



Food and Agriculture
Organization of the
United Nations



Funded by
the European Union



Strengthening Plant Health Services in Tanzania for Enhanced Food Safety
(STREPHIT)

Detection survey for *Xylella fastidiosa* in the United republic of Tanzania

FOREWORD

The Tanzania Plant Health and Pesticides Authority regularly conducts surveillance of plant pests and diseases with the aim of curbing spread, mitigating damage and, whenever possible, eradication. To ascertain the country's freedom from the noxious bacteria *Xylella fastidiosa*, a national detection survey was conducted. The current report presents methods and results of the survey. As of 21st August 2023, the country is declared to be free from *Xylella fastidiosa*. To maintain the status, the NPPO will conduct regular qPCR testing of incoming consignments of plant materials for planting of hosts that are susceptible to the bacteria.

The survey was done with the support of the Food and Agriculture Organization (FAO) through the project "Strengthening Plant Health Services in Tanzania for Enhanced Food Safety (STREPHIT)". The project is funded by the European Union along with contributions from FAO and the Government of the United Republic of Tanzania.

i. Survey design:

The survey was conducted countrywide in different agro-ecological zones (blocks) with sampling focusing on main hosts (of trade importance and natural habitat) and abundant vectors of the pest present in the locale. The zones are defined in the map below (*Figure 1*).



Figure 1 Agroecological blocks for *Xylella fastidiosa* survey

Target hosts from which samples were drawn per agroecological zone is depicted in table below:

Zone	Commercial (Exports to the EU)	Other main hosts
Northern zone	Avocado, Coffee, Chrysanthemum flowers	Citrus spp.
Lake zone	Avocado, Coffee	Citrus spp.
Central zone	Tobacco	Citrus spp.
Coastal zone	Solanaceae family (Tomato, eggplant)	Citrus spp.
Southern highlands	Avocado, Coffee, Tobacco	Citrus spp.

Other hosts considered were extracted from the EFSA (European Food Safety Authority) host database for *Xylella fastidiosa*.

ii. Sampling design

The design is meant to achieve a confidence level of 95% with key detection method being qPCR. Since host population size per agro-ecological zone is not documented, selection of sampling sites was random, depending on pre-analysis. Since *Xylella fastidiosa* is not known to occur, the design prevalence for this survey was 1%.

The inspection units were the host plants and were evaluated per 2 ha per district. In each district, random fields with host plants were sampled accordingly. This included agricultural areas, forest areas and urban areas.

In districts with more than three fields of a specific host plant, not less than 50m apart, of less than or equal to 2 ha, three fields were inspected. If less than three fields were available, all existing fields of the respective hosts were inspected, regardless of the size. For commercial production sites for export markets, all were inspected and given a traceability code. A database with status of *Xylella fastidiosa* for these sites was developed.

Sampling in fields of ≤ 2 ha followed a "W" pattern with 7 stations where 5 samples of the host plant were collected per station (35 samples per 2 ha). Fields with more than 2ha were divided into 2ha blocks and each block was sampled using the same pattern. The sampling effectiveness for this method deployed is **0.70**.



Figure 2 Scouting trek

iii. Sampling

Sample collection was in accordance with ISPM 27, Annex 25 (DP25 – *Xylella fastidiosa*). Plant part target were the midribs and petioles. Number/weight of leaves per sample will was 5/0.5-1g for large leaves, 25/0.5-1g for small leaves with petioles and midribs; 25/0.5-1g for species without petioles/midribs. For dormant or plant cuttings, the xylem tissue was sampled. Samples were stored in microfuge tubes kept in cold conditions (4°C) before freezing in -20°C at the laboratory.

iv. Data collection

All samples were georeferenced. Data included Region, District, GPS Coordinates, Host plant, Sample type (plant part sampled), Sample ID and lab result. This data was collected using *KoboToolBox*. The web form versions were shared with lab analysts for recording of lab results (Enketo web form) for each sample. Data collection tool (enketo form) can be accessed via link below:

Toolkit 1: <https://ee.humanitarianresponse.info/x/IMHOLh0H>

v. Molecular diagnosis

Molecular analysis was conducted in accordance to ISPM 27 Annex 25, using the protocol for DNA extraction and Real time PCR provided (Li et al, 2013)¹. The analysis was done at the Tanzania Agriculture Research Institutes Molecular Biology Laboratory in Mikocheni, Dar es Salaam.

vi. Workplan

1. The experts met in Arusha for 5 days where they:
 - i. Developed a Work Plan and a Questionnaire for conducting the surveillance and sampling protocol
 - ii. Trained on how to use the Kobo Collect Mobile App for collection of intended information
2. The team of expert was divided in 4 groups where they will conduct the surveillance by collecting the samples and the intended information in their designated regions for 14 days
3. Samples were submitted to the lab for lab diagnostics for 5 days
4. The team of experts reconvened in Arusha for 4 days to compile the report and submit to the EU

¹ <https://www.sciencedirect.com/science/article/abs/pii/S0167701212003417?via%3Dihub>

RESULTS

Population size: 767,704

Number of samples inspected: 313,348

Number of samples collected : 3,155

Potential hosts sampled: Coffee, Grapes, Tomato, Avocado, Flowers, Eggplant, Sweet oranges, Tangerine

Coverage:

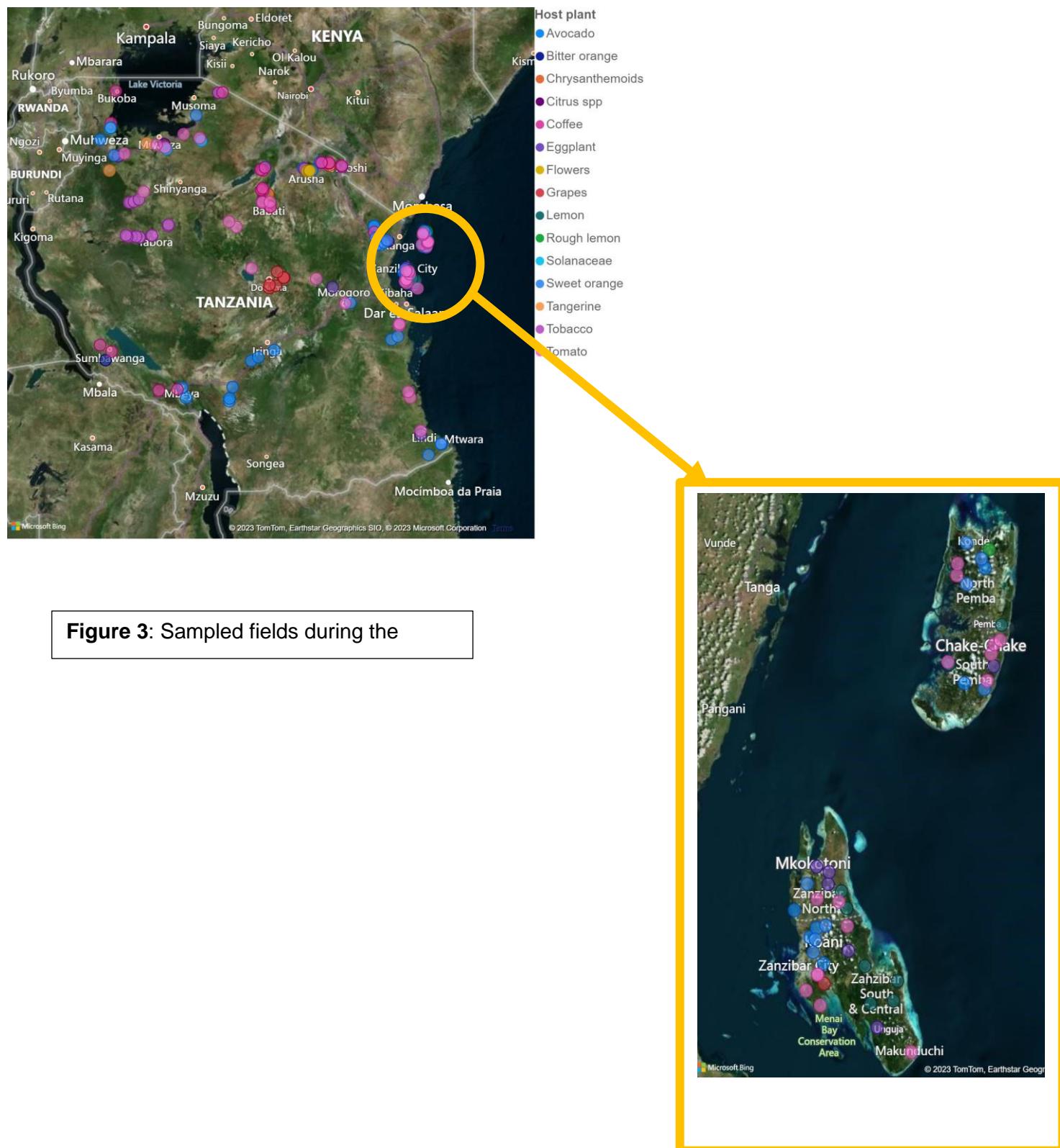




Image plate 1: Plants in the field considered for sampling and transportation to the laboratory for molecular diagnosis

