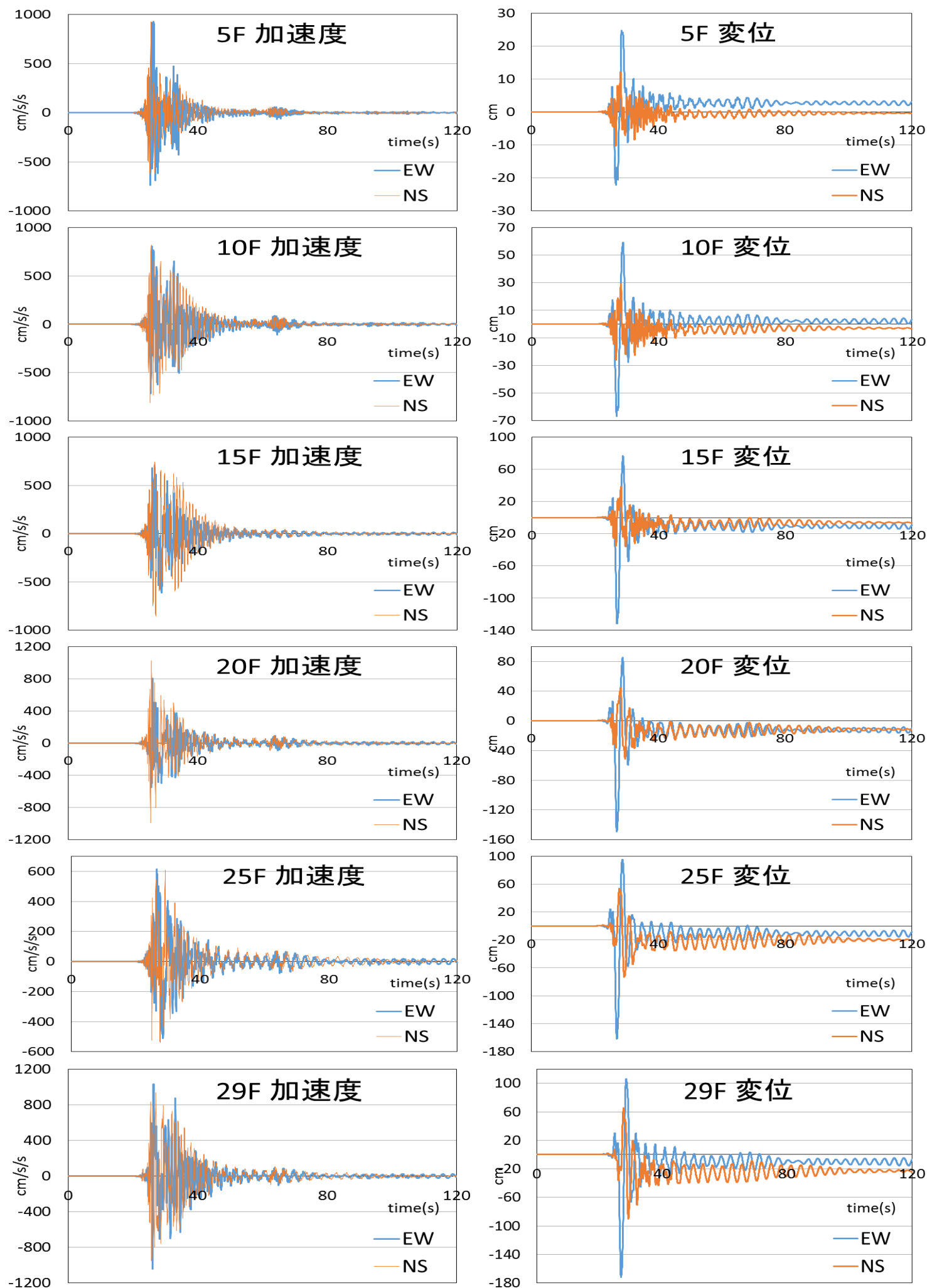


次ページから最大応答値、各階加速度・変位、塑性ヒンジ図、累積塑性変形倍率を示す。

熊本地震 最大応答値

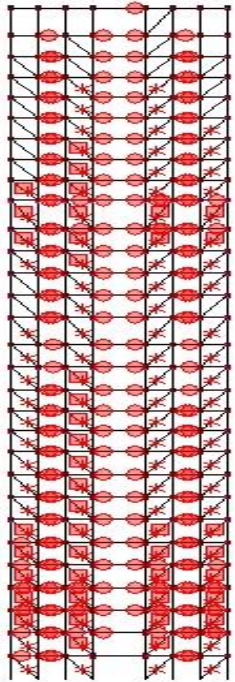


西原村__各階加速度・変位

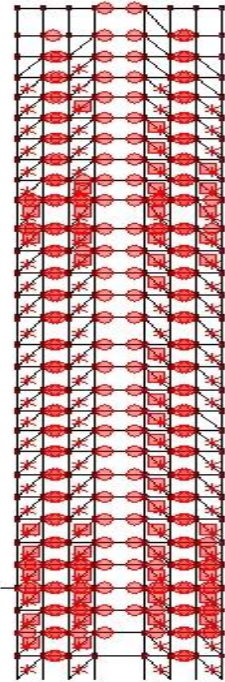


熊本地震 塑性ヒンジ図

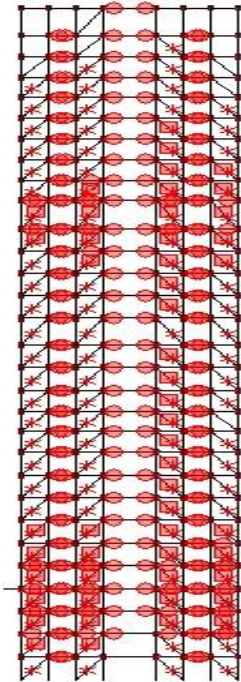
X2



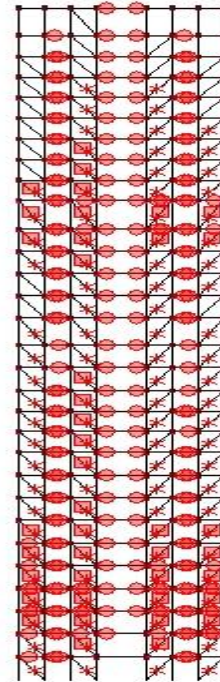
X4



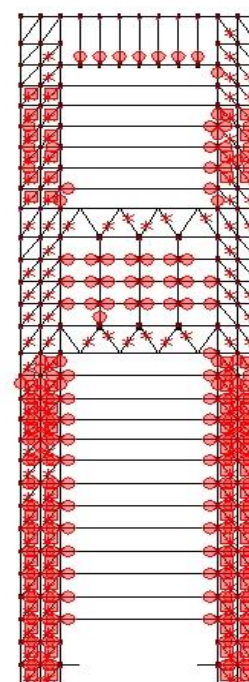
X8



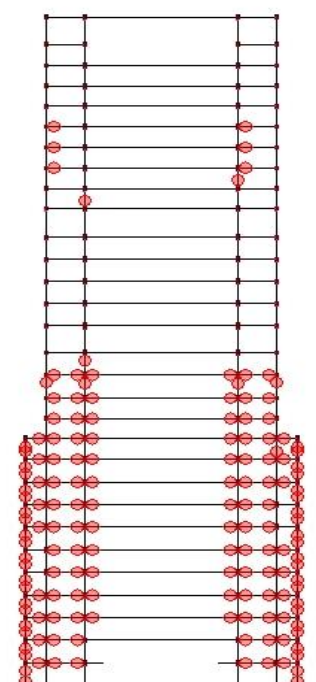
X10



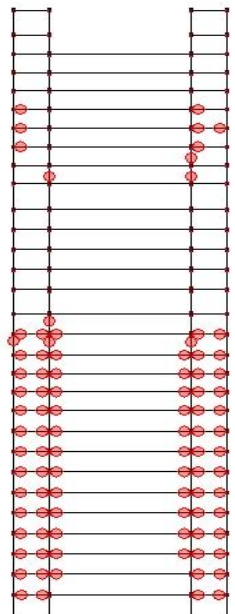
Y14



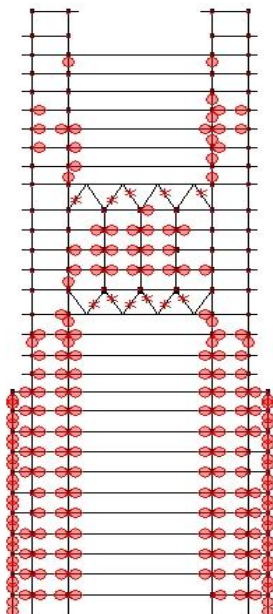
Y15



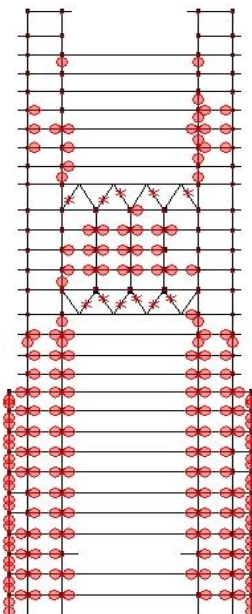
Y16



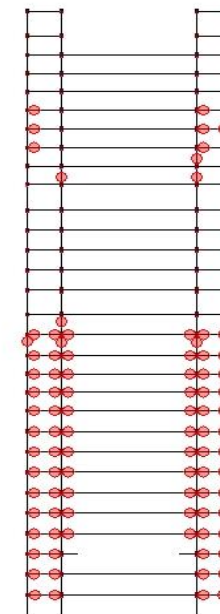
Y17



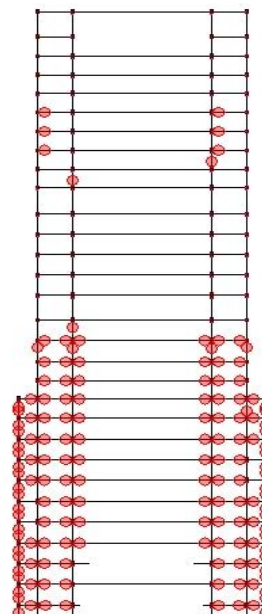
Y18



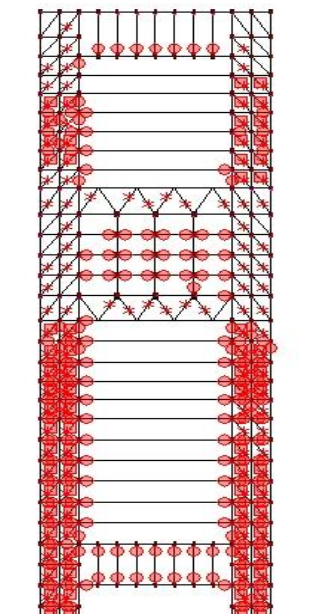
Y19



Y20



Y21



塑性率 EW

Y14					Y15					Y16					Y17					
梁I端		梁J端		トラス	梁I端		梁J端			梁I端		梁J端			梁I端		梁J端		トラス	
969-970	10.303	970-971	14.851	884-971	21.045	982-983	5.442	896-897	9.678	989-990	5.521	990-991	7.596	998-999	5.972	913-914	9.657	1248-1332	4.987	
883-884	9.914	884-885	14.163	883-970	20.578	987-988	4.808	810-811	8.835	905-906	5.355	995-996	7.392	1004-1005	5.49	827-828	8.41	1332-1249	4.62	
979-980	9.805	980-981	13.321	970-1053	20.535	1064-1065	4.711	987-988	7.307	995-996	5.084	906-907	7.366	914-915	5.324	1004-1005	7.537	1247-1331	4.529	
970-971	9.348	798-799	13	969-1052	20.03	897-898	4.617	982-983	7.265	1071-1072	5.054	911-912	7.177	1080-1081	5.323	999-1000	7.442	1331-1248	4.252	
893-894	9.292	1052-1053	12.836	798-885	19.783	902-903	4.608	897-898	7.041	819-820	4.969	1072-1073	6.864	920-921	5.273	915-916	7.2	1743-1661	3.464	
797-798	9.273	894-895	12.73	797-884	19.441	903-904	4.567	724-725	6.607	911-912	4.928	820-821	6.83	828-829	5.089	1081-1082	6.782	1249-1333	2.975	
1051-1052	8.87	969-970	12.119	1052-1135	16.682	130-131	4.541	1064-1065	6.546	1077-1078	4.545	1077-1078	6.794	1086-1087	4.897	1086-1087	6.692	1659-1742	2.894	
884-885	8.559	979-980	11.986	1051-1134	16.068	811-812	4.469	811-812	6.478	825-826	4.486	825-826	6.662	834-835	4.842	829-830	6.646	1742-1660	2.569	
