









































































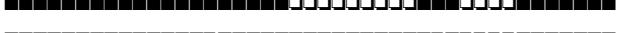





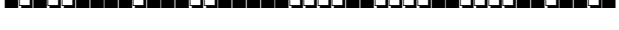





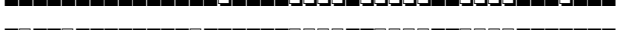
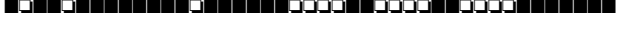











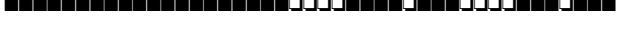








		SpolDB4		Deletion-based
SIT	spoligotype pattern	family	subfamily	family using SpolDB references
1		BEIJ	BEIJ	BEIJ
2		H	H2	T
3		H	H3	H
4		LAM	LAM3	T
5		T	T1	T
6		EAI	EAI1	EAI
7		T	T1	T
8		EAI	EAI5	EAI
9		X	X2	X
10		EAI	EAI5	EAI
11		EAI	EAI2	EAI
12		X	X3	X
13		X	X3	X
14		X	X3	X
15		T	T1	T
16		EAI	EAI5	EAI
17		LAM	LAM2	LAM
18		X	X2	X
19		EAI	EAI2	EAI
20		LAM	LAM1	LAM
21		CAS	CAS1	CAS
22		CAS	CAS	CAS
23		CAS	CAS	CAS
24		CAS	CAS1	CAS
25		CAS	CAS1	CAS
26		CAS	CAS1	CAS
27		U	U	CAS
28		EAI	EAI5	EAI
29		U	U	Unassignable
30		LAM	LAM9	Unassignable
31		T	T1	T
32		U	U	Unassignable
33		LAM	LAM3	LAM
34		T	S	T
35		H	H4	T
36		H	H3	H
37		T	T3	T
38		X	X2	X
39		T	T4	T
40		T	T4	T
41		LAM	LAM7	T
42		LAM	LAM9	LAM
43		EAI	EAI6	EAI
44		T	T5	T
45		H	H1	T
46		U	U	Unassignable
47		H	H1	T
48		EAI	EAI1	EAI
49		H	H3	H
50		H	H3	H
51		T	T1	T
52		T	T2	T

























































53		T	T1	T
54		MANU	MANU2	Unassignable
55		U	U	Unassignable
56		U	U	Unassignable
57		LAM	LAM10	T
58		T	T5	T
59		LAM	LAM11	LAM
60		LAM	LAM4	LAM
61		LAM	LAM10	T
62		H	H1	T
63		T	T1	T
64		LAM	LAM6	LAM
65		T	T1	T
66		H	H3	H
67		H	H3	H
68		T	T5	T
70		X	X3	X
71		T	S	T
72		EAI	EAI	Unassignable
73		T	T2	T
74		T	T1	T
75		H	H3	H
76		EAI	EAI5	EAI
77		T	T1	T
78		T	T1	T
79		LAM	LAM11	LAM
80		H	H1	T
81		LAM	LAM9	LAM
82		LAM	LAM11	LAM
83		T	T1	T
84		LAM	LAM11	LAM
85		LAM	LAM11	LAM
86		T	T1	T
87		LAM	LAM11	LAM
88		T	S	T
89		EAI	EAI2	EAI
90		U	U	animal
91		X	X3	X
92		X	X3	X
93		LAM	LAM5	LAM
94		T	T4	T
95		LAM	LAM6	LAM
96		EAI	EAI7	Unassignable
97		T	T1	T
98		LAM	LAM9	LAM
99		H	H3	H
100		MANU	MANU1	MANU
101		AFRI	AFRI2	AFRI
102		T	T1	T
103		H	H1	T
104		U	U	Unassignable
105		U	U	Unassignable
106		U	U	Unassignable
107		T	S	T
108		H	H3	H
109		EAI	EAI8	EAI