qPCR results

All analyzed samples were found to be negative

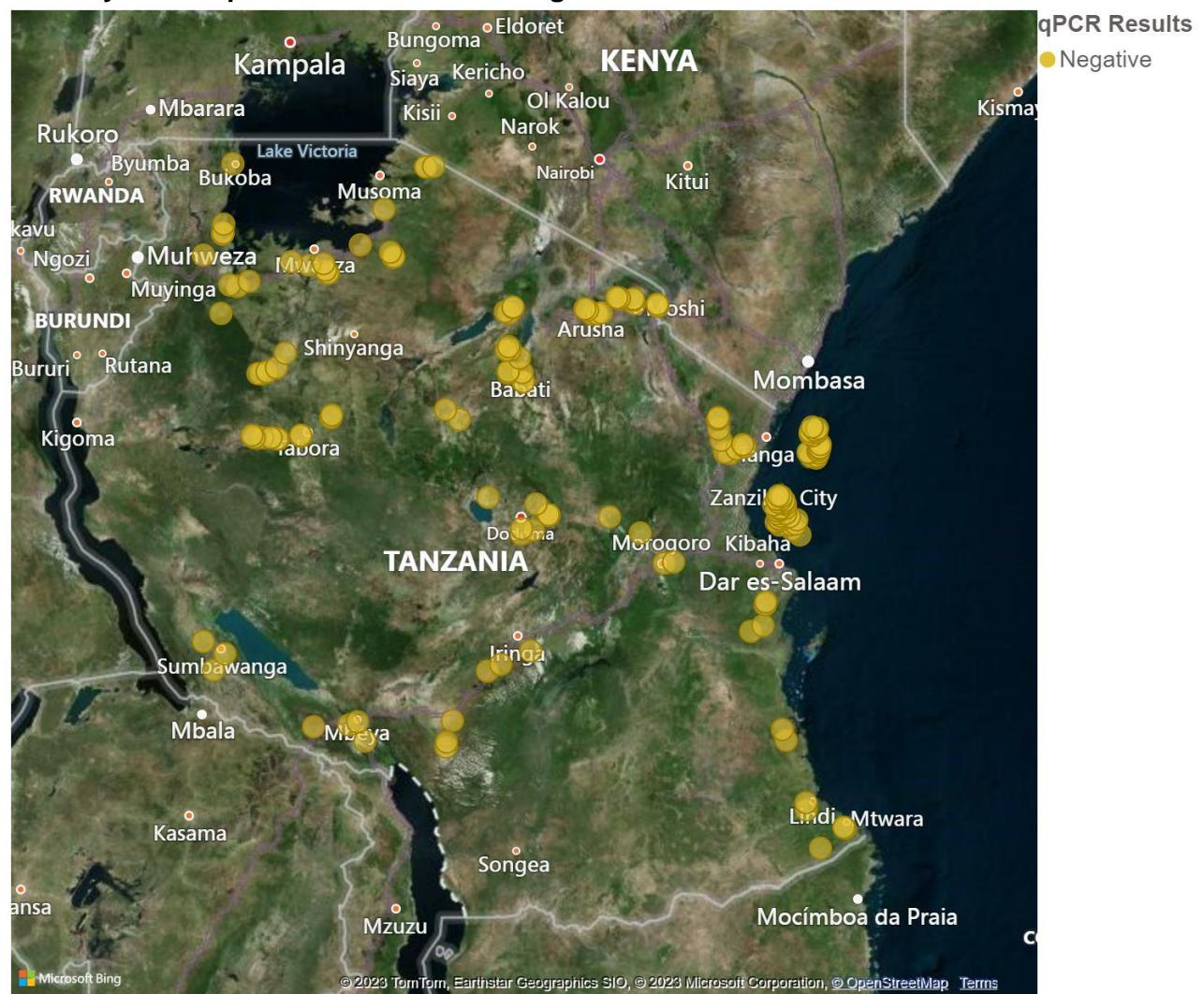


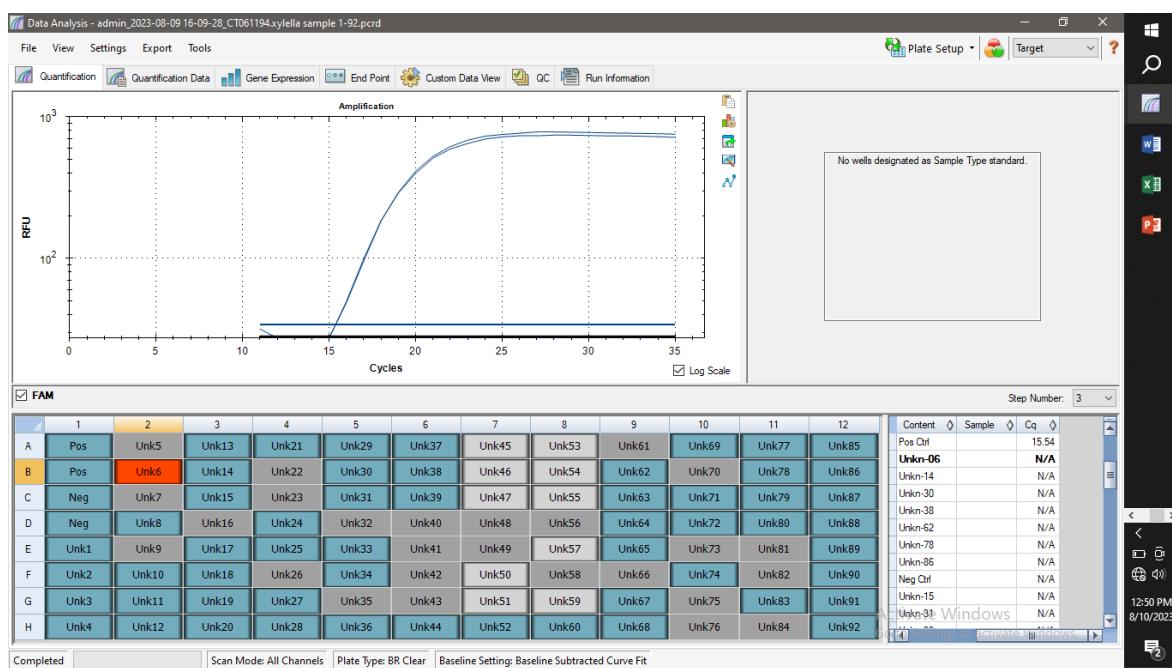
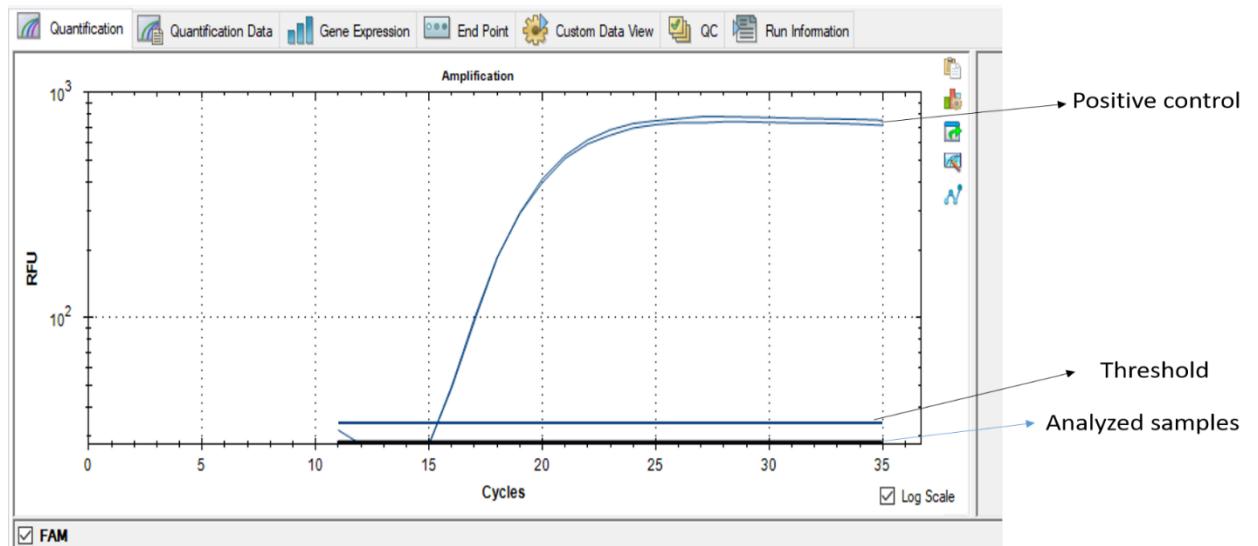
Table 1. PEST STATUS IN COMMERCIAL PRODUCTION SITES TO EXPORTING (or EXPECTING TO EXPORT) TO THE EUROPEAN UNION

NAME OF SITE OWNER (Personal or business name)	Production site ID	latitude	longitude	Host plant	PEST STATUS
CHABUMA AMCOS	DODCH01	-6.139757	36.113786	Grapes	Absent
EDMUND FARM	DODCH04	-5.9939064	35.942038	Grapes	Absent
Chesco Mdeka	IRAKL01	-7.9907913	35.867035	Avocado	Absent
Mabeli Iddi Masasi	IRARU02	-8.1734707	35.458325	Avocado	Absent
J.Mark avocado farm	IRAMF03	-8.2632834	35.27527	Avocado	Absent
Rivacu farm	MANBAD02	-4.1839274	35.559623	Coffee	Absent
Zanubia seeds	MANBAD03	-4.002525	35.714823	Flowers	Absent
Nyakabindi hub	SIMBA01	-2.6185615	33.992614	Eggplant	Absent
Mogabiri farmer extension centre	MARTA02	-1.3881611	34.429568	Coffee	Absent
MOGABIRI EXTENSION CENTRE	MARTA01	-1.3885196	34.431163	Avocado	Absent
Tingatinga Estates Ltd	ARUKA01	-3.388657	35.570307	Coffee	Absent
Adventous big five Estate	ARUKA02	-3.366694	35.518053	Coffee	Absent
Karatu coffee Estate Ltd	ARUKA03	-3.3065332	35.625623	Avocado	Absent
Multiflower Ltd	ARUARC01	-3.4027872	36.709463	Flowers	Absent
Fides Tanzania Ltd	ARUME01	-3.3963	36.779079	Flowers	Absent
Fides Tanzania Ltd	ARUME02	-3.39908	36.777263	Flowers	Absent
Aga Khan farm	ARUARD02	-3.3283773	36.612283	Avocado	Absent
Karatu coffee Estate Ltd	ARUKA04	-3.3127124	35.626654	Coffee	Absent
Shikamoo parachichi company limited	NJOWG05	-9.2238493	34.715906	Avocado	Absent
HUMUD SALUM SULEIMAN	MKPWWT02	-5.0387519	39.696784	Tomato	Absent
GADIOLA	LINKI01	-9.0547358	39.316354	Tomato	Absent
IBRAHIM	LINKI02	-9.2011769	39.369151	Tomato	Absent
DISMAS	LINLI02	-10.139037	39.642983	Tomato	Absent
NAMMINULA	MTWMT01	-10.374063	40.158315	Sweet oranges	Absent
NAMMINULA	MTWMT02	-10.388246	40.177413	Sweet oranges	Absent
NAMMINULA	MTWMT03	-10.655445	39.838618	Sweet oranges	Absent

*Laboratory results for each sample collected at the production site can be found in ANNEX I. Relevant samples can be traced using the Production site ID.

ANNEX I: LABORATORY RESULTS FOR ALL SAMPLES COLLECTED DURING THE SURVEY

Results for the detection of *X. fastidiosa* using qPCR



Amplification plot, plate setting and Ct value.