807-808	8.427	1062-1063	11.693	712-799	12.963	1069-1070	4.269	1069-1070	6.327	733-734	4.464	734-735	6.117	148-149	4.783	920-921	6.52	1333-1250	2.493	
711-712	8.391	808-809	11.682	711-798	12.691	216-217	4.258	902-903	5.899	739-740	3.953	739-740	6.003	742-743	4.487	834-835	6.3	1658-1741	1.334	
1061-1062	8.371	712-713	11.42	626-713	11.314	816-817	4.185	725-726	5.787	647-648	3.771	648-649	5.177	921-922	4.463	741-742	6.254	1744-1662	1.318	
798-799	8.255	883-884	11.139	625-712	11.229	817-818	4.176	816-817	5.773	218-219	3.42	653-654	5.104	748-749	4.271	743-744	5.923	1660-1743	0.943	
980-981	8.053	797-798	10.982	539-626	9.682	725-726	3.89	730-731	5.043	224-225	3.322	562-563	4.422	234-235	4.27	748-749	5.533	1330-1247	0.928	
712-713	7.345	893-894	10.965	540-627	9.559	730-731	3.654	639-640	4.874	132-133	3.287	567-568	4.357	656-657	3.771	657-658	5.009	1250-1334	0.715	
894-895	7.265	722-723	10.491	453-540	8.324	59-60	3.313	553-554	4.138	395-396	3.282	1159-1160	3.971	835-836	3.74	662-663	4.708	1741-1659	0.657	
721-722	7.242	807-808	10.396	454-541	8.115	639-640	3.207	638-639	4.13	653-654	3.27	476-477	3.952	662-663	3.565	571-572	4.186	1661-1744	0.596	
625-626	6.974	711-712	9.953	1134-1217	8.022	301-302	3.174	644-645	4.114	303-304	3.246	481-482	3.869	77-78	3.5	576-577	4.114			
808-809	6.884	626-627	9.381	367-454	7.516	215-216	3.149	53-54	3.786	481-482	3.239	390-391	3.439	319-320	3.238	1168-1169	4.09			
120-121	6.336	721-722	9.182	1133-1216	7.473	386-387	3.007	123-124	3.766	389-390	3.228	1154-1155	3.407	1162-1163	3.184	140-141	3.988			
722-723	6.09	636-637	8.595	368-455	7.247	644-645	2.979	467-468	3.667	309-310	3.167	395-396	3.376	141-142	3.16	69-70	3.957			
635-636	5.771	625-626	8.011	122-207	7.075	210-211	2.967	1151-1152	3.646	561-562	3.162	309-310	2.9	570-571	3.159	655-656	3.811			
626-627	5.736	540-541	7.653	293-378	6.989	58-59	2.944	558-559	3.618	475-476	3.155	304-305	2.882	233-234	3.117	490-491	3.656			
539-540	5.676	635-636	7.145	208-292	6.955	300-301	2.923	472-473	3.188	567-568	2.912	138-139	2.874	227-228	3.108	485-486	3.635			