110		H	H3	H
111		LAM	LAM3	LAM
112		T	T3	T
113		EAI	EAI3	EAI
114		T	T1	T
115		LAM	LAM10	T
116		H	H3	H
117		T	T1	T
118		T	T2	T
119		X	X1	X
120		T	T1	T
121		H	H3	H
122		T	T1	T
123		T	T1	T
124		U	U	Unassignable
125		T	T2	T
126		EAI	EAI5	EAI
127		LAM	LAM3	T
128		T	T1	T
129		U	U	EAI
130		T	T1	LAM
131		H	H3	T
132		T	T2	LAM
133		T	T1	T
134		H	H3	H
135		T	T2	T
136		T	T1	T
137		X	X2	X
138		EAI	EAI5	EAI
139		EAI	EAI4	EAI
140		CAS	CAS1	CAS
141		CAS	CAS1	CAS
142		CAS	CAS	CAS
143		H	H1	T
144		T	T1	T
145		AFRI	AFRI	AFRI
146		AFRI	AFRI	Unassignable
147		U	U	Unassignable
148		U	U	Unassignable
149		T	T3	T
150		LAM	LAM9	LAM
151		H	H1	T
152		EAI	EAI5	EAI
153		T	T2	T
154		T	T1	T
155		T	T1	T
156		T	T1	T
157		T	T3	T
158		T	T3	T
159		T	T1	T
160		U	U	Unassignable
161		U	U	LAM
162		LAM	LAM9	LAM
163		LAM	LAM9	LAM
164		T	T1	T
165		H	H3	H

166		H	H3	H
167		T	T1	T
168		H	H3	H
169		U	U	Unassignable
170		T	T1	T
171		T	T1	T
172		U	U	Unassignable
173		T	T1	T
174		T	T1	T
175		T	T2	T
176		LAM	LAM5	LAM
177		LAM	LAM9	LAM
178		LAM	LAM4	LAM
179		LAM	LAM2	LAM
180		H	H3	H
181		AFRI	AFRI1	Unassignable
182		H	H1	T
183		H	H3	H
184		LAM	LAM11	LAM
185		X	X2	X
186		LAM	LAM7	T
187		AFRI	AFRI1	Unassignable
188		AFRI	AFRI	Unassignable
189		T	T1	T
190		BEIJ	BEIJ	BEIJ
191		T	T1	T
192		EAI	EAI5	EAI
193		LAM	LAM2	LAM
194		LAM	LAM2	LAM
195		LAM	LAM1	LAM
196		T	T1	T
197		X	X3	X
198		T	T1	T
199		U	U	X
200		X	X3	X
201		CAS	CAS	Unassignable
202		X	X2	X
203		CAS	CAS	CAS
204		EAI	EAI5	EAI
205		T	T1	T
206		LAM	LAM9	LAM
207		H	H3	H
208		EAI	EAI4	EAI
209		LAM	LAM12	LAM
210		T	T1	T
211		LAM	LAM3	LAM
212		T	S	T
213		LAM	LAM4	LAM
214		T	T5	T
215		T	T1	T
216		LAM	LAM9	LAM
217		X	X1	X
218		H	H1	T
219		T	T1	T
220		X	X2	X
221		X	X1	X

222		T	T1	T
223		T	T1	T
224		X	X1	X
225		X	X1	X
226		MANU	MANU2	X
227		H	H3	T
228		T	T1	T
229		U	U	Unassignable
230		T	T1	T
231		T	T5	T
232		U	U	Unassignable
233		T	T2	T
234		EAI	EAI5	EAI
235		EAI	EAI1	EAI
236		EAI	EAI5	EAI
237		U	U	H
238		U	U	Unassignable
239		U	U	Unassignable
240		U	U	Unassignable
241		T	T1	T
242		T	T1	T
243		T	T1	T
244		T	T1	T
245		T	T1	T
246		U	U	Unassignable
247		CAS	CAS1	CAS
248		EAI	EAI4	EAI
249		T	T1	T
250		BEIJ	BEIJ	Unassignable
251		T	T1	T
252		LAM	LAM9	LAM
253		T	T1	T
254		T	T5	T
255		BEIJ	BEIJ	BEIJ
256		EAI	EAI5	EAI
257		EAI	EAI5	EAI
258		T	T1	T
259		T	T1	T
260		BEIJ	BEIJ	BEIJ
261		T	T1	T
262		H	H4	T
263		T	T1	T
264		T	T1	T
265		BEIJ	BEIJ	BEIJ
266		T	T1	T
267		T	T1	T
268		H	H3	H
269		BEIJ	BEIJ-LIKE	Unassignable
270		EAI	EAI1	EAI
271		U	U	Unassignable
272		T	T1	T
273		LAM	LAM9	LAM
274		U	U	Unassignable
275		H	H3	T
276		T	T1	T
277		T	T1	T