SN	SAMPLE ID	qPCR Test results	SN	SAMPLE ID	qPCR Test results
1	DODCH0101	Negative	1575	TANLU0105	Negative
2	DODCH0102	Negative	1576	TANLU0106	Negative
3	DODCH0103	Negative	1577	TANLU0107	Negative
4	DODCH0104	Negative	1578	TANLU0108	Negative
5	DODCH0105	Negative	1579	TANLU0109	Negative
6	DODCH0106	Negative	1580	TANLU0110	Negative
7	DODCH0107	Negative	1581	TANLU0111	Negative
8	DODCH0108	Negative	1582	TANLU0112	Negative
9	DODCH0109	Negative	1583	TANLU0113	Negative
10	DODCH0110	Negative	1584	TANLU0114	Negative
11	DODCH0111	Negative	1585	TANLU0115	Negative
12	DODCH0112	Negative	1586	TANLU0116	Negative
13	DODCH0113	Negative	1587	TANLU0117	Negative
14	DODCH0114	Negative	1588	TANLU0118	Negative
15	DODCH0115	Negative	1589	TANLU0119	Negative
16	DODCH0116	Negative	1590	TANLU0120	Negative
17	DODCH0117	Negative	1591	TANLU0121	Negative
18	DODCH0118	Negative	1592	TANLU0122	Negative
19	DODCH0119	Negative	1593	TANLU0123	Negative
20	DODCH0120	Negative	1594	TANLU0124	Negative
21	DODCH0121	Negative	1595	TANLU0125	Negative
22	DODCH0122	Negative	1596	TANLU0126	Negative
23	DODCH0123	Negative	1597	TANLU0127	Negative
24	DODCH0124	Negative	1598	TANLU0128	Negative
25	DODCH0125	Negative	1599	TANLU0129	Negative
26	DODCH0126	Negative	1600	TANLU0130	Negative
27	DODCH0127	Negative	1601	TANLU0201	Negative
28	DODCH0128	Negative	1602	TANLU0202	Negative
29	DODCH0129	Negative	1603	TANLU0203	Negative
30	DODCH0130	Negative	1604	TANLU0204	Negative
31	DODCH0201	Negative	1605	TANLU0205	Negative
32	DODCH0202	Negative	1606	TANLU0206	Negative
33	DODCH0203	Negative	1607	TANLU0208	Negative
34	DODCH0204	Negative	1608	TANLU0209	Negative
35	DODCH0205	Negative	1609	TANLU0210	Negative
36	DODCH0206	Negative	1610	TANLU0211	Negative
37	DODCH0207	Negative	1611	TANLU0212	Negative
38	DODCH0208	Negative	1612	TANLU213	Negative
39	DODCH0209	Negative	1613	TANLU0214	Negative
40	DODCH0210	Negative	1614	TANLU0215	Negative
41	DODCH0211	Negative	1615	TANLU0216	Negative
42	DODCH0212	Negative	1616	TANLU0217	Negative
43	DODCH0213	Negative	1617	TANLU0218	Negative
44	DODCH0214	Negative	1618	TANLU0219	Negative
45	DODCH0215	Negative	1619	TANLU0220	Negative
46	DODCH0216	Negative	1620	TANLU0221	Negative

47	DODCH0217	Negative	1621	TANLU0222	Negative
48	DODCH0218	Negative	1622	TANLU0223	Negative
49	DODCH0219	Negative	1623	TANLU0224	Negative
50	DODCH0220	Negative	1624	TANLU0225	Negative
51	DODCH0221	Negative	1625	TANLU0226	Negative
52	DODCH0222	Negative	1626	TANLU0227	Negative
53	DODCH0223	Negative	1627	TANLU0228	Negative
54	DODCH0224	Negative	1628	TANLU0229	Negative
55	DODCH0225	Negative	1629	TANLU0230	Negative
56	DODCH0226	Negative	1630	TANLU0301	Negative
57	DODCH0227	Negative	1631	TANLU0302	Negative
58	DODCH0228	Negative	1632	TANLU0303	Negative
59	DODCH0229	Negative	1633	TANLU0304	Negative
60	DODCH0230	Negative	1634	TANLU0305	Negative
61	DODCH0301	Negative	1635	TANLU0306	Negative
62	DODCH0302	Negative	1636	TANLU0307	Negative
63	DODCH0303	Negative	1637	TANLU0308	Negative
64	DODCH0304	Negative	1638	TANLU0309	Negative
65	DODCH0305	Negative	1639	TANLU0310	Negative
66	DODCH0306	Negative	1640	TANLU0311	Negative
67	DODCH0307	Negative	1641	TANLU0312	Negative
68	DODCH0308	Negative	1642	TANLU0313	Negative
69	DODCH0309	Negative	1643	TANLU0314	Negative
70	DODCH0310	Negative	1644	TANLU0315	Negative
71	DODCH0311	Negative	1645	TANLU0316	Negative
72	DODCH0313	Negative	1646	TANLU0317	Negative
73	DODCH0314	Negative	1647	TANLU0318	Negative
74	DODCH0315	Negative	1648	TANLU0319	Negative
75	DODCH0316	Negative	1649	TANLU0320	Negative
76	DODCH0317	Negative	1650	TANLU0321	Negative
77	DODCH0318	Negative	1651	TANLU0322	Negative
78	DODCH0319	Negative	1652	TANLU0323	Negative
79	DODCH0320	Negative	1653	TANLU0324	Negative
80	DODCH0321	Negative	1654	TANLU0325	Negative
81	DODCH0322	Negative	1655	TANLU0326	Negative
82	DODCH0324	Negative	1656	TANLU0327	Negative
83	DODCH0325	Negative	1657	TANLU0328	Negative
84	DODCH0326	Negative	1658	TANLU0329	Negative
85	DODCH0327	Negative	1659	TANLU0330	Negative
86	DODCH0328	Negative	1660	TANKO0101	Negative
87	DODCH0329	Negative	1661	TANKO0102	Negative
88	DODCH0330	Negative	1662	TANKO0103	Negative
89	DODCH0401	Negative	1663	TANKO0104	Negative
90	DODCH0402	Negative	1664	TANKO0105	Negative
91	DODCH0403	Negative	1665	TANKO0106	Negative
92	DODCH0404	Negative	1666	TANKO0107	Negative
93	DODCH0405	Negative	1667	TANKO0108	Negative

94	DOD0406	Negative	1668	TANKO0109	Negative
95	DODCH0407	Negative	1669	TANKO0110	Negative
96	DODCH0408	Negative	1670	TANKO0111	Negative
97	DODCH0409	Negative	1671	TANKO0112	Negative
98	DODCH0410	Negative	1672	TANKO0113	Negative
99	DODCH0411	Negative	1673	TANKO0114	Negative
100	DODCH0412	Negative	1674	TANKO0115	Negative
101	DODCH0413	Negative	1675	TANKO0116	Negative
102	DODCH0414	Negative	1676	TANKO0117	Negative
103	DODCH0415	Negative	1677	TANKO0118	Negative
104	DODCH0416	Negative	1678	TANKO0119	Negative
105	DODCH0417	Negative	1679	TANKO0120	Negative
106	DODCH0418	Negative	1680	TANKO0121	Negative
107	DODCH0419	Negative	1681	TANKO0122	Negative
108	DODCH0420	Negative	1682	TANKO0123	Negative
109	DODCH0421	Negative	1683	TANKO0124	Negative
110	DODCH0422	Negative	1684	TANKO0125	Negative
111	DODCH0423	Negative	1685	TANKO0126	Negative
112	DODCH0424	Negative	1686	TANKO0127	Negative
113	DODCH0425	Negative	1687	TANKO0128	Negative
114	DODCH0426	Negative	1688	TANKO0129	Negative
115	DODCH0427	Negative	1689	TANKO0130	Negative
116	DODCH0428	Negative	1690	TANKO0201	Negative
117	DODCH0429	Negative	1691	TANKO0202	Negative
118	DODCH0430	Negative	1692	TANKO0203	Negative
119	IRAKL0101	Negative	1693	TANKO0204	Negative
120	IRAKL0102	Negative	1694	TANKO0205	Negative
121	IRAKL0103	Negative	1695	TANKO0206	Negative
122	IRAKL0104	Negative	1696	TANKO0207	Negative
123	IRAKL0105	Negative	1697	TANKO0208	Negative
124	IRAKL0106	Negative	1698	TANKO0209	Negative
125	IRAKL0107	Negative	1699	TANKO0210	Negative
126	IRAKL0108	Negative	1700	TANKO0211	Negative
127	IRAKL0109	Negative	1701	TANKO0212	Negative
128	IRAKL0110	Negative	1702	TANKO0213	Negative
129	IRAKL0111	Negative	1703	TANKO0214	Negative
130	IRAKL0112	Negative	1704	TANKO0215	Negative
131	IRAKL0113	Negative	1705	TANKO0216	Negative
132	IRAKL0115	Negative	1706	TANKO0217	Negative
133	IRAKL0116	Negative	1707	TANKO0218	Negative
134	IRAKL0117	Negative	1708	TANKO0219	Negative
135	IRAKL0118	Negative	1709	TANKO0220	Negative
136	IRAKL0119	Negative	1710	TANKO0221	Negative
137	IRAKL0120	Negative	1711	TANKO0222	Negative
138	IRAKL0121	Negative	1712	TANKO0223	Negative
139	IRAKL0122	Negative	1713	TANKO0224	Negative
140	IRAKL0123	Negative	1714	TANKO0225	Negative