117-118	5.659	550-551	6.972	379-464	6.919	472-473	2.92	381-382	3.187	1153-1154	2.814	219-220	2.775	484-485	3.038	1163-1164	3.279			
196-197	5.64	1134-1135	6.526	281-368	6.71	124-125	2.864	54-55	3.085	138-139	2.718	224-225	2.775	312-313	3.028	404-405	3.173			
291-292	5.251	454-455	6.493	378-463	6.561	295-296	2.76	1146-1147	3.085	61-62	2.673	67-68	2.759	398-399	3.01	399-400	3.143			
206-207	5.11	539-540	6.375	121-206	6.511	731-732	2.699	209-210	2.844	991-992	2.498	910-911	2.649	404-405	2.978	147-148	2.788			
377-378	5.05	1144-1145	6.056	292-377	6.475	553-554	2.637	386-387	2.758	67-68	2.448	994-995	2.608	318-319	2.966	318-319	2.748			
463-464	5	464-465	5.963	207-291	6.416	467-468	2.631	901-902	2.683	1073-1074	2.349	62-63	2.547	490-491	2.95	226-227	2.688			
45-46	4.987	118-119	5.595	465-550	6.408	381-382	2.623	295-296	2.674	907-908	2.341	824-825	2.487	576-577	2.918	228-229	2.629			
281-282	4.967	549-550	5.455	52-121	6.354	558-559	2.568	986-987	2.638	821-822	2.184	133-134	2.373	147-148	2.855	313-314	2.624			
453-454	4.816	368-369	5.42	282-369	6.286	983-984	2.522	210-211	2.578	735-736	2.137	1076-1077	2.239	916-917	2.781	1003-1004	2.612			
50-51	4.711	453-454	5.15	1964-2043	6.204	1146-1147	2.468	129-130	2.454	1159-1160	1.978	738-739	2.052	1000-1001	2.725	71-72	2.551			
636-637	4.615	378-379	5.145	464-549	6.197	129-130	2.467	300-301	2.422	649-650	1.913	652-653	1.645	1082-1083	2.72	233-234	2.489			
549-550	4.611	121-122	5.094	1884-1963	6.161	812-813	2.405	215-216	2.301	1973-1974	1.735	566-567	1.342	830-831	2.626	142-143	2.464			
1133-1134	4.599	51-52	5.037	45-118	6.116	898-899	2.377	58-59	2.298	563-564	1.731	480-481	1.312	1168-1169	2.49	1413-1414	2.459			
367-368	4.564	46-47	5.036	117-197	6.108	1065-1066	2.37	1068-1069	2.259	1979-1980	1.681	394-395	1.296	744-745	2.488	76-77	2.45			
207-208	4.559	207-208	4.84	196-282	6.071	54-55	2.249	815-816	2.258	477-478	1.618	223-224	1.235	76-77	2.484	919-920	2.441			