278		T	T1	T
279		EAI	EAI2	EAI
280		T	T1	T
281		T	T1	T
282		X	X2	X
283		H	H1	T
284		T	T1	T
285		T	T1	T
286		U	U	animal
287		EAI	EAI2	EAI
288		CAS	CAS2	CAS
289		CAS	CAS1	CAS
290		LAM	LAM8	LAM
291		T	T1	T
292		EAI	EAI6	EAI
293		H	H3	H
294		H	H3	H
295		T	S	T
296		EAI	EAI3	EAI
297		EAI	EAI5	EAI
298		EAI	EAI3	EAI
299		U	U	EAI
300		EAI	EAI4	EAI
301		EAI	EAI5	EAI
302		X	X1	X
303		EAI	EAI1	EAI
304		T	T5	T
305		T	H37Rv	T
306		T	T1	T
307		H	H3	H
308		animal	BOV	animal
309		CAS	CAS1	CAS
310		H	H3	T
311		H	H3	T
312		H	H3	T
313		T	T2	T
314		H	H3	T
315		H	H1	T
316		H	H3	T
317		T	T2	T
318		AFRI	AFRI1	Unassignable
319		AFRI	AFRI2	AFRI
320		AFRI	AFRI	Unassignable
321		AFRI	AFRI1	Unassignable
322		AFRI	AFRI1	H
323		AFRI	AFRI1	Unassignable
324		AFRI	AFRI1	Unassignable
325		AFRI	AFRI1	Unassignable
326		AFRI	AFRI1	Unassignable
327		AFRI	AFRI2	AFRI
328		AFRI	AFRI2	AFRI
329		AFRI	AFRI2	AFRI
330		AFRI	AFRI	Unassignable
331		AFRI	AFRI2	AFRI
332		AFRI	AFRI	Unassignable
333		LAM	LAM5	LAM

334		T	T1	T
335		H	H3	Unassignable
336		X	X1	X
337		MANU	MANU1	MANU
338		EAI	EAI3	EAI
339		X	X2	X
340		EAI	EAI5	EAI
341		EAI	EAI5	EAI
342		EAI	EAI5	EAI
343		U	U	Unassignable
344		T	T1	T
345		T	T3	T
346		U	U	Unassignable
347		X	X2	X
348		X	X1	X
349		EAI	EAI1	EAI
350		X	X2	X
351		U	U	X
352		X	X1	X
353		T	T1	T
354		U	U	Unassignable
355		EAI	EAI5	EAI
356		CAS	CAS	CAS
357		CAS	CAS	CAS
358		T	T1	T
359		H	H1	T
360		H	H3	H
361		H	H4	T
362		T	T5	T
363		T	S	T
364		T	T1	T
365		T	T1	T
366		T	T1	T
367		LAM	LAM7	T
368		H	H3	H
369		H	H1	T
370		T	T1	T
371		H	H3	H
372		U	U	Unassignable
373		T	T1	T
374		U	U	Unassignable
375		LAM	LAM5	LAM
376		LAM	LAM3	LAM
377		LAM	LAM2	LAM
378		T	T1	T
379		T	T1	T
380		EAI	EAI5	EAI
381		CAS	CAS1	CAS
382		H	H1	T
383		H	H1	T
384		H	H1	T
385		T	T3	T
386		T	T1	T
387		T	T2	T
388		LAM	LAM9	LAM
389		LAM	LAM1	LAM

























