141	IRAKL0124	Negative	1715	TANKO0226	Negative
142	IRAKL0125	Negative	1716	TANKO0227	Negative
143	IRAKL0126	Negative	1717	TANKO2228	Negative
144	IRAKL0127	Negative	1718	TANKO0229	Negative
145	IRAKL0128	Negative	1719	TANKO0230	Negative
146	IRAKL0129	Negative	1720	TANKO0301	Negative
147	IRAKL0130	Negative	1721	TANKO0302	Negative
148	IRAKL0131	Negative	1722	TANKO0303	Negative
149	IRAKL0132	Negative	1723	TANKO0304	Negative
150	IRAKL0133	Negative	1724	TANKO0305	Negative
151	IRAKL0134	Negative	1725	TANKO0306	Negative
152	IRAKL0135	Negative	1726	TANKO0307	Negative
153	IRARU0201	Negative	1727	TANKO0308	Negative
154	IRARU0202	Negative	1728	TANKO0309	Negative
155	IRARU0203	Negative	1729	TANKO0310	Negative
156	IRARU0204	Negative	1730	TANKO0311	Negative
157	IRARU0205	Negative	1731	TANKO0312	Negative
158	IRARU0206	Negative	1732	TANKO0313	Negative
159	IRARU0207	Negative	1733	TANKO0314	Negative
160	IRARU0208	Negative	1734	TANKO0315	Negative
161	IRARU0209	Negative	1735	TANKO0316	Negative
162	IRARU0210	Negative	1736	TANKO0317	Negative
163	IRARU0211	Negative	1737	TANKO0318	Negative
164	IRARU0212	Negative	1738	TANKO0319	Negative
165	IRARU0213	Negative	1739	TANKO0320	Negative
166	IRARU0214	Negative	1740	TANKO0321	Negative
167	IRARU0215	Negative	1741	TANKO0322	Negative
168	IRARU0216	Negative	1742	TANKO0323	Negative
169	IRARU0217	Negative	1743	TANKO0324	Negative
170	IRARU0218	Negative	1744	TANKO0325	Negative
171	IRARU0219	Negative	1745	TANKO0326	Negative
172	IRARU0220	Negative	1746	TANKO0327	Negative
173	IRARU0221	Negative	1747	TANKO0328	Negative
174	IRARU0222	Negative	1748	TANKO0329	Negative
175	IRARU0223	Negative	1749	TANKO0330	Negative
176	IRARU0224	Negative	1750	TABUY0301	Negative
177	IRARU0225	Negative	1751	TABUY0302	Negative
178	IRARU0226	Negative	1752	TABUY0303	Negative
179	IRARU0227	Negative	1753	TABUY0304	Negative
180	IRARU0228	Negative	1754	TABUY0305	Negative
181	IRARU0229	Negative	1755	TABUY0306	Negative
182	IRARU0230	Negative	1756	TABUY0307	Negative
183	IRARU0231	Negative	1757	TABUY0308	Negative
184	IRARU0232	Negative	1758	TABUY0309	Negative
185	IRARU0233	Negative	1759	TABUY0310	Negative
186	IRARU0234	Negative	1760	TABUY0311	Negative
187	IRARU0235	Negative	1761	TABUY0312	Negative

188	IRAMF0301	Negative	1762	TABUY0313	Negative
189	IRAMF0302	Negative	1763	TABUY0314	Negative
190	IRAMF0303	Negative	1764	TABUY0315	Negative
191	IRAMF0304	Negative	1765	TABUY0316	Negative
192	IRAMF0305	Negative	1766	TABUY0317	Negative
193	IRAMF0306	Negative	1767	TABUY0318	Negative
194	IRAMF0307	Negative	1768	TABUY0319	Negative
195	IRAMF0308	Negative	1769	TABUY0320	Negative
196	IRAMF0309	Negative	1770	TABUY0321	Negative
197	IRAMF0310	Negative	1771	TABUY0322	Negative
198	IRAMF0311	Negative	1772	TABUY0323	Negative
199	IRAMF0312	Negative	1773	TABUY0324	Negative
200	IRAMF0313	Negative	1774	TABUY0325	Negative
201	IRAMF0314	Negative	1775	TABUY0326	Negative
202	IRAMF0315	Negative	1776	TABUY0327	Negative
203	IRAMF0316	Negative	1777	TABUY0328	Negative
204	IRAMF0317	Negative	1778	TABUY0329	Negative
205	IRAMF0318	Negative	1779	TABUY0330	Negative
206	IRAMF0319	Negative	1780	TABUY0401	Negative
207	IRAMF0320	Negative	1781	TABUY0402	Negative
208	IRAMF0321	Negative	1782	TABUY0403	Negative
209	IRAMF0322	Negative	1783	TABUY0404	Negative
210	IRAMF0323	Negative	1784	TABUY0405	Negative
211	IRAMF0324	Negative	1785	TABUY0406	Negative
212	IRAMF0325	Negative	1786	TABUY0407	Negative
213	IRAMF0326	Negative	1787	TABUY0408	Negative
214	IRAMF0327	Negative	1788	TABUY0409	Negative
215	IRAMF0328	Negative	1789	TABUY0410	Negative
216	IRAMF0329	Negative	1790	TABUY0411	Negative
217	IRAMF0330	Negative	1791	TABUY0412	Negative
218	IRAMF0331	Negative	1792	TABUY0413	Negative
219	IRAMF0332	Negative	1793	TABUY0414	Negative
220	IRAMF0333	Negative	1794	TABUY0415	Negative
221	IRAMF0334	Negative	1795	TABUY0416	Negative
222	IRAMF0335	Negative	1796	TABUY0417	Negative
223	MANBAD0101	Negative	1797	TABUY0418	Negative
224	MANBAD0102	Negative	1798	TABUY0419	Negative
225	MANBAD0103	Negative	1799	TABUY0420	Negative
226	MANBAD0104	Negative	1800	TABUY0421	Negative
227	MANBAD0105	Negative	1801	TABUY0422	Negative
228	MANBAD0106	Negative	1802	TABUY0423	Negative
229	MANBAD0107	Negative	1803	TABUY0424	Negative
230	MANBAD0108	Negative	1804	TABUY0425	Negative
231	MANBAD0109	Negative	1805	TABUY0426	Negative
232	MANBAD0110	Negative	1806	TABUY0427	Negative
233	MANBAD0111	Negative	1807	TABUY0428	Negative
234	MANBAD0112	Negative	1808	TABUY0429	Negative

235	MANBAD0113	Negative	1809	TABUY0430	Negative
236	MANBAD0114	Negative	1810	TANMU0101	Negative
237	MANBAD0115	Negative	1811	TANMU0102	Negative
238	MANBAD0116	Negative	1812	TANMU0103	Negative
239	MANBAD0117	Negative	1813	TANMU0104	Negative
240	MANBAD0118	Negative	1814	TANMU0105	Negative
241	MANBAD0119	Negative	1815	TANMU0106	Negative
242	MANBAD0120	Negative	1816	TANMU0107	Negative
243	MANBAD0121	Negative	1817	TANMU0108	Negative
244	MANBAD0122	Negative	1818	TANMU0109	Negative
245	MANBAD0123	Negative	1819	TANMU0110	Negative
246	MANBAD0124	Negative	1820	TANMU0111	Negative
247	MANBAD0125	Negative	1821	TANMU0112	Negative
248	MANBAD0126	Negative	1822	TANMU0113	Negative
249	MANBAD0127	Negative	1823	TANMU0114	Negative
250	MANBAD0128	Negative	1824	TANMU0115	Negative
251	MANBAD0129	Negative	1825	TANMU0116	Negative
252	MANBAD0130	Negative	1826	TANMU0117	Negative
253	MANBAD0201	Negative	1827	TANMU0118	Negative
254	MANBAD0202	Negative	1828	TANMU0119	Negative
255	MANBAD0203	Negative	1829	TANMU0120	Negative
256	MANBAD0204	Negative	1830	TANMU0121	Negative
257	MANBAD0205	Negative	1831	TANMU0122	Negative
258	MANBAD0206	Negative	1832	TANMU0123	Negative
259	MANBAD0207	Negative	1833	TANMU0124	Negative
260	MANBAD0208	Negative	1834	TANMU0125	Negative
261	MANBAD0209	Negative	1835	TANMU0126	Negative
262	MANBAD0210	Negative	1836	TANMU0127	Negative
263	MANBAD0211	Negative	1837	TANMU0128	Negative
264	MANBAD0212	Negative	1838	TANMU0129	Negative
265	MANBAD0213	Negative	1839	TANMU0130	Negative
266	MANBAD0214	Negative	1840	TANMU0201	Negative
267	MANBAD0215	Negative	1841	TANMU0202	Negative
268	MANBAD0216	Negative	1842	TANMU0203	Negative
269	MANBAD0217	Negative	1843	TANMU0204	Negative
270	MANBAD0218	Negative	1844	TANMU0205	Negative
271	MANBAD0219	Negative	1845	TANMU0206	Negative
272	MANBAD0220	Negative	1846	TANMU0207	Negative
273	MANBAD0221	Negative	1847	TANMU0208	Negative
274	MANBAD0222	Negative	1848	TANMU0209	Negative
275	MANBAD0223	Negative	1849	TANMU0210	Negative
276	MANBAD0224	Negative	1850	TANMU0211	Negative
277	MANBAD0225	Negative	1851	TANMU0213	Negative
278	MANBAD0226	Negative	1852	TANMU0212	Negative
279	MANBAD0227	Negative	1853	TANMU0215	Negative
280	MANBAD0228	Negative	1854	TANMU0216	Negative
281	MANBAD0229	Negative	1855	TANMU0217	Negative

282	MANBAD0230	Negative	1856	TANMU0218	Negative
283	MANBAD0231	Negative	1857	TANMU0219	Negative
284	MANBAD0232	Negative	1858	TANMU0220	Negative
285	MANBAD0233	Negative	1859	TANMU0221	Negative
286	MANBAD0234	Negative	1860	TANMU0222	Negative
287	MANBAD0235	Negative	1861	TANMU0223	Negative
288	MANBAT0101	Negative	1862	TANMU0224	Negative
289	MANBAT0102	Negative	1863	TANMU0225	Negative
290	MANBAT0103	Negative	1864	TANMU0226	Negative
291	MANBAT0104	Negative	1865	TANMU0227	Negative
292	MANBAT0105	Negative	1866	TANMU0228	Negative
293	MANBAT0106	Negative	1867	TANMU0229	Negative
294	MANBAT0107	Negative	1868	TAMMU0230	Negative
295	MANBAT0108	Negative	1869	GEIDC0111	Negative
296	MANBAT0109	Negative	1870	GEIDC0112	Negative
297	MANBAT0110	Negative	1871	GEIDC0113	Negative
298	MANBAT0111	Negative	1872	GEIDC0114	Negative
299	MANBAT0112	Negative	1873	GEIDC0115	Negative
300	MANBAT0113	Negative	1874	GEIDC0116	Negative
301	MANBAT0114	Negative	1875	GEIDC0117	Negative
302	MANBAT0115	Negative	1876	GEICH0111	Negative
303	MANBAT0116	Negative	1877	GEICH0113	Negative
304	MANBAT0117	Negative	1878	GEICH0114	Negative
305	MANBAT0118	Negative	1879	GEICH0115	Negative
306	MANBAT0119	Negative	1880	GEICH0116	Negative
307	MANBAT0120	Negative	1881	GEICH0121	Negative
308	MANBAT0121	Negative	1882	GEICH0122	Negative
309	MANBAT0122	Negative	1883	GEUCH0123	Negative
310	MANBAT0123	Negative	1884	GEICH0124	Negative
311	MANBAT0124	Negative	1885	GEICH0125	Negative
312	MANBAT0125	Negative	1886	GEICH0126	Negative
313	MANBAT0126	Negative	1887	KAGMU01 31	Negative
314	MANBAT0127	Negative	1888	KAGMU01 32	Negative
315	MANBAT0128	Negative	1889	KAGMU01 33	Negative
316	MANBAT0129	Negative	1890	KAGMU01 34	Negative
317	MANBAT0130	Negative	1891	KAGMU0135	Negative
318	MANBAD0301	Negative	1892	KAGMU01 36	Negative
319	MANBAD0302	Negative	1893	KAGMU01 37	Negative
320	MANBAD0303	Negative	1894	KAGMU01 21	Negative
321	MANBAD0304	Negative	1895	KAGMU01 22	Negative
322	MANBAD0305	Negative	1896	KAGMU01 23	Negative
323	MANBAD0306	Negative	1897	KAGMU01 24	Negative
324	MANBAD0307	Negative	1898	KAGMU01 25	Negative
325	MANBAD0308	Negative	1899	KAGMU01 26	Negative
326	MANBAD0309	Negative	1900	KAGMU0111	Negative
327	MANBAD0310	Negative	1901	KAGMU01 12	Negative
328	MANBAD0311	Negative	1902	KAGMU01 13	Negative