塑性率 EW

Y18						Y19				Y20				Y21					
梁端		梁端		トラス		梁端		梁J端		梁端		梁J端		梁端		梁J端		トラス	
1012-1013	5.972	927-928	9.673	1263-1346	4.979	1022-1023	5.522	1023-1024	7.598	1031-1032	5.443	947-948	9.697	1038-1039	10.288	1039-1040	14.875	957-1040	21.085
1018-1019	5.468	841-842	8.426	1346-1264	4.627	938-939	5.355	1029-1030	7.399	1036-1037	4.803	861-862	8.855	956-957	9.895	957-958	14.195	1039-1122	20.569
928-929	5.332	1019-1020	7.542	1262-1345	4.52	1028-1029	5.064	939-940	7.366	1113-1114	4.712	1036-1037	7.308	1048-1049	9.821	1049-1050	13.304	956-1039	20.554
1094-1095	5.322	1013-1014	7.441	1345-1263	4.251	1104-1105	5.054	945-946	7.179	948-949	4.617	1031-1032	7.278	1039-1040	9.368	871-872	13.036	1038-1121	20.01
934-935	5.257	929-930	7.186	1758-1675	3.472	852-853	4.968	1105-1106	6.864	953-954	4.612	948-949	7.029	966-967	9.31	1121-1122	12.852	871-958	19.832
842-843	5.088	1095-1096	6.781	1264-1347	2.973	944-945	4.913	853-854	6.83	954-955	4.572	775-776	6.626	870-871	9.251	967-968	12.71	870-957	19.412
1100-1101	4.881	1101-1102	6.692	1673-1757	2.884	1110-1111	4.529	1111-1112	6.796	181-182	4.541	1113-1114	6.549	1120-1121	8.857	1038-1039	12.097	1121-1204	16.709
848-849	4.826	843-844	6.644	1757-1674	2.569	858-859	4.472	859-860	6.663	862-863	4.47	862-863	6.507	957-958	8.583	1048-1049	12.007	1120-1203	16.057
163-164	4.78	935-936	6.521	1347-1265	2.502	766-767	4.464	767-768	6.117	1118-1119	4.269	1118-1119	6.327	880-881	8.451	1131-1132	11.678	785-872	13.005
756-757	4.485	849-850	6.299	1672-1756	1.341	255-256	4.134	773-774	6.008	264-265	4.257	953-954	5.901	1130-1131	8.382	881-882	11.659	784-871	12.668
936-937	4.468	755-756	6.268	1759-1676	1.324	772-773	3.937	681-682	5.173	867-868	4.182	776-777	5.791	784-785	8.366	785-786	11.478	699-786	11.364
248-249	4.266	757-758	5.922	1674-1758	0.943	680-681	3.77	687-688	5.095	868-869	4.179	867-868	5.775	871-872	8.285	956-957	11.113	698-785	11.202
762-763	4.255	763-764	5.537	1344-1262	0.922	428-429	3.356	595-596	4.428	263-264	3.978	781-782	5.045	276-277	8.08	966-967	10.991	612-699	9.649
246-247	3.895	671-672	5.006	1265-1348	0.715	250-251	3.352	601-602	4.351	776-777	3.892	690-691	4.866	1049-1050	8.04	870-871	10.953	613-700	9.616
670-671	3.77	677-678	4.696	1756-1673	0.661	165-166	3.277	1193-1194	3.962	781-782	3.655	604-605	4.149	785-786	7.383	795-796	10.464	526-613	8.286
850-851	3.745	585-586	4.185	1675-1759	0.594	686-687	3.266	509-510	3.926	109-110	3.313	689-690	4.146	794-795	7.266	880-881	10.426	527-614	8.173
676-677	3.56	591-592	4.103			336-337	3.235	515-516	3.872	690-691	3.209	695-696	4.114	967-968	7.25	784-785	9.92	1203-1288	8.04
92-93	3.499	1183-1184	4.079			422-423	3.228	423-424	3.51	352-353	3.173	103-104	3.788	698-699	6.946	699-700	9.411	1202-1287	7.468
334-335	3.233	154-155	3.994			514-515	3.207	251-252	3.478	437-438	3.087	174-175	3.772	881-882	6.866	794-795	9.216	440-527	7.467
1176-1177	3.183	83-84	3.96			594-595	3.162	1187-1188	3.407	108-109	3.015	518-519	3.65	795-796	6.069	709-710	8.564	441-528	7.308
584-585	3.158	669-670	3.823			508-509	3.151	429-430	3.388	695-696	2.977	1200-1201	3.645	450-451	5.898	698-699	7.973	195-277	7.032
155-156	3.152	505-506	3.661			342-343	2.947	343-344	2.906	259-260	2.901	609-610	3.619	708-709	5.799	613-614	7.81	366-451	6.943
241-242	3.092	499-500	3.617			600-601	2.922	172-173	2.866	523-524	2.894	259-260	3.378	699-700	5.779	708-709	7.182	278-365	6.907
418-419	3.048	242-243	3.306			1186-1187	2.813	256-257	2.794	175-176	2.865	432-433	3.261	183-184	5.657	267-268	6.983	452-537	6.876
498-499	3.036	1177-1178	3.279			94-95	2.673	101-102	2.76	346-347	2.751	523-524	3.191	612-613	5.644	623-624	6.941	354-441	6.657
326-327	3.017	413-414	3.196			171-172	2.564	337-338	2.659	351-352	2.709	104-105	3.166	266-267	5.638	1203-1204	6.541	451-536	6.615
412-413	3.012	419-420	3.184			1024-1025	2.5	943-944	2.649	782-783	2.702	1195-1196	3.085	114-115	5.318	612-613	6.331	277-364	6.528
504-505	2.924	162-163	2.782			100-101	2.499	1027-1028	2.608	604-605	2.639	258-259	2.836	354-355	4.967	527-528	6.326	365-450	6.527
590-591	2.923	333-334	2.729			1106-1107	2.348	95-96	2.581	518-519	2.636	437-438	2.764	536-537	4.786	441-442	6.079	194-276	6.438
930-931	2.781	240-241	2.68			940-941	2.343	857-858	2.486	432-433	2.626	952-953	2.683	526-527	4.776	1213-1214	6.043	538-623	6.369
332-333	2.728	1017-1018	2.611			854-855	2.186	1109-1110	2.238	609-610	2.58	1035-1036	2.639	622-623	4.641	537-538	5.933	355-442	6.355
1014-1015	2.723	85-86	2.592			768-769	2.138	166-167	2.229	1032-1033	2.528	866-867	2.53	709-710	4.592	112-113	5.637	116-194	6.327
1096-1097	2.719	247-248	2.523			1192-1193	1.978	771-772	2.05	1195-1196	2.468	180-181	2.454	111-112	4.591	622-623	5.5	537-622	6.246
161-162	2.654	1427-1428	2.455			682-683	1.912	685-686	1.645	1114-1115	2.375	346-347	2.436	1202-1203	4.588	451-452	5.11	2031-2110	6.21
844-845	2.627	91-92	2.451			2005-2006	1.758	599-600	1.34	949-950	2.366	351-352	2.416	440-441	4.562	526-527	5.097	1951-2030	6.168
90-91	2.534	933-934	2.439			596-597	1.734	427-428	1.319	180-181	2.274	263-264	2.314	277-278	4.488	194-195	5.071	183-267	6.056
1182-1183	2.489	327-328	2.426			2010-2011	1.649	513-514	1.305	104-105	2.25	108-109	2.298	1212-1213	4.472	115-116	5.023	111-184	6.05