390		H	H3	T
391		LAM	LAM4	LAM
392		T	T2	T
393		T	T1	T
394		H	H3	T
395		T	T1	T
396		U	U	LAM
397		U	U	Unassignable
398		LAM	LAM9	LAM
399		H	H4	T
400		H	H1	T
401		T	S	T
402		U	U	LAM
403		LAM	LAM10	T
404		U	U	Unassignable
405		U	U	Unassignable
406		BEIJ	BEIJ-LIKE	Unassignable
407		CAS	CAS	CAS
408		X	X1	X
409		animal	BOV2	animal
410		T	T1	T
411		T	T1	T
412		LAM	LAM11	LAM
413		EAI	EAI5	EAI
414		EAI	EAI3	EAI
415		U	U	H
416		animal	BOV2	animal
417		T	T1	T
418		H	H3	H
419		LAM	LAM9	LAM
420		T	T2	T
421		U	U	animal
422		animal	BOV1	animal
423		LAM	LAM1	LAM
424		EAI	EAI2	EAI
425		X	X3	X
426		CAS	CAS	Unassignable
427		CAS	CAS1	CAS
428		CAS	CAS1	CAS
429		CAS	CAS1	CAS
430		T	T4	T
431		H	H1	T
432		T	T2	T
433		H	H3	H
434		U	U	Unassignable
435		LAM	LAM9	LAM
436		X	X2	X
437		AFRI	AFRI3	AFRI
438		AFRI	AFRI3	AFRI
439		X	X2	X
440		LAM	LAM9	LAM
441		T	T1	T
442		T	T3	T
443		U	U	LAM
444		T	T1	T
445		X	X2	X

446		T	T1	T
447		T	T1	T
448		H	H3	H
449		X	X1	X
450		U	U	X
451		T	H37Rv	T
452		LAM	LAM9	LAM
453		T	T1	T
454		T	T2	T
455		T	T1	T
456		EAI	EAI4	EAI
457		H	H3	H
458		U	U	Unassignable
459		U	U	EAI
460		EAI	EAI5	EAI
461		U	U	EAI
462		T	T1	T
463		H	H3	H
464		U	U	Unassignable
465		U	U	Unassignable
466		T	S	T
467		H	H3	T
468		EAI	EAI5	EAI
469		LAM	LAM9	LAM
470		EAI	EAI5	EAI
471		CAS	CAS1	CAS
472		H	H3	H
473		EAI	EAI3	EAI
474		EAI	EAI5	EAI
475		U	U	EAI
476		X	X2	X
477		EAI	EAI1	EAI
478		X	X2	X
479		animal	BOV3	animal
480		U	U	EAI
481		animal	BOV1	animal
482		animal	BOV1	animal
483		EAI	EAI2	EAI
484		U	U	X
485		CAS	CAS	CAS
486		CAS	CAS	CAS
487		H	H3	T
488		H	H1	T
489		X	X2	X
490		X	X1	X
491		X	X2	X
492		LAM	LAM9	LAM
493		EAI	EAI1	EAI
494		T	S	T
495		T	T1	T
496		T	T5	T
497		EAI	EAI5	EAI
498		T	T1	T
499		T	T1	T
500		T	T1	T
501		T	T1	T

502		T	T3	T
503		T	T2	T
504		T	T3	T
505		T	T3	T
506		T	T1	T
507		T	T1	T
508		T	T1	T
509		LAM	LAM9	LAM
510		U	U	Unassignable
511		H	H3	T
512		H	H3	H
513		T	T2	T
514		EAI	EAI4	EAI
515		T	T2	T
516		T	T1	T
517		EAI	EAI5	EAI
518		U	U	Unassignable
519		U	U	Unassignable
520		T	T1	T
521		T	T1	T
522		T	T1	T
523		U	U	Unassignable
524		H	H3	H
525		AFRI	AFRI1	Unassignable
526		U	U	animal
527		U	U	animal
528		EAI	EAI5	EAI
529		EAI	EAI1	EAI
530		AFRI	AFRI1	Unassignable
531		H	H1	T
532		AFRI	AFRI1	Unassignable
533		H	H3	H
534		U	U	LAM
535		T	T1	T
536		AFRI	AFRI	Unassignable
537		AFRI	AFRI	Unassignable
538		EAI	EAI1	EAI
539		animal	MICROTI	Unassignable
540		BEIJ	BEIJ	BEIJ
541		BEIJ	BEIJ	BEIJ
542		LAM	LAM4	LAM
543		U	U	Unassignable
544		T	T2	T
545		LAM	LAM2	LAM
546		X	X3	X
547		U	U	X
548		U	U	X
549		X	X3	X
550		EAI	EAI1	EAI
551		T	T1	T
552		X	X2	X
553		T	T2	T
554		T	T1	T
555		X	X1	X
556		T	T1	T
557		H	H1	T