329	MANBAD0312	Negative	1903	KAGMU01 14	Negative
330	MANBAD0313	Negative	1904	KAGMU01 15	Negative
331	MANBAD0314	Negative	1905	KAGMU01 16	Negative
332	MANBAD0315	Negative	1906	KAGMU01 17	Negative
333	MANBAD0316	Negative	1907	SHIKV0101	Negative
334	MANBAD0317	Negative	1908	SHIKV0102	Negative
335	MANBAD0318	Negative	1909	SHIKV0103	Negative
336	MANBAD0319	Negative	1910	SHIKV0104	Negative
337	MANBAD0320	Negative	1911	SHIKV0105	Negative
338	MANBAD0321	Negative	1912	SHIKV0106	Negative
339	MANBAD0322	Negative	1913	SHIKV0107	Negative
340	MANBAD0323	Negative	1914	SHIKV0108	Negative
341	MANBAD0324	Negative	1915	SHIKV0109	Negative
342	MANBAD0325	Negative	1916	SHIKV0110	Negative
343	MANBAD0326	Negative	1917	SHIKV0111	Negative
344	MANBAD0327	Negative	1918	SHIKV0112	Negative
345	MANBAD0328	Negative	1919	SHIKV0113	Negative
346	MANBAD0329	Negative	1920	SHIKV0114	Negative
347	MANBAD0330	Negative	1921	SHIKV0115	Negative
348	MANBAD0331	Negative	1922	SHIKV0116	Negative
349	MANBAD0332	Negative	1923	SHIKV0117	Negative
350	MANBAD0333	Negative	1924	SHIKV0118	Negative
351	MANBAD0334	Negative	1925	SHIKV0119	Negative
352	MANBAD0335	Negative	1926	SHIKV0120	Negative
353	DODDO0101	Negative	1927	SHIKV0121	Negative
354	DODDO0102	Negative	1928	SHIKV0122	Negative
355	DODDO0103	Negative	1929	SHIKV0123	Negative
356	DODDO0104	Negative	1930	SHIKV0124	Negative
357	DODDO0105	Negative	1931	SHIKV0125	Negative
358	DODDO0106	Negative	1932	SHIKV0126	Negative
359	DODDO0107	Negative	1933	SHIKV0127	Negative
360	DODDO0108	Negative	1934	SHIKV0128	Negative
361	DODDO0109	Negative	1935	SHIKV0129	Negative
362	DODDO0110	Negative	1936	SHIKV0130	Negative
363	DODDO0111	Negative	1937	SHIKV0201	Negative
364	DODDO0112	Negative	1938	SHIKV0202	Negative
365	DODDO0113	Negative	1939	SHIKV0203	Negative
366	DODDO0114	Negative	1940	SHIKV0205	Negative
367	DODDO0115	Negative	1941	SHIKV0206	Negative
368	DODDO0116	Negative	1942	SHIKV0207	Negative
369	DODDO0117	Negative	1943	SHIKV0208	Negative
370	DODDO0118	Negative	1944	SHIKV0209	Negative
371	DODDO0119	Negative	1945	SHIKV0210	Negative
372	DODDO0120	Negative	1946	SHIKV0211	Negative
373	DODDO0121	Negative	1947	SHIKV0212	Negative
374	DODDO0122	Negative	1948	SHIKV0213	Negative
375	DODDO0123	Negative	1949	SHIKV0214	Negative

376	DODDO0124	Negative	1950	SHIKV0215	Negative
377	DODDO0125	Negative	1951	SHIKV0216	Negative
378	DODDO0126	Negative	1952	SHIKV0217	Negative
379	DODDO0127	Negative	1953	SHIKV0218	Negative
380	DODDO0128	Negative	1954	SHIKV0219	Negative
381	DODDO0129	Negative	1955	SHIKV0220	Negative
382	DODDO0130	Negative	1956	SHIKV0221	Negative
383	DODDO0201	Negative	1957	SHIKV0222	Negative
384	DODDO0202	Negative	1958	SHIKV0223	Negative
385	DODDO0203	Negative	1959	SHIKV0224	Negative
386	DODDO0204	Negative	1960	SHIKV0225	Negative
387	DODDO0205	Negative	1961	SHIKV0226	Negative
388	DODDO0206	Negative	1962	SHIKV0227	Negative
389	DODDO0207	Negative	1963	SHIKV0228	Negative
390	DODDO0208	Negative	1964	SHIKV0229	Negative
391	DODDO0209	Negative	1965	SHIKV0230	Negative
392	DODDO0210	Negative	1966	SHIKV0301	Negative
393	DODDO0211	Negative	1967	SHIKV0302	Negative
394	DODDO0212	Negative	1968	SHIKV0303	Negative
395	DODDO0213	Negative	1969	SHIKV0304	Negative
396	DODDO0214	Negative	1970	SHIKV0305	Negative
397	DODDO0215	Negative	1971	SHIKV0306	Negative
398	DODDO0216	Negative	1972	SHIKV0307	Negative
399	DODDO0217	Negative	1973	SHIKV0308	Negative
400	DODDO0218	Negative	1974	SHIKV0309	Negative
401	DODDO0219	Negative	1975	SHIKV0310	Negative
402	DODDO0220	Negative	1976	SHIKV0311	Negative
403	DODDO0221	Negative	1977	SHIKV0312	Negative
404	DODDO0222	Negative	1978	SHIKV0313	Negative
405	DODDO0223	Negative	1979	SHIKV0314	Negative
406	DODDO0224	Negative	1980	SHIKV0315	Negative
407	DODDO0225	Negative	1981	SHIKV0316	Negative
408	DODDO0226	Negative	1982	SHIKV0317	Negative
409	DODDO0227	Negative	1983	SHIKV0318	Negative
410	DODDO0228	Negative	1984	SHIKV0319	Negative
411	DODDO0229	Negative	1985	SHIKV0320	Negative
412	DODDO0230	Negative	1986	SHIKV0321	Negative
413	DODCH0501	Negative	1987	SHIKV0322	Negative
414	DODCH0502	Negative	1988	SHIKV0323	Negative
415	DODCH0503	Negative	1989	SHIKV0324	Negative
416	DODCH0504	Negative	1990	SHIKV0325	Negative
417	DODCH0505	Negative	1991	SHIKV0326	Negative
418	DODCH0506	Negative	1992	SHIKV0327	Negative
419	DODCH0507	Negative	1993	SHIKV0328	Negative
420	DODCH0508	Negative	1994	SHIKV0329	Negative
421	DODCH0509	Negative	1995	SHIKV0330	Negative
422	DODCH0510	Negative	1996	SHIKV0401	Negative

423	DODCH0511	Negative	1997	SHIKV0402	Negative
424	DODCH0512	Negative	1998	SHIKV0403	Negative
425	DODCH0513	Negative	1999	SHIKV0404	Negative
426	DODCH0514	Negative	2000	SHIKV0405	Negative
427	DODCH0515	Negative	2001	SHIKV0406	Negative
428	DODCH0516	Negative	2002	SHIKV0407	Negative
429	DODCH0517	Negative	2003	SHIKV0408	Negative
430	DODCH0518	Negative	2004	SHIKV0409	Negative
431	DODCH0519	Negative	2005	SHIKV0410	Negative
432	DODCH0520	Negative	2006	SHIKV0411	Negative
433	DODCH0521	Negative	2007	SHIKV0412	Negative
434	DODCH0522	Negative	2008	SHIKV0413	Negative
435	DODCH0523	Negative	2009	SHIKV0414	Negative
436	DODCH0524	Negative	2010	SHIKV0415	Negative
437	DODCH0525	Negative	2011	SHIKV0416	Negative
438	DODCH0526	Negative	2012	SHIKV0417	Negative
439	DODCH0527	Negative	2013	SHIKV0418	Negative
440	DODCH0528	Negative	2014	SHIKV0419	Negative
441	DODCH0529	Negative	2015	SHIKV0420	Negative
442	DODCH0530	Negative	2016	SHIKV0421	Negative
443	SIMBA0111	Negative	2017	SHIKV0422	Negative
444	SIMBA0112	Negative	2018	SHIKV0423	Negative
445	SIMBA0113	Negative	2019	SHIKV0424	Negative
446	SIMBA0114	Negative	2020	SHIKV0425	Negative
447	SIMBA0115	Negative	2021	SHIKV0426	Negative
448	SIMBA0116	Negative	2022	SHIKV0427	Negative
449	SIMBA0117	Negative	2023	SHIKV0428	Negative
450	MANBAT0201	Negative	2024	SHIKV0429	Negative
451	MANBAT0202	Negative	2025	SHIKV0430	Negative
452	MANBAT0203	Negative	2026	SHIKM0101	Negative
453	MANBAT0204	Negative	2027	SHIKM0102	Negative
454	MANBAT0205	Negative	2028	SHIKM0103	Negative
455	MANBAT0206	Negative	2029	SHIKM0104	Negative
456	MANBAT0207	Negative	2030	SHIKM0105	Negative
457	MANBAT0208	Negative	2031	SHIKM0106	Negative
458	MANBAT0209	Negative	2032	SHIKM0107	Negative
459	MANBAT0210	Negative	2033	SHIKM0108	Negative
460	MANBAT0211	Negative	2034	SHIKM0109	Negative
461	MANBAT0212	Negative	2035	SHIKM0110	Negative
462	MANBAT0213	Negative	2036	SHIKM0111	Negative
463	MANBAT0214	Negative	2037	SHIKM0112	Negative
464	MANBAT0215	Negative	2038	SHIKM0113	Negative
465	MANBAT0216	Negative	2039	SHIKM0114	Negative
466	MANBAT0217	Negative	2040	SHIKM0115	Negative
467	MANBAT0218	Negative	2041	SHIKM0116	Negative
468	MANBAT0219	Negative	2042	SHIKM0117	Negative
469	MANBAT0220	Negative	2043	SHIKM0118	Negative