塑性率 NS

X2						X4						X8						X10					
梁端		梁端		トラス		梁端		梁端		トラス		梁端		梁端		トラス		梁端		梁端		トラス	
1640-1647	5.109	1640-1647	7.804	1670-1764	5.195	1682-1690	5.843	1682-1690	8.14	1649-1740	6.303	1686-1694	5.914	1686-1694	8.232	1653-1745	6.424	1646-1654	5.106	1646-1654	7.849	1678-1772	5.197
1722-1729	4.812	1680-1689	7.391	1588-1680	4.984	1641-1649	5.689	1641-1649	8	1567-1658	6.231	1645-1653	5.686	1645-1653	7.997	1571-1662	6.413	1688-1695	4.926	1688-1695	7.581	1596-1688	4.982
1680-1689	4.792	1722-1729	7.356	227-303	4.285	1766-1774	5.176	1766-1774	7.604	1629-1723	5.568	1770-1778	5.259	1770-1778	7.71	1637-1727	5.583	1728-1736	4.798	1728-1736	7.381	234-310	4.287
336-346	4.356	1764-1773	6.858	312-389	4.242	1723-1731	5.006	1723-1731	7.146	1547-1641	5.085	1745-1750	5.042	1727-1735	7.158	1555-1645	5.103	1772-1779	4.356	1772-1779	7.027	319-396	4.246
1764-1773	4.239	1558-1565	6.43	141-218	4.126	382-391	4.354	1846-1854	6.496	1731-1824	4.806	1727-1735	5.002	1750-1760	6.872	1735-1828	4.969	344-352	4.338	1564-1572	6.437	148-225	4.123
295-303	4.217	1598-1607	6.101	1689-1780	4.098	296-305	4.313	1600-1608	6.447	268-347	4.684	386-395	4.313	1850-1858	6.608	276-351	4.691	301-310	4.272	1606-1613	6.268	1695-1792	4.09
422-432	4.172	1806-1813	5.964	210-281	4.051	1600-1608	4.171	1807-1815	5.972	356-433	4.628	300-309	4.279	1604-1612	6.532	364-437	4.635	430-438	4.149	1812-1820	5.971	216-293	4.061
1558-1565	4.122	1845-1853	5.518	326-422	3.989	1559-1567	4.065	1559-1567	5.844	185-260	4.586	1604-1612	4.24	1811-1819	5.904	193-263	4.592	1564-1572	4.095	1852-1859	5.658	334-430	3.982
250-259	4.1	1476-1483	5.177	295-367	3.946	468-477	4.031	1926-1934	5.36	252-328	4.426	1850-1858	4.065	1563-1571	5.814	1489-1580	4.556	257-264	4.093	1524-1531	5.157	301-379	3.958
210-218	4.019	1516-1525	5.007	1753-1845	3.88	1846-1854	4	1518-1526	5.241	338-414	4.407	1563-1571	4.063	1930-1938	5.464	255-332	4.434	387-396	4.072	1482-1490	5.15	1762-1852	3.881
381-389	4.004	1886-1893	4.908	124-196	3.856	211-220	3.937	1887-1895	4.875	1485-1576	4.38	472-481	3.988	1522-1530	5.318	342-418	4.414	216-225	4.063	1892-1900	4.877	130-208	3.867
508-518	3.963	1925-1933	4.514	346-440	3.849	1807-1815	3.907	1477-1485	4.783	167-243	4.168	215-224	3.91	1891-1899	4.859	171-246	4.173	516-524	3.938	1932-1939	4.611	352-452	3.855
467-475	3.704	1394-1401	4.151	241-336	3.842	338-347	3.853	2006-2014	4.58	305-400	4.109	1811-1819	3.901	1481-1489	4.757	309-404	4.149	1606-1613	3.815	1442-1449	4.275	248-344	3.835
1598-1607	3.699	1665-1670	4.15	398-475	3.813	424-433	3.838	1436-1444	4.461	424-500	4.097	342-351	3.832	2010-2018	4.675	428-504	4.104	473-482	3.786	1668-1678	4.193	405-482	3.822
1806-1813	3.612	1434-1443	4.14	259-354	3.754	125-134	3.665	424-433	4.103	442-519	4.084	428-437	3.814	1440-1448	4.533	450-523	4.091	1812-1820	3.59	301-310	4.107	264-366	3.759
594-604	3.431	295-303	4.108	381-453	3.498	252-260	3.542	1395-1403	4.103	283-382	4.024	129-138	3.64	2090-2098	4.187	291-386	4.041	602-610	3.405	1751-1762	4.087	387-465	3.511
165-175	3.405	1966-1973	4.09	1607-1696	3.487	510-519	3.485	2086-2094	4.089	1600-1672	4.017	255-263	3.532	428-437	4.118	1604-1676	4.037	173-181	3.394	1400-1408	4.085	420-516	3.479
124-132	3.306	336-346	4.03	412-508	3.485	554-563	3.44	1967-1975	4.086	198-296	4.005	514-523	3.459	1399-1407	4.1	206-300	4.023	1663-1668	3.337	344-352	4.047	1613-1708	3.473
1656-1665	3.253	1748-1753	4.025	155-250	3.455	1658-1666	3.362	1666-1672	4.049	220-314	3.958	558-567	3.394	1971-1979	4.067	224-318	3.991	130-139	3.334	387-396	4.021	163-257	3.449
1845-1853	3.229	381-389	4.015	175-266	3.371	2047-2055	3.347	338-347	4.044	1682-1755	3.953	1522-1530	3.393	342-351	4.058	1686-1760	3.954	1852-1859	3.318	1972-1980	4.021	181-278	3.377
1738-1748	3.184	422-432	3.932	432-526	3.282	1518-1526	3.334	1749-1755	3.964	1711-1807	3.722	1662-1667	3.384	1667-1676	4.052	1407-1498	3.835	1746-1751	3.251	430-438	3.95	438-538	3.285
1476-1483	3.163	467-475	3.787	484-561	3.19	167-176	3.278	1354-1362	3.751	391-486	3.695	2051-2059	3.371	1735-1745	3.883	395-490	3.741	559-568	3.22	473-482	3.796	491-568	3.204
553-561	3.128	210-218	3.626	1506-1598	3.167	1477-1485	3.238	510-519	3.717	1403-1494	3.677	171-180	3.265	1358-1366	3.814	1719-1811	3.739	1482-1490	3.112	2012-2019	3.685	1514-1606	3.164
1516-1525	2.91	2005-2013	3.625	1656-1729	3.099	2127-2135	3.191	382-391	3.706	119-211	3.662	1930-1938	3.255	2051-2059	3.736	120-215	3.678	1524-1531	3.013	1586-1596	3.643	1663-1736	3.105
1574-1583	2.803	508-518	3.617	1574-1647	3.004	1926-1934	3.177	2047-2055	3.703	510-586	3.537	1481-1489	3.244	514-523	3.732	514-590	3.543	1581-1586	2.882	516-524	3.636	1581-1654	3.016
1886-1893	2.79	1583-1588	3.602	467-539	2.848	1740-1749	3.116	296-305	3.694	134-229	3.487	2131-2139	3.214	386-395	3.686	138-233	3.513	1829-1834	2.809	216-225	3.623	473-551	2.862
196-210	2.763	250-259	3.58	498-594	2.804	1887-1895	3.068	1649-1658	3.581	369-468	3.389	1971-1979	3.073	1653-1662	3.681	1819-1908	3.458	208-216	2.762	257-264	3.601	506-602	2.799
1822-1831	2.729	2046-2053	3.532	1836-1925	2.591	1967-1975	3.047	1832-1837	3.566	1815-1904	3.326	1891-1899	3.068	300-309	3.675	377-472	3.403	1892-1900	2.741	1834-1843	3.566	1843-1932	2.593
680-690	2.686	1831-1836	3.521	1773-1860	2.561	596-605	2.906	1313-1321	3.505	528-605	3.32	600-609	2.88	1833-1841	3.57	536-609	3.326	2092-2099	2.712	2092-2099	3.505	577-654	2.556
2085-2093	2.652	2085-2093	3.362	570-647	2.539	2086-2094	2.835	1584-1590	3.493	1698-1774	3.312	1440-1448	2.836	2170-2178	3.562	1706-1778	3.309	688-696	2.658	2052-2060	3.463	1779-1872	2.554
281-295	2.595	553-561	3.355	518-612	2.513	1436-1444	2.779	2166-2174	3.459	1465-1559	3.255	2090-2098	2.836	1317-1325	3.521	1473-1563	3.273	2172-2179	2.611	559-568	3.364	524-624	2.514
2165-2173	2.558	1911-1916	3.215	1424-1516	2.506	2166-2174	2.749	252-260	3.412	1321-1412	3.126	2211-2219	2.768	255-263	3.429	1325-1416	3.261	1932-1939	2.607	1914-1923	3.256	1432-1524	2.504
1925-1933	2.544	594-604	3.183	584-680	2.421	2207-2215	2.741	1912-1917	3.322	1518-1590	3.107	2170-2178	2.739	1585-1594	3.417	1522-1594	3.122	293-301	2.594	602-610	3.203	1923-2012	2.454
1902-1911	2.463	1501-1506	3.147	1916-2005	2.419	1395-1403	2.721	1690-1698	3.319	477-572	3.057	1399-1407	2.736	2131-2139	3.327	481-576	3.107	1909-1914	2.537	1504-1514	3.185	592-688	2.418
2046-2053	2.46	2126-2133	3.006	1640-1709	2.37	1824-1832	2.711	468-477	3.313	1616-1690	3.039	2010-2018	2.725	1694-1706	3.315	1624-1694	3.037	1499-1504	2.489	2074-2083	3.001	1646-1721	2.37
1492-1501	2.414	725-733	3.005	756-852	2.263	2006-2014	2.661	2127-2135	3.281	596-672	2.905	1828-1833	2.702	472-481	3.285	1899-1988	2.912	2052-2060	2.463	731-740	2.984	764-860	2.264
1394-1401	2.37	2071-2076	2.974	70-132	2.257	1576-1584	2.626	596-605	3.215	1895-1984	2.878	1580-1585	2.552	1913-1921	3.241	600-676	2.911	645-654	2.46	1994-2003	2.973	77-139	2.252