558		T	S	T
559		T	S	T
560		U	U	Unassignable
561		T	T1	T
562		U	U	Unassignable
563		U	U	Unassignable
564		EAI	EAI4	EAI
565		T	T3	T
566		T	T2	T
567		MANU	MANU2	Unassignable
568		T	H37Rv	T
569		U	U	Unassignable
570		T	T1	T
571		H	H1	T
572		X	X2	X
573		T	T1	T
574		U	U	Unassignable
575		T	T1	T
576		X	X1	X
577		EAI	EAI5	EAI
578		LAM	LAM9	LAM
579		U	U	LAM
580		LAM	LAM1	LAM
581		T	T1	T
582		X	X1	X
583		MANU	MANU2	Unassignable
584		T	T2	T
585		BEIJ	BEIJ-LIKE	Unassignable
586		H	H3	H
587		AFRI	AFRI	Unassignable
588		U	U	CAS
589		U	U	Unassignable
590		T	T2	T
591		EAI	EAI6	EAI
593		animal	PIN	animal
594		animal	BOV1	animal
595		animal	BOV1	animal
596		H	H4	T
597		H	H4	T
598		CAS	CAS	CAS
599		CAS	CAS	CAS
600		CAS	CAS	CAS
601		CAS	CAS	Unassignable
602		U	U	Unassignable
603		H	H3	H
604		LAM	LAM2	LAM
605		U	U	LAM
606		U	U	LAM
607		U	U	Unassignable
608		U	U	Unassignable
609		H	H1	T
610		H	H1	T
611		T	T1	T
612		T	T1	T
613		T	T1	T
614		LAM	LAM9	LAM

615		H	H3	H
616		U	U	Unassignable
617		EAI	EAI5	EAI
618		EAI	EAI5	EAI
619		U	U	Unassignable
620		H	H1	T
621		BEIJ	BEIJ	BEIJ
622		EAI	EAI4	EAI
623		U	U	Unassignable
624		EAI	EAI3	EAI
625		EAI	EAI5	EAI
626		EAI	EAI5	EAI
627		T	T3	T
628		T	T1	T
629		U	U	EAI
630		T	T1	T
631		H	H3	H
632		BEIJ	BEIJ	BEIJ
633		LAM	LAM4	LAM
634		animal	PIN	animal
635		T	T1	T
636		animal	BOV	Unassignable
637		animal	PIN	Unassignable
638		LAM	LAM9	LAM
639		animal	MICROTI	animal
640		animal	PIN	animal
641		animal	MICROTI	animal
642		animal	MICROTI	animal
643		U	U	Unassignable
644		animal	CAP	animal
645		animal	CAP	animal
646		animal	CAP	animal
647		animal	CAP	animal
648		animal	CAP	animal
649		T	T1	T
650		animal	BOV	animal
651		animal	BOV	AFRI
652		EAI	EAI3	EAI
653		LAM	LAM9	LAM
654		EAI	EAI3	EAI
655		H	H3	H
656		H	H4	T
657		animal	BOV	animal
658		animal	BOV	animal
659		animal	BOV1	animal
660		animal	BOV1	animal
661		animal	BOV1	animal
662		animal	BOV	animal
663		animal	BOV1	animal
664		animal	BOV1	animal
665		animal	BOV1	animal
666		animal	BOV3	animal
667		animal	BOV	animal
668		animal	BOV1	animal
669		animal	BOV1	animal
670		animal	BOV1	animal

























































671		animal	BOV	animal
672		animal	BOV	animal
673		animal	BOV	animal
674		animal	BOV	animal
675		animal	BOV2	animal
676		animal	BOV2	animal
677		animal	BOV2	animal
678		animal	BOV2	animal
679		animal	BOV2	animal
680		animal	BOV2	animal
681		animal	BOV2	animal
682		animal	BOV2	animal
683		animal	BOV2	animal
684		animal	BOV1	animal
685		animal	BOV	animal
686		animal	BOV	animal
687		animal	BOV	animal
688		animal	BOV1	animal
689		animal	BOV1	animal
690		animal	BOV1	animal
691		animal	BOV1	animal
692		animal	BOV1	animal
693		animal	BOV	animal
694		animal	BOV	animal
695		animal	BOV	animal
696		animal	BOV1	animal
697		animal	BOV1	animal
698		animal	BOV1	animal
699		H	H3	H
700		AFRI	AFRI	Unassignable
701		AFRI	AFRI	Unassignable
702		EAI	EAI5	EAI
703		U	U	CAS
704		CAS	CAS1	CAS
705		T	T1	T
706		T	T1	T
707		T	S	T
708		X	X1	X
709		LAM	LAM9	LAM
710		U	U	Unassignable
711		EAI	EAI1	EAI
712		T	T2	T
713		T	T1	T
714		H	H3	H
715		AFRI	AFRI1	Unassignable
716		AFRI	AFRI	animal
717		T	T1	T
718		U	U	Unassignable
719		T	T1	T
720		U	U	LAM
721		U	U	Unassignable
722		EAI	EAI1	EAI
723		EAI	EAI4	EAI
724		U	U	Unassignable
725		LAM	LAM5	LAM
726		EAI	EAI5	EAI