470	MANBAT0221	Negative	2044	SHIKM0119	Negative
471	MANBAT0222	Negative	2045	SHIKM0120	Negative
472	MANBAT0223	Negative	2046	SHIKM0121	Negative
473	MANBAT0224	Negative	2047	SHIKM0122	Negative
474	MANBAT0225	Negative	2048	SHIKM0123	Negative
475	MANBAT0226	Negative	2049	SHIKM0124	Negative
476	MANBAT0227	Negative	2050	SHIKM0125	Negative
477	MANBAT0228	Negative	2051	SHIKM0126	Negative
478	MANBAT0229	Negative	2052	SHIKM0127	Negative
479	MANBAT0230	Negative	2053	SHIKM0128	Negative
480	MANBAT0301	Negative	2054	SHIKM0129	Negative
481	MANBAT0302	Negative	2055	SHIKM0130	Negative
482	MANBAT0303	Negative	2056	KAGTC0111	Negative
483	MANBAT0304	Negative	2057	KAGTC01 12	Negative
484	MANBAT0305	Negative	2058	KAGTC01 13	Negative
485	MANBAT0306	Negative	2059	KAGTC01 14	Negative
486	MANBAT0307	Negative	2060	KAGTC115	Negative
487	MANBAT0308	Negative	2061	KAGTC0116	Negative
488	MANBAT0309	Negative	2062	KAGTC0117	Negative
489	MANBAT0310	Negative	2063	GAGBI0111	Negative
490	MANBAT0311	Negative	2064	KAGBI0112	Negative
491	MANBAT0312	Negative	2065	KAGBI0113	Negative
492	MANBAT0313	Negative	2066	KAGBI0114	Negative
493	MANBAT0314	Negative	2067	KAGBI0115	Negative
494	MANBAT0315	Negative	2068	KAGBI0116	Negative
495	MANBAT0316	Negative	2069	KAGBI0117	Negative
496	MANBAT0317	Negative	2070	GEIBU0111	Negative
497	MANBAT0318	Negative	2071	GEIBU0112	Negative
498	MANBAT0319	Negative	2072	GEIBU01113	Negative
499	MANBAT0320	Negative	2073	GEIBU0114	Negative
500	MANBAT0321	Negative	2074	GEIBU0115	Negative
501	MANBAT0322	Negative	2075	GEIBU0116	Negative
502	MANBAT0323	Negative	2076	GEIBU0117	Negative
503	MANBAT0324	Negative	2077	NJOMK0601	Negative
504	MANBAT0325	Negative	2078	NJOMK0602	Negative
505	MANBAT0326	Negative	2079	NJOMK0603	Negative
506	MANBAT0327	Negative	2080	NJOMK0604	Negative
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508	MANBAT0329	Negative	2082	NJOMK0606	Negative
509	MANBAT0330	Negative	2083	NJOMK0607	Negative
510	MANMBT0101	Negative	2084	NJOMK0608	Negative
511	MANMBT0102	Negative	2085	NJOMK0609	Negative
512	MANMBT0103	Negative	2086	NJOMK0610	Negative
513	MANMBT0104	Negative	2087	NJOMK0611	Negative
514	MANMBT0105	Negative	2088	NJOMK0612	Negative
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516	MANMBT0107	Negative	2090	NJOMK0614	Negative

517	MANMBT0108	Negative	2091	NJOMK0615	Negative
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520	MANMBT0111	Negative	2094	NJOMK0618	Negative
521	MANMBT0112	Negative	2095	NJOMK0619	Negative
522	MANMBT0113	Negative	2096	NJOMK0620	Negative
523	MANMBT0114	Negative	2097	NJOMK0621	Negative
524	MANMBT0115	Negative	2098	NJOMK0622	Negative
525	MANMBT0116	Negative	2099	NJOMK0623	Negative
526	MANMBT0117	Negative	2100	NJOMK0624	Negative
527	MANMBT0118	Negative	2101	NJOMK0625	Negative
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530	MANMBT0121	Negative	2104	NJOMK0628	Negative
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532	MANMBT0123	Negative	2106	NJOMK0630	Negative
533	MANMBT0124	Negative	2107	NJOMK0631	Negative
534	MANMBT0125	Negative	2108	NJOMK0632	Negative
535	MANMBT0126	Negative	2109	NJOMK0633	Negative
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539	MANMBT0130	Negative	2113	NJOUR0402	Negative
540	MAMBT0201	Negative	2114	NJOUR0403	Negative
541	MANMBT0202	Negative	2115	NJOUR0404	Negative
542	MANMBT0203	Negative	2116	NJOUR0405	Negative
543	MANMBT0204	Negative	2117	NJOUR0406	Negative
544	MANMBT0205	Negative	2118	NJOUR0407	Negative
545	MANMBT0206	Negative	2119	NJOUR0408	Negative
546	MANMBT0207	Negative	2120	NJOUR0409	Negative
547	MANMBT0208	Negative	2121	NJOUR0410	Negative
548	MANMBT0209	Negative	2122	NJOUR0411	Negative
549	MANMBT0210	Negative	2123	NJOUR0412	Negative
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552	MANMBT0213	Negative	2126	NJOUR0415	Negative
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558	MANMBT0219	Negative	2132	NJOUR0421	Negative
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562	MANMBT0223	Negative	2136	NJOUR0425	Negative
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564	MANMBT0225	Negative	2138	NJOUR0427	Negative
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571	MANMBT0302	Negative	2145	NJOUR0434	Negative
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574	MANMBT0305	Negative	2148	MBYIL1302	Negative
575	MANMBT0306	Negative	2149	MBYIL1303	Negative
576	MANMBT0307	Negative	2150	MBYIL1304	Negative
577	MANMBT0308	Negative	2151	MBYIL1305	Negative
578	MANMBT0309	Negative	2152	MBYIL1306	Negative
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587	MANMBT0318	Negative	2161	MBYIL1315	Negative
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592	MANMBT0323	Negative	2166	MBYIL1320	Negative
593	MANMBT0324	Negative	2167	MBYIL1321	Negative
594	MANMBT0325	Negative	2168	MBYIL1322	Negative
595	MANMBT0326	Negative	2169	MBYIL1323	Negative
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597	MANMBT0328	Negative	2171	MBYIL1325	Negative
598	MANMBT0329	Negative	2172	MBYIL1326	Negative
599	MANMBT0330	Negative	2173	MBYIL1327	Negative
600	MWAMI0111	Negative	2174	MBYIL1328	Negative
601	MWAMI0112	Negative	2175	MBYIL1329	Negative
602	MWAMI0113	Negative	2176	MBYIL1330	Negative
603	MWAMI0114	Negative	2177	MBYIL1331	Negative
604	MWAMI0115	Negative	2178	MBYIL1332	Negative
605	MWAMI0116	Negative	2179	MBYIL1333	Negative
606	MWAMI0117	Negative	2180	MBYIL1334	Negative
607	SIMBA0121	Negative	2181	MBYIL1335	Negative
608	SIMBA0122	Negative	2182	MBYUR0801	Negative
609	SIMBA0123	Negative	2183	MBYUR0802	Negative
610	SIMNA0124	Negative	2184	MBYUR0803	Negative

611	SIMBA0125	Negative	2185	MBYUR0804	Negative
612	SIMBA0126	Negative	2186	MBYUR0805	Negative
613	SIMBA0127	Negative	2187	MBYUR0806	Negative
614	SIMBA0131	Negative	2188	MBYUR0807	Negative
615	SIMBA0132	Negative	2189	MBYUR0808	Negative
616	SIMBA133	Negative	2190	MBYUR0809	Negative
617	SIMBA134	Negative	2191	MBYUR0810	Negative
618	SIMBA0135	Negative	2192	MBYUR0811	Negative
619	SIMBA0136	Negative	2193	MBYUR0812	Negative
620	SIMBA0137	Negative	2194	MBYUR0813	Negative
621	MARTA01011	Negative	2195	MBYUR0814	Negative
622	MARTA0112	Negative	2196	MBYUR0815	Negative
623	MARTA0113	Negative	2197	MBYUR0816	Negative
624	MARTA0114	Negative	2198	MBYUR0817	Negative
625	MARTA0115	Negative	2199	MBYUR0818	Negative
626	MARTA0116	Negative	2200	MBYUR0819	Negative
627	MARTA0117	Negative	2201	MBYUR0820	Negative
628	MARTA0121	Negative	2202	MBYUR0821	Negative
629	MARTA0122	Negative	2203	MBYUR0822	Negative
630	MARTA0123	Negative	2204	MBYUR0823	Negative
631	MARTA0124	Negative	2205	MBYUR0824	Negative
632	MARTA0125	Negative	2206	MBYUR0825	Negative
633	MARTA0126	Negative	2207	MBYUR0826	Negative
634	MARTA0131	Negative	2208	MBYUR0827	Negative
635	MARTA0132	Negative	2209	MBYUR0828	Negative
636	MARTA0133	Negative	2210	MBYUR0829	Negative
637	MARTA0134	Negative	2211	MBYUR0830	Negative
638	MARTA0135	Negative	2212	MBYUR0831	Negative
639	MARTA0136	Negative	2213	MBYUR0832	Negative
640	MARTA0137	Negative	2214	MBYUR0833	Negative
641	MARBU0121	Negative	2215	MBYUR0834	Negative
642	MARBU0122	Negative	2216	MBYUR0835	Negative
643	MARBU0123	Negative	2217	NJOWG0501	Negative
644	MARBU0124	Negative	2218	NJOWG0502	Negative
645	MARBU0125	Negative	2219	NJOWG0503	Negative
646	MARBU0126	Negative	2220	NJOWG0504	Negative
647	MARBU0127	Negative	2221	NJOWG0505	Negative
648	SIMBU0111	Negative	2222	NJOWG0506	Negative
649	SIMBU0112	Negative	2223	NJOWG0507	Negative
650	SIMBU0113	Negative	2224	NJOWG0508	Negative
651	SIMBU0114	Negative	2225	NJOWG0509	Negative
652	SIMBU0115	Negative	2226	NJOWG0510	Negative
653	SIMBU0116	Negative	2227	NJOWG0511	Negative
654	SIMBU0117	Negative	2228	NJOWG0512	Negative
655	MWAMI0121	Negative	2229	NJOWG0513	Negative
656	MWAMI0122	Negative	2230	NJOWG0514	Negative
657	MWAMI0123	Negative	2231	NJOWG0515	Negative