累積塑性変形倍率 EW

Y14						Y15				Y16				Y17					
梁端		梁端		トラス		梁端		梁端		梁端		梁端		梁端		梁端		トラス	
979-980	20.861	970-971	23.656	1062-1143	63.576	982-983	9.743	987-988	10.329	989-990	10.397	995-996	11.034	998-999	11.335	1004-1005	11.845	1248-1332	24.385
893-894	19.853	884-885	22.584	1063-1144	54.043	987-988	8.259	982-983	9.654	905-906	10.209	911-912	10.821	1004-1005	10.026	999-1000	10.961	1247-1331	21.206
969-970	19.466	798-799	20.933	980-1061	52.387	902-903	7.983	897-898	9.397	819-820	9.75	990-991	10.777	920-921	9.752	915-916	10.769	1743-1661	18.527
883-884	18.677	980-981	20.538	981-1062	48.197	1064-1065	7.411	896-897	8.67	995-996	9.412	906-907	10.705	914-915	9.713	834-835	10.146	1332-1249	16.982
807-808	18.28	1052-1053	19.705	798-885	42.09	811-812	7.301	811-812	8.51	911-912	9.38	825-826	10.368	828-829	9.712	920-921	10.067	1331-1248	14.413
797-798	17.772	894-895	19.635	1144-1225	39.931	897-898	7.262	1064-1065	8.163	733-734	9.31	739-740	9.895	1080-1081	9.152	829-830	10.003	1249-1333	13.254
711-712	17.32	712-713	19.215	884-971	39.865	130-131	7.223	1069-1070	8.127	1071-1072	8.825	820-821	9.891	742-743	9.111	1086-1087	9.74	1333-1250	12.598
1061-1062	16.721	808-809	18.924	895-980	38.552	816-817	7.148	123-124	8.096	825-826	8.628	1077-1078	9.576	834-835	9.076	748-749	9.462	1659-1742	12.013
721-722	16.665	722-723	18.695	809-894	38.494	1069-1070	6.67	810-811	7.827	647-648	8.536	734-735	9.211	748-749	8.425	1081-1082	9.442	1742-1660	9.15
970-971	16.045	636-637	17.197	722-807	38.42	725-726	6.668	725-726	7.722	739-740	8.066	1072-1073	9.199	656-657	8.343	743-744	9.295	1658-1741	1.85
625-626	15.998	1062-1063	17.013	808-893	38.066	730-731	6.512	816-817	7.712	561-562	7.92	653-654	9.031	1086-1087	8.205	140-141	8.868	1744-1662	1.578
1051-1052	15.635	626-627	16.968	378-463	37.465	639-640	5.978	902-903	7.634	1077-1078	7.826	567-568	8.409	148-149	7.883	662-663	8.659		
635-636	14.88	979-980	16.626	464-549	37.035	644-645	5.732	730-731	7.104	475-476	7.477	648-649	8.27	570-571	7.722	913-914	8.648		
884-885	14.849	550-551	15.902	379-464	36.997	59-60	5.726	639-640	6.713	653-654	7.233	481-482	7.997	662-663	7.671	657-658	8.411		
539-540	14.639	118-119	15.588	45-118	36.428	553-554	5.46	53-54	6.517	567-568	6.825	562-563	7.752	484-485	7.252	576-577	8.108		
798-799	14.622	464-465	15.395	465-550	36.2	558-559	5.383	553-554	6.301	389-390	6.608	476-477	7.449	576-577	6.831	490-491	7.607		
453-454	14.04	969-970	15.317	293-378	36.139	472-473	5.167	644-645	6.219	481-482	6.529	395-396	7.095	490-491	6.412	571-572	7.544		
120-121	13.807	893-894	15.246	292-377	35.98	467-468	5.088	467-468	6.073	218-219	5.793	390-391	6.595	398-399	6.273	827-828	7.402		
117-118	13.59	121-122	15.201	723-808	35.117	58-59	4.58	558-559	5.822	395-396	5.763	309-310	6.155	77-78	6.078	69-70	6.994		
712-713	13.47	540-541	15.137	894-979	34.649	386-387	4.558	724-725	5.601	303-304	5.717	224-225	6.081	404-405	5.559	485-486	6.976		
196-197	13.404	807-808	14.738	208-292	33.981	381-382	4.335	472-473	5.418	132-133	5.418	138-139	5.861	312-313	5.3	404-405	6.699		
549-550	13.392	207-208	14.366	626-713	33.937	215-216	4.095	381-382	5.399	224-225	4.797	219-220	5.44	227-228	5.018	399-400	6.105		
980-981	13.2	378-379	14.309	207-291	33.796	210-211	4.017	54-55	5.331	309-310	4.63	304-305	5.322	141-142	4.999	318-319	5.773		
367-368	13.043	454-455	14.118	540-627	32.858	124-125	3.844	386-387	4.724	61-62	3.92	67-68	4.508	318-319	4.876	147-148	5.341		
463-464	12.712	797-798	14.039	454-541	32.273	216-217	3.821	210-211	4.694	138-139	3.629	133-134	3.985	233-234	4.663	228-229	5.313		
45-46	12.455	883-884	14.035	368-455	32.159	295-296	3.795	295-296	4.301	1153-1154	3.146	1159-1160	3.97	147-148	4.253	741-742	5.249		
281-282	12.336	292-293	13.407	117-197	32.034	300-301	3.621	300-301	4.252	67-68	2.983	62-63	3.658	1162-1163	4.047	313-314	5.208		
894-895	12.013	721-722	13.248	367-454	31.544	903-904	3.564	215-216	4.18	991-992	2.544	1154-1155	3.169	76-77	3.529	233-234	5.195		
808-809	11.955	711-712	13.011	712-799	31.279	817-818	3.173	209-210	4.101	907-908	2.272	910-911	2.684	234-235	3.5	1168-1169	4.597		
626-627	11.212	51-52	12.689	281-368	30.736	983-984	2.628	129-130	4.068	821-822	2.019	994-995	2.588	921-922	3.459	142-143	4.415		
377-378	11.168	368-369	12.355	46-119	30.524	129-130	2.591	1151-1152	3.16	735-736	2.006	824-825	2.401	916-917	3.016	226-227	3.93		
722-723	11.158	46-47	12.138	453-540	30.225	898-899	2.357	638-639	3.127	1073-1074	2.003	1076-1077	1.85	1000-1001	2.882	71-72	3.929		
50-51	10.729	282-283	11.467	1884-1963	29.695	812-813	2.355	124-125	3.107	1159-1160	1.994	738-739	1.794	1168-1169	2.819	1163-1164	3.209		
291-292	10.637	625-626	10.797	539-626	29.602	54-55	2.242	901-902	2.809	649-650	1.69	652-653	1.19	70-71	2.769	76-77	3.186		
636-637	9.347	635-636	10.727	196-282	29.599	301-302	2.172	58-59	2.679	563-564	1.456	566-567	0.824	835-836	2.738	655-656	2.808		
540-541	9.063	197-198	10.507	282-369	29.396	1146-1147	2.137	986-987	2.664	477-478	1.276	480-481	0.565	830-831	2.73	1003-1004	2.766		
206-207	8.852	539-540	8.779	118-198	28.875	1065-1066	2.103	1146-1147	2.309	391-392	0.847	394-395	0.296	1082-1083	2.591	919-920	2.518		

累積塑性変形倍率 EW

Y18						Y19				Y20				Y21					
梁端		梁J端		トラス		梁端		梁J端		梁端		梁J端		梁端		梁J端		トラス	
1012-1013	11.333	1019-1020	11.853	1263-1346	24.33	1022-1023	10.398	1029-1030	11.052	1031-1032	9.744	1036-1037	10.331	1048-1049	20.948	1039-1040	23.733	1131-1212	63.671
1018-1019	9.978	1013-1014	10.96	1262-1345	21.142	938-939	10.21	945-946	10.826	1036-1037	8.253	1031-1032	9.675	966-967	19.963	957-958	22.687	1132-1213	53.984
928-929	9.718	929-930	10.758	1758-1675	18.586	852-853	9.749	1023-1024	10.782	953-954	7.987	948-949	9.376	1038-1039	19.426	871-872	21.05	1049-1130	52.493
934-935	9.711	849-850	10.153	1346-1264	17.019	1028-1029	9.365	939-940	10.705	1113-1114	7.412	947-948	8.688	956-957	18.63	267-268	21.008	1050-1131	48.134
842-843	9.71	935-936	10.077	1345-1263	14.417	944-945	9.344	859-860	10.377	862-863	7.309	862-863	8.558	880-881	18.412	1049-1050	20.493	871-958	42.176
1094-1095	9.151	843-844	9.998	1264-1347	13.263	766-767	9.307	773-774	9.908	948-949	7.261	1113-1114	8.168	276-277	18.183	1121-1122	19.765	1213-1296	40.015
756-757	9.107	1101-1102	9.749	1347-1265	12.672	1104-1105	8.825	853-854	9.89	181-182	7.221	1118-1119	8.129	870-871	17.717	967-968	19.582	957-1040	39.881
848-849	9.033	763-764	9.473	1673-1757	11.95	858-859	8.588	1111-1112	9.586	867-868	7.161	174-175	8.101	784-785	17.23	785-786	19.398	795-880	38.555
762-763	8.381	1095-1096	9.442	1757-1674	9.148	680-681	8.531	767-768	9.211	776-777	6.678	861-862	7.847	794-795	16.835	881-882	18.824	968-1049	38.498
670-671	8.337	757-758	9.293	1672-1756	1.891	772-773	8.024	1105-1106	9.2	1118-1119	6.671	776-777	7.726	1130-1131	16.779	795-796	18.576	882-967	38.406
1100-1101	8.166	154-155	8.871	1759-1676	1.607	594-595	7.916	687-688	9.015	781-782	6.516	867-868	7.723	1039-1040	16.085	699-700	17.064	881-966	38.128
163-164	7.882	927-928	8.664			1110-1111	7.79	601-602	8.391	263-264	6.494	953-954	7.638	698-699	15.894	709-710	17.057	451-536	37.794
584-585	7.715	677-678	8.636			508-509	7.464	681-682	8.258	690-691	5.985	259-260	7.577	1120-1121	15.601	1131-1132	16.978	537-622	37.293
676-677	7.647	671-672	8.4			686-687	7.212	251-252	8.169	695-696	5.73	781-782	7.112	708-709	15.011	1048-1049	16.68	452-537	36.874
498-499	7.238	591-592	8.081			255-256	7.12	515-516	8.019	109-110	5.725	690-691	6.699	957-958	14.902	623-624	15.743	365-450	36.487
246-247	7.162	242-243	7.987			600-601	6.84	595-596	7.771	604-605	5.469	103-104	6.518	871-872	14.689	613-614	15.692	538-623	36.1
590-591	6.848	505-506	7.601			422-423	6.61	509-510	7.364	609-610	5.417	604-605	6.334	612-613	14.513	966-967	15.315	366-451	35.989
504-505	6.309	585-586	7.547			514-515	6.452	429-430	7.104	523-524	5.095	695-696	6.225	526-527	13.891	1038-1039	15.276	796-881	35.005
412-413	6.269	841-842	7.418			250-251	5.972	423-424	6.82	518-519	5.059	518-519	5.987	622-623	13.735	441-442	15.235	967-1048	34.662
92-93	6.077	83-84	6.996			428-429	5.94	256-257	6.13	437-438	4.813	609-610	5.831	785-786	13.556	537-538	15.227	277-364	34.64
418-419	5.757	499-500	6.904			336-337	5.669	343-344	6.128	108-109	4.712	432-433	5.643	183-184	13.491	194-195	15.085	699-786	34.162
326-327	5.25	419-420	6.708			165-166	5.363	172-173	5.803	432-433	4.347	775-776	5.62	450-451	13.25	880-881	14.817	278-365	33.688
241-242	5.096	413-414	6.309			342-343	3.995	337-338	4.621	259-260	4.114	104-105	5.582	266-267	13.202	112-113	14.148	613-700	33.147
155-156	4.929	333-334	5.718			94-95	3.918	101-102	4.495	264-265	3.821	523-524	5.425	1049-1050	13.148	277-278	14.138	527-614	32.646
332-333	4.106	162-163	5.277			171-172	3.165	1193-1194	3.957	346-347	3.76	437-438	4.744	440-441	12.848	451-452	14.087	441-528	32.627
1176-1177	4.044	247-248	5.269			100-101	3.147	95-96	3.814	175-176	3.718	263-264	4.253	536-537	12.404	956-957	13.989	111-184	32.36
161-162	3.709	755-756	5.262			1186-1187	3.144	166-167	3.398	954-955	3.569	351-352	4.224	114-115	12.297	870-871	13.986	183-267	31.721
90-91	3.655	1183-1184	4.582			1024-1025	2.549	1187-1188	3.168	868-869	3.176	258-259	4.102	354-355	12.21	527-528	13.442	785-872	31.443
248-249	3.498	327-328	4.471			940-941	2.276	943-944	2.685	351-352	3.006	180-181	4.034	967-968	11.953	794-795	13.34	440-527	31.281
936-937	3.465	85-86	4.064			854-855	2.023	1027-1028	2.588	1032-1033	2.642	346-347	3.564	881-882	11.883	365-366	13.268	354-441	30.398
930-931	3.016	240-241	3.936			768-769	2.01	857-858	2.4	949-950	2.343	1200-1201	3.16	699-700	11.308	784-785	12.95	355-442	30.058
1014-1015	2.88	156-157	3.8			1106-1107	2.002	1109-1110	1.849	180-181	2.295	689-690	3.143	795-796	11.074	115-116	12.604	526-613	30.036
1182-1183	2.817	1177-1178	3.208			1192-1193	1.998	771-772	1.791	104-105	2.249	952-953	2.795	111-112	10.864	708-709	10.826	1951-2030	29.705
84-85	2.769	91-92	3.178			682-683	1.689	685-686	1.189	352-353	2.171	108-109	2.682	709-710	9.253	698-699	10.729	612-699	29.456
850-851	2.743	669-670	2.82			596-597	1.467	599-600	0.822	1195-1196	2.136	1035-1036	2.669	613-614	9.198	612-613	8.7	266-355	29.168
844-845	2.732	1017-1018	2.764			510-511	1.251	513-514	0.549	1114-1115	2.113	175-176	2.542	527-528	7.813	622-623	8.614	112-185	28.849
1096-1097	2.59	933-934	2.516			424-425	0.993	427-428	0.318	863-864	2.074	866-867	2.51	623-624	7.619	1203-1204	8.045	267-356	28.697