658	MWAMI0124	Negative	2232	NJOWG0516	Negative
659	MWAMI0125	Negative	2233	NJOWG0517	Negative
660	MWAMI0126	Negative	2234	NJOWG0518	Negative
661	MWAMI0131	Negative	2235	NJOWG0519	Negative
662	MWAMI0132	Negative	2236	NJOWG0520	Negative
663	MWAMI0133	Negative	2237	NJOWG0521	Negative
664	MWAMI0134	Negative	2238	NJOWG0522	Negative
665	MWAMI0135	Negative	2239	NJOWG0523	Negative
666	MWAMI0136	Negative	2240	NJOWG0524	Negative
667	MWAMI0137	Negative	2241	NJOWG0525	Negative
668	DODBA0101	Negative	2242	NJOWG0526	Negative
669	DODBA0102	Negative	2243	NJOWG0527	Negative
670	DODBA0103	Negative	2244	NJOWG0528	Negative
671	DODBA0104	Negative	2245	NJOWG0529	Negative
672	DODBA0105	Negative	2246	NJOWG0530	Negative
673	DODBA0106	Negative	2247	NJOWG0531	Negative
674	DODBA0107	Negative	2248	NJOWG0532	Negative
675	DODBA0108	Negative	2249	NJOWG0533	Negative
676	DODBA0109	Negative	2250	NJOWG0534	Negative
677	DODBA0110	Negative	2251	NJOWG0535	Negative
678	DODBA0111	Negative	2252	RKWNK1001	Negative
679	DODBA0112	Negative	2253	RKWNK1002	Negative
680	DODBA0113	Negative	2254	RKWNK1003	Negative
681	DODBA0114	Negative	2255	RKWNK1004	Negative
682	DODBA0115	Negative	2256	RKWNK1005	Negative
683	DODBA0116	Negative	2257	RKWNK1006	Negative
684	DODBA0117	Negative	2258	RKWNK1007	Negative
685	DODBA0118	Negative	2259	RKWNK1008	Negative
686	DODBA0119	Negative	2260	RKWNK1009	Negative
687	DODBA0120	Negative	2261	RKWNK1013	Negative
688	DODBA0121	Negative	2262	RKWNK1014	Negative
689	DODBA0122	Negative	2263	RKWNK1015	Negative
690	DODBA0123	Negative	2264	RKWNK1016	Negative
691	DODBA0124	Negative	2265	RKWNK1017	Negative
692	DODBA0125	Negative	2266	RKWNK1018	Negative
693	DODBA0126	Negative	2267	RKWNK1019	Negative
694	DODBA0127	Negative	2268	RKWNK1020	Negative
695	DODBA0128	Negative	2269	RKWNK1021	Negative
696	DODBA0129	Negative	2270	RKWNK1022	Negative
697	DODBA0130	Negative	2271	RKWNK1023	Negative
698	MWAMI0141	Negative	2272	RKWNK1024	Negative
699	MWAMI0142	Negative	2273	RKWNK1025	Negative
700	MWAMI0143	Negative	2274	RKWNK1026	Negative
701	MWAMI0144	Negative	2275	RKWNK1027	Negative
702	MWAMI0145	Negative	2276	RKWNK1028	Negative
703	MWAMI0146	Negative	2277	RKWNK1029	Negative
704	MWAMI0147	Negative	2278	RKWNK1030	Negative

705	ARUARD0101	Negative	2279	RKWNK1031	Negative
706	ARUARD0102	Negative	2280	RKWNK1032	Negative
707	ARUARD0103	Negative	2281	RKWNK1033	Negative
708	ARUARD0104	Negative	2282	RKWNK1034	Negative
709	ARUARD0105	Negative	2283	RKWNK1035	Negative
710	ARUARD0106	Negative	2284	SGWMB0901	Negative
711	ARUARD0107	Negative	2285	SGWMB0902	Negative
712	ARUARD0108	Negative	2286	SGWMB0903	Negative
713	ARUARD0109	Negative	2287	SGWMB0904	Negative
714	ARUARD0110	Negative	2288	SGWMB0905	Negative
715	ARUARD0111	Negative	2289	SGWMB0906	Negative
716	ARUARD0112	Negative	2290	SGWMB0907	Negative
717	ARUARD0113	Negative	2291	SGWMB0908	Negative
718	ARUARD0114	Negative	2292	SGWMB0909	Negative
719	ARUARD0115	Negative	2293	SGWMB0910	Negative
720	ARUARD0116	Negative	2294	SGWMB0911	Negative
721	ARUARD0117	Negative	2295	SGWMB0912	Negative
722	ARUARD0118	Negative	2296	SGWMB0913	Negative
723	ARUARD0119	Negative	2297	SGWMB0914	Negative
724	ARUARD0120	Negative	2298	SGWMB0915	Negative
725	ARUARD0121	Negative	2299	SGWMB0916	Negative
726	ARUARD0122	Negative	2300	SGWMB0917	Negative
727	ARUARD0123	Negative	2301	SGWMB0918	Negative
728	ARUARD0124	Negative	2302	SGWMB0919	Negative
729	ARUARD0125	Negative	2303	SGWMB0920	Negative
730	ARUARD0126	Negative	2304	SGWMB0921	Negative
731	ARUARD0127	Negative	2305	SGWMB0922	Negative
732	ARUARD0128	Negative	2306	SGWMB0923	Negative
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735	MWASE0111	Negative	2309	SGWMB0926	Negative
736	MWASE0112	Negative	2310	SGWMB0927	Negative
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738	MWASE0114	Negative	2312	SGWMB0929	Negative
739	MWASE0115	Negative	2313	SGWMB0930	Negative
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741	MWASE0117	Negative	2315	SGWMB0932	Negative
742	MWASE0121	Negative	2316	SGWMB0933	Negative
743	MWASE0122	Negative	2317	SGWMB0934	Negative
744	MWASE0123	Negative	2318	SGWMB0935	Negative
745	MWASE0124	Negative	2319	MBYRU0701	Negative
746	MWASE0125	Negative	2320	MBYRU0702	Negative
747	MWASE0126	Negative	2321	MBYRU0703	Negative
748	MWASE0127	Negative	2322	MBYRU0704	Negative
749	ARUKA0101	Negative	2323	MBYRU0705	Negative
750	ARUKA0102	Negative	2324	MBYRU0706	Negative
751	ARUKA0103	Negative	2325	MBYRU0707	Negative

752	ARUKA0104	Negative	2326	MBYRU0708	Negative
753	ARUKA0105	Negative	2327	MBYRU0709	Negative
754	ARUKA0106	Negative	2328	MBYRU0710	Negative
755	ARUKA0107	Negative	2329	MBYRU0711	Negative
756	ARUKA0108	Negative	2330	MBYRU0712	Negative
757	ARUKA0109	Negative	2331	MBYRU0713	Negative
758	ARUKA0110	Negative	2332	MBYRU0714	Negative
759	ARUKA0111	Negative	2333	MBYRU0715	Negative
760	ARUKA0112	Negative	2334	MBYRU0716	Negative
761	ARUKA0113	Negative	2335	MBYRU0717	Negative
762	ARUKA0114	Negative	2336	MBYRU0718	Negative
763	ARUKA0115	Negative	2337	MBYRU0719	Negative
764	ARUKA0116	Negative	2338	MBYRU0720	Negative
765	ARUKA0117	Negative	2339	MBYRU0721	Negative
766	ARUKA0118	Negative	2340	MBYRU0722	Negative
767	ARUKA0119	Negative	2341	MBYRU0723	Negative
768	ARUKA0120	Negative	2342	MBYRU0724	Negative
769	ARUKA0121	Negative	2343	MBYRU0725	Negative
770	ARUKA0122	Negative	2344	MBYRU0726	Negative
771	ARUKA0123	Negative	2345	MBYRU0727	Negative
772	ARUKA0124	Negative	2346	MBYRU0728	Negative
773	ARUKA0125	Negative	2347	MBYRU0729	Negative
774	ARUKA0126	Negative	2348	MBYRU0730	Negative
775	ARUKA0127	Negative	2349	MBYRU0731	Negative
776	ARUKA0128	Negative	2350	MBYRU0732	Negative
777	ARUKA0129	Negative	2351	MBYRU0733	Negative
778	ARUKA0130	Negative	2352	MBYRU0734	Negative
779	ARUKA0201	Negative	2353	MBYRU0735	Negative
780	ARUKA0202	Negative	2354	RKWKL1101	Negative
781	ARUKA0203	Negative	2355	RKWKL1102	Negative
782	ARUKA0204	Negative	2356	RKWKL1103	Negative
783	ARUKA0205	Negative	2357	RKWKL1104	Negative
784	ARUKA0206	Negative	2358	RKWKL1105	Negative
785	ARUKA0207	Negative	2359	RKWKL1106	Negative
786	ARUKA0208	Negative	2360	RKWKL1107	Negative
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796	ARUKA0218	Negative	2370	RKWKL1117	Negative
797	ARUKA0219	Negative	2371	RKWKL1118	Negative
798	ARUKA0220	Negative	2372	RKWKL1119	Negative

799	ARUKA0221	Negative	2373	RKWL1120	Negative
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807	ARUKA0229	Negative	2381	RKWL1128	Negative
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812	ARUKA0234	Negative	2386	RKWL1133	Negative
813	ARUKA0235	Negative	2387	RKWL1134	Negative
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816	ARUKA0303	Negative	2390	RKWSW1203	Negative
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818	ARUKA0305	Negative	2392	RKWSW1205	Negative
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825	ARUKA0312	Negative	2399	RKWSW1212	Negative
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832	ARUKA0319	Negative	2406	RKWSW1219	Negative
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840	ARUKA0327	Negative	2414	RKWSW1227	Negative
841	ARUKA0328	Negative	2415	RKWSW1228	Negative
842	ARUKA0329	Negative	2416	RKWSW1229	Negative
843	ARUARC0101	Negative	2417	RKWSW1230	Negative
844	ARUARC0102	Negative	2418	RKWSW1231	Negative

846	ARUARC0103	Negative	2420	RKWSW1232	Negative
847	ARUARC0104	Negative	2421	RKWSW1233	Negative
848	ARUARC0105	Negative	2422	RKWSW1234	Negative
849	ARUARC0106	Negative	2423	RKWSW1235	Negative
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851	ARUARC0108	Negative	2425	MORGA0102	Negative
852	ARUARC0109	Negative	2426	MORGA0103	Negative
853	ARUARC0110	Negative	2427	MORGA0104	Negative
854	ARUARC0111	Negative	2428	MORGA0105	Negative
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856	ARUARC0113	Negative	2430	MORGA0107	Negative
857	ARUARC0114	Negative	2431	MORGA0108	Negative
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859	ARUARC0116	Negative	2433	MORGA0110	Negative
860	ARUARC0117	Negative	2434	MORGA0111	Negative
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865	ARUARC0122	Negative	2439	MORGA0116	Negative
866	ARUARC0123	Negative	2440	MORGA0117	Negative
867	ARUARC0124	Negative	2441	MORGA0118	Negative
868	ARUARC0125	Negative	2442	MORGA0119	Negative
869	ARUARC0126	Negative	2443	MORGA0120	Negative
870	ARUARC0127	Negative	2444	MORGA0121	Negative
871	ARUARC0128	Negative	2445	MORGA0122	Negative
872	ARUARC0129	Negative	2446	MORGA0123	Negative
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875	ARUARC0132	Negative	2449	MORGA0126	Negative
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878	ARUARC0135	Negative	2452	MORGA0129	Negative
879	ARUME0101	Negative	2453	MORGA0130	Negative
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881	ARUME0103	Negative	2455	MORKI0102	Negative
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883	ARUME0105	Negative	2457	MORKI0104	Negative
884	ARUME0106	Negative	2458	MORKI0105	Negative
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887	ARUME0109	Negative	2461	MORKI0108	Negative
888	ARUME0110	Negative	2462	MORKI0109	Negative
889	ARUME0111	Negative	2463	MORKI0110	Negative
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892	ARUME0114	Negative	2466	MORKI0113	Negative

893	ARUME0115	Negative	2467	MORKI0114	Negative
894	ARUME0116	Negative	2468	MORKI0115	Negative
895	ARUME0117	Negative	2469	MORKI0116	Negative
896	ARUME0118	Negative	2470	MORKI0117	Negative
897	ARUME0119	Negative	2471	MORKI0118	Negative
898	ARUME0120	Negative	2472	MORKI0119	Negative
899	ARUME0121	Negative	2473	MORKI0120	Negative
900	ARUME0122	Negative	2474	MORKI0121	Negative
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902	ARUME0124	Negative	2476	MORKI0123	Negative
903	ARUME0125	Negative	2477	MORKI0124	Negative
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906	ARUME0128	Negative	2480	MORKI0127	Negative
907	ARUME0129	Negative	2481	MORKI0128	Negative
908	ARUME0130	Negative	2482	MORKI0129	Negative
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911	ARUME0203	Negative	2485	MORMN0102	Negative
912	ARUME0204	Negative	2486	MORMN0103	Negative
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920	ARUME0213	Negative	2494	MORMN0111	Negative
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924	ARUME0217	Negative	2498	MORMN0115	Negative
925	ARUME0218	Negative	2499	MORMN0116	Negative
926	ARUME0219	Negative	2500	MORMN0117	Negative
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929	ARUME0222	Negative	2503	MORMN0120	Negative
930	ARUME0223	Negative	2504	MORMN0121	Negative
931	ARUME0224	Negative	2505	MORMN0122	Negative
932	ARUME0225	Negative	2506	MORMN0123	Negative
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937	ARUME0230	Negative	2511	MORMN0128	Negative
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940	ARUARD0203	Negative	2514	MORMN0201	Negative
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998	ARUME0327	Negative	2572	TANMU0329	Negative
999	ARUME0328	Negative	2573	TANMU0330	Negative
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1001	ARUME0330	Negative	2575	PWAMK0102	Negative
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1004	KILSI01103	Negative	2578	PWAMK0105	Negative
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1126	KILMOD0205	Negative	2700	MMMB02001	Negative
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1358	KILSI0328	Negative	2932	MKPWMC02005	Negative
1359	KILSI0329	Negative	2933	MKPWMC02006	Negative
1360	KILSI0330	Negative	2934	MKPWMC02007	Negative

1361	KILMOD0101	Negative	2935	MKPWMC04001	Negative
1362	KILMOD0102	Negative	2936	MKPWMC04002	Negative
1363	KILMOD0103	Negative	2937	MKPWMC04003	Negative
1364	KILMO0104	Negative	2938	MKPWMC04004	Negative
1365	KILMO0105	Negative	2939	MKPWMC04005	Negative
1366	KILMO0106	Negative	2940	MKPWMC04006	Negative
1367	KILMO0107	Negative	2941	MKPWWT02001	Negative
1368	KILMO0108	Negative	2942	MKPWWT02002	Negative
1369	KILMOD0109	Negative	2943	MKPWWT02003	Negative
1370	KILMO0110	Negative	2944	MKPWWT02004	Negative
1371	KILMO0111	Negative	2945	MKPWWT02005	Negative
1372	KILMO0112	Negative	2946	LINKI0101	Negative
1373	KILMOD0113	Negative	2947	LINKI0102	Negative
1374	KILMO0114	Negative	2948	LINKI0103	Negative
1375	KILMO0115	Negative	2949	LINKI0104	Negative
1376	KILMOD0116	Negative	2950	LINKI0105	Negative
1377	KILMOD0117	Negative	2951	LINKI0106	Negative
1378	KILMOD0118	Negative	2952	LINKI0107	Negative
1379	KILMOD0119	Negative	2953	LINKI0108	Negative
1380	KILMOD0120	Negative	2954	LINKI0109	Negative
1381	KILMOD0121	Negative	2955	LINKI0110	Negative
1382	KILMOD0122	Negative	2956	LINKI0111	Negative
1383	KILMOD0123	Negative	2957	LINKI0112	Negative
1384	KILMOD0124	Negative	2958	LINKI0113	Negative
1385	KILMOD0125	Negative	2959	LINKI0114	Negative
1386	KILMOD0126	Negative	2960	LINKI0115	Negative
1387	KILMOD0127	Negative	2961	LINKI0116	Negative
1388	KILMOD0128	Negative	2962	LINKI0117	Negative
1389	KILMOD0129	Negative	2963	LINKI0118	Negative
1390	KILMOD0130	Negative	2964	LINKI0119	Negative
1391	KILMOD0301	Negative	2965	LINKI0120	Negative
1392	KILMOD0302	Negative	2966	LINKI0121	Negative
1393	KILMOD0303	Negative	2967	LINKI0122	Negative
1394	KILMOD0304	Negative	2968	LINKI0123	Negative
1395	KILMOD0305	Negative	2969	LINKI0124	Negative
1396	KILMOD0306	Negative	2970	LINKI0125	Negative
1397	KILMOD0307	Negative	2971	LINKI0126	Negative
1398	KILMOD0308	Negative	2972	LINKI0127	Negative
1399	KILMOD0309	Negative	2973	LINKI0128	Negative
1400	KILMOD0310	Negative	2974	LINKI0129	Negative
1401	KILMOD0311	Negative	2975	LINKI0130	Negative
1402	KILMOD0312	Negative	2976	LINKI0201	Negative
1403	KILMOD0313	Negative	2977	LINDKI0202	Negative
1404	KILMOD0314	Negative	2978	LINKI0203	Negative
1405	KILMOD0315	Negative	2979	LINKI0204	Negative
1406	KILMOD0316	Negative	2980	LINKI0205	Negative

1407	KILMOD0317	Negative	2981	LINKI0206	Negative
1408	KILMOD0318	Negative	2982	LINKI0207	Negative
1409	KILMOD0319	Negative	2983	LINKI0208	Negative
1410	KILMOD0320	Negative	2984	LINKI0209	Negative
1411	KILMOD0321	Negative	2985	LINKI0210	Negative
1412	KILMOD0322	Negative	2986	LINKI0211	Negative
1413	KILMOD0323	Negative	2987	LINKI0212	Negative
1414	KILMOD0324	Negative	2988	LINKI0213	Negative
1415	KILMOD0325	Negative	2989	LINKI0214	Negative
1416	KILMOD0326	Negative	2990	LINKI0215	Negative
1417	KILMOD0327	Negative	2991	LINKI0216	Negative
1418	KILMOD0328	Negative	2992	LINKI0217	Negative
1419	KILMOD0329	Negative	2993	LINKI0218	Negative
1420	KILMOD0330	Negative	2994	LINKI0219	Negative
1421	KILRO0101	Negative	2995	LINKI0220	Negative
1422	KILRO0102	Negative	2996	LINKI0221	Negative
1423	KILRO0103	Negative	2997	LINKI0222	Negative
1424	KILRO0104	Negative	2998	LINKI0223	Negative
1425	KILRO0105	Negative	2999	LINKI0224	Negative
1426	KILRO0106	Negative	3000	LINKI0225	Negative
1427	KILRO0107	Negative	3001	LINKI0226	Negative
1428	KILRO0108	Negative	3002	LINKI0227	Negative
1429	KILRO0109	Negative	3003	LINKI0228	Negative
1430	KILRO0110	Negative	3004	LINKI0229	Negative
1431	KILRO0111	Negative	3005	LINKI0230	Negative
1432	KILRO0112	Negative	3006	LINKI0101	Negative
1433	KILRO0113	Negative	3007	LINKI0102	Negative
1434	KILRO0114	Negative	3008	LINKI0103	Negative
1435	KILRO0115	Negative	3009	LINKI0104	Negative
1436	KILRO0116	Negative	3010	LINKI0105	Negative
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1440	KILRO0120	Negative	3014	LINKI0109	Negative
1441	KILRO0121	Negative	3015	LINKI0110	Negative
1442	KILRO0122	Negative	3016	LINKI0111	Negative
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1449	KILRO0129	Negative	3023	LINKI0118	Negative
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1454	KILRO0204	Negative	3028	LINLI0123	Negative
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1501	KILRO0321	Negative	3075	MTWMT0110	Negative
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