累積塑性変形倍率 NS

X2						X4						X8						X10					
梁端	梁端	梁端	トラス	トラス	トラス	梁端	梁端	梁端	トラス	トラス	トラス	梁端	梁端	梁端	トラス	トラス	トラス	梁端	梁端	梁端	トラス	トラス	トラス
1722-1729	12.663	1722-1729	14.666	326-422	37.255	1807-1815	20.929	1807-1815	20.023	305-400	36.957	1811-1819	20.948	1727-1735	20.563	309-404	37.074	1728-1736	13.068	1728-1736	15.166	334-430	37.255
1764-1773	12.561	1764-1773	14.427	241-336	37.109	1723-1731	19.352	1766-1774	19.955	198-296	36.546	1727-1735	19.371	1770-1778	20.474	224-318	36.634	1772-1779	13.032	1772-1779	14.965	248-344	37.108
1680-1689	12.543	1680-1689	14.182	259-354	30.806	1846-1854	17.605	1723-1731	19.95	220-314	36.543	1770-1778	18.405	1850-1858	19.768	206-300	36.519	1688-1695	13.019	1688-1695	14.668	264-366	30.818
295-303	12.3	1640-1647	13.891	412-508	30.739	1766-1774	17.452	1846-1854	19.165	283-382	35.63	1745-1750	18.223	1750-1760	19.494	291-386	35.575	301-310	12.428	1646-1654	14.356	420-516	30.735
1640-1647	11.634	336-346	13.007	346-440	29.335	1641-1649	17.42	1641-1649	18.325	134-229	33.282	1850-1858	17.704	1811-1819	19.264	138-233	33.329	1646-1654	12.014	344-352	13.018	352-452	29.347
381-389	11.574	422-432	12.208	175-266	28.329	1887-1895	16.65	1682-1690	18.031	391-486	31.846	1645-1653	17.39	1686-1694	18.343	1653-1745	32.448	387-396	11.743	430-438	12.22	181-278	28.34
210-218	10.559	295-303	11.876	155-250	24.957	1682-1690	15.883	1887-1895	16.923	1682-1755	31.37	1891-1899	16.633	1645-1653	18.066	395-490	31.993	216-225	10.659	301-310	12.004	163-257	24.948
336-346	10.461	250-259	11.298	432-526	21.945	1967-1975	14.833	1926-1934	16.093	1649-1740	31.344	1686-1694	16.041	1891-1899	16.939	1686-1760	31.819	344-352	10.469	257-264	11.315	1678-1772	21.958
467-475	10.161	381-389	10.894	1670-1764	21.837	1926-1934	14.495	1967-1975	15.753	369-468	27.377	1930-1938	15.081	1930-1938	16.771	377-472	27.315	473-482	10.362	1812-1820	11.092	438-538	21.956
422-432	9.363	508-518	10.81	498-594	20.545	2006-2014	12.803	2006-2014	14.751	1629-1723	26.389	1971-1979	14.832	1971-1979	15.657	1637-1727	26.47	430-438	9.373	387-396	11.061	506-602	20.541
250-259	8.833	1806-1813	10.721	1656-1729	19.915	2047-2055	12.29	2047-2055	13.331	1698-1774	24.839	2010-2018	13.212	2010-2018	15.409	1706-1778	24.884	1852-1859	9.204	516-524	10.821	1663-1736	19.407
1845-1853	8.741	210-218	10.17	1689-1780	15.258	338-347	10.961	2086-2094	12.487	119-211	22.862	2051-2059	12.33	2051-2059	13.391	120-215	22.964	1812-1820	8.847	1852-1859	10.559	1695-1792	15.236
1806-1813	8.458	1845-1853	10.058	227-303	13.654	424-433	10.87	338-347	12.019	477-572	22.54	342-351	10.958	2090-2098	13.014	481-576	22.69	257-264	8.836	216-225	10.264	234-310	13.616
508-518	8.144	467-475	9.771	312-389	13.46	296-305	10.791	424-433	11.996	1600-1672	16.132	428-437	10.867	342-351	12.021	1604-1676	16.481	1932-1939	8.184	473-482	9.974	319-396	13.459
1738-1748	7.875	1598-1607	9.413	124-196	12.927	382-391	10.653	296-305	11.633	1567-1658	14.617	2090-2098	10.763	428-437	11.997	1571-1662	15.607	516-524	8.154	1606-1613	9.792	130-208	12.944
1925-1933	7.692	594-604	8.52	398-475	12.85	2086-2094	10.43	382-391	11.478	338-414	13.915	300-309	10.646	300-309	11.504	342-418	13.9	1746-1751	8.002	1564-1572	8.654	405-482	12.814
1598-1607	7.657	1558-1565	8.431	295-367	12.354	1559-1567	9.477	1600-1608	10.406	424-500	13.381	386-395	10.512	386-395	11.329	1735-1828	13.815	1606-1613	7.897	1892-1900	8.591	301-379	12.403
553-561	7.642	1748-1753	8.431	1588-1680	12.213	510-519	9.052	1559-1567	10.199	252-328	13.225	1563-1571	9.489	1604-1612	10.615	428-504	13.405	559-568	7.88	602-610	8.533	1596-1688	12.26
1558-1565	7.455	1886-1893	8.309	141-218	11.952	468-477	8.747	510-519	10.065	1731-1824	13.222	514-523	9.047	1563-1571	10.169	653-748	13.332	1564-1572	7.835	1751-1762	8.484	148-225	11.926
1656-1665	7.27	1665-1670	7.945	210-281	11.859	2127-2135	8.716	2127-2135	9.904	356-433	13.063	2131-2139	8.756	514-523	10.065	739-834	13.229	2092-2099	7.574	1932-1939	8.162	216-293	11.906
2085-2093	7.051	1925-1933	7.761	1640-1709	11.557	252-260	8.337	468-477	9.696	735-830	12.784	472-481	8.625	2131-2139	9.989	255-332	13.224	1663-1668	7.458	1668-1678	7.979	1646-1721	11.56
1886-1893	6.911	553-561	7.645	518-612	11.001	211-220	8.072	252-260	9.366	649-744	12.671	255-263	8.333	472-481	9.566	364-437	13.065	2012-2019	7.336	2092-2099	7.888	524-624	11.012
2005-2013	6.905	2046-2053	7.645	381-453	10.9	1600-1608	7.96	211-220	9.033	1547-1641	12.669	1604-1612	8.186	255-263	9.374	1555-1645	12.713	1892-1900	6.973	559-568	7.814	387-465	10.944
2046-2053	6.26	1966-1973	7.251	84-165	10.01	2166-2174	7.443	2166-2174	8.697	268-347	12.407	215-224	8.057	2170-2178	8.997	276-351	12.405	2052-2060	6.273	2052-2060	7.691	92-173	10.011
594-604	6.249	2085-2093	7.201	1574-1647	9.752	1740-1749	6.78	596-605	7.869	455-554	12.125	2170-2178	7.545	215-224	8.936	463-558	12.096	602-610	6.258	2012-2019	7.235	1581-1654	9.432
1966-1973	6.221	165-175	6.743	467-539	7.685	596-605	6.725	554-563	7.508	442-519	12.066	600-609	6.723	600-609	7.871	450-523	12.064	1829-1834	6.218	1972-1980	7.217	473-551	7.775
1822-1831	6.052	2005-2013	6.69	1753-1845	7.657	554-563	6.673	167-176	7.462	47-125	12.011	1662-1667	6.692	171-180	7.463	50-129	11.96	1972-1980	6.201	173-181	6.751	1762-1852	7.769
124-132	5.866	1831-1836	6.609	584-680	7.295	1658-1666	6.484	1749-1755	7.22	1766-1837	11.542	558-567	6.542	558-567	7.365	1489-1580	11.752	130-139	5.915	1834-1843	6.649	592-688	7.338
639-647	5.413	680-690	6.342	670-766	7.089	125-134	6.119	125-134	6.997	1485-1576	11.512	1828-1833	6.398	1833-1841	7.013	1770-1841	11.698	2172-2179	5.667	688-696	6.352	678-774	7.103
1574-1583	5.251	124-132	6.207	1822-1893	7.064	167-176	6.107	1832-1837	6.656	167-243	11.324	171-180	6.107	129-138	6.92	171-246	11.327	645-654	5.573	130-139	6.266	850-946	6.644
2165-2173	5.221	639-647	5.659	842-938	6.639	1824-1832	6.091	1666-1672	6.514	185-260	11.015	1481-1489	6.057	1667-1676	6.718	193-263	11.007	1581-1586	5.277	645-654	5.831	491-568	6.561
1902-1911	5.101	1911-1916	5.655	484-561	6.598	1477-1485	6.07	1477-1485	6.411	1616-1690	9.729	129-138	6.026	1522-1530	6.51	514-590	10.722	1909-1914	5.267	1914-1923	5.696	764-860	6.522
165-175	4.873	2126-2133	5.334	1738-1813	6.554	1904-1912	5.558	1518-1526	6.329	1518-1590	9.076	1522-1530	5.134	1481-1489	6.353	1624-1694	9.758	2069-2074	5.063	1524-1531	5.521	1829-1900	6.495
2062-2071	4.869	1583-1588	5.292	756-852	6.509	2064-2072	5.193	1912-1917	6.107	1403-1494	8.777	1908-1913	5.082	1913-1921	5.687	1522-1594	9.218	173-181	4.881	1586-1596	5.339	1613-1708	6.348
1516-1525	4.539	1516-1525	5.234	1607-1696	6.37	1518-1526	5.078	1992-1997	5.423	1815-1904	8.654	2068-2073	4.848	686-695	5.307	1407-1498	9.161	1524-1531	4.694	2132-2140	5.303	782-882	6.3
1476-1483	4.401	2071-2076	5.146	776-870	6.296	1984-1992	4.979	2072-2077	5.354	2006-2077	8.638	2211-2219	4.809	1993-2001	5.234	1819-1908	9.096	1482-1490	4.665	2074-2083	5.203	1746-1820	6.176
725-733	4.25	766-776	5.108	570-647	5.831	2207-2215	4.721	682-691	5.31	821-916	8.148	1988-1993	4.732	2073-2081	5.078	2010-2081	8.574	731-740	4.411	2172-2179	5.186	577-654	5.734