727		H	H1	T
728		T	T3	T
729		LAM	LAM1	LAM
730		EAI	EAI1	EAI
731		LAM	LAM9	LAM
732		T	T1	T
733		EAI	EAI5	EAI
734		U	U	Unassignable
735		EAI	EAI1	EAI
736		T	T2	T
737		LAM	LAM9	LAM
738		LAM	LAM9	LAM
739		EAI	EAI5	EAI
740		H	H3	H
741		H	H3	H
742		H	H3	T
743		U	U	Unassignable
744		U	U	EAI
745		EAI	EAI1	EAI
746		H	H3	H
747		H	H3	H
748		H	H3	H
749		U	U	Unassignable
750		H	H3	T
751		T	T1	T
752		animal	BOV	animal
753		LAM	LAM9	LAM
754		CAS	CAS1	CAS
755		H	H3	H
756		EAI	EAI2	EAI
757		animal	BOV1	animal
758		EAI	EAI2	EAI
759		T	T1	T
760		H	H3	T
761		AFRI	AFRI3	AFRI
762		H	H4	T
763		EAI	EAI5	EAI
764		H	H3	H
765		T	T1	T
766		T	T1	T
767		EAI	EAI5	EAI
768		H	H3	H
769		H	H1	T
770		LAM	LAM9	LAM
771		T	T1	T
772		LAM	LAM10	T
773		U	U	Unassignable
774		T	T1	T
775		U	U	Unassignable
776		CAS	CAS	EAI
777		H	H4	T
778		animal	BOV1	animal
779		H	H3	H
780		U	U	Unassignable
781		H	H2	T
782		LAM	LAM9	LAM

783		T	T2	T
784		T	T2	T
785		T	T5	T
786		U	U	Unassignable
787		U	U	Unassignable
788		T	T1	T
789		T	S	T
790		U	U	Unassignable
791		H	H3	T
792		EAI	EAI5	EAI
793		X	X2	X
794		CAS	CAS1	CAS
795		T	T1	T
796		BEIJ	BEIJ-LIKE	Unassignable
797		animal	BOV1	animal
798		T	T1	T
799		AFRI	AFRI1	Unassignable
800		H	H3	T
801		T	T1	T
802		U	U	Unassignable
803		T	T1	T
804		T	T1	T
805		LAM	LAM11	LAM
806		EAI	EAI1	EAI
807		LAM	LAM11	LAM
808		LAM	LAM11	LAM
809		LAM	LAM11	LAM
810		T	T1	T
811		LAM	LAM4	LAM
812		LAM	LAM11	LAM
813		LAM	LAM11	LAM
814		LAM	LAM11	LAM
815		LAM	LAM11	LAM
816		LAM	LAM11	LAM
817		H	H4	T
818		animal	CAP	Unassignable
819		animal	BOV	animal
820		animal	BOV	animal
821		U	U	animal
822		LAM	LAM9	LAM
823		T	T1	T
824		T	T5	T
825		U	U	Unassignable
826		LAM	LAM2	LAM
827		T	S	T
828		LAM	LAM4	LAM
829		animal	BOV	animal
830		H	H3	H
831		T	S	T
832		T	T2	T
833		T	T1	T
834		U	U	Unassignable
835		H	H3	H
836		U	U	Unassignable
837		H	H3	T
838		LAM	LAM10	T

839		U	U	Unassignable
840		H	H3	H
841		LAM	LAM10	T
842		U	U	X
843		H	H3	H
844		LAM	LAM10	T
845		LAM	LAM10	T
846		T	T2	T
847		LAM	LAM10	T
848		T	T2	T
849		H	H3	H
850		LAM	LAM10	T
851		U	U	Unassignable
852		LAM	LAM10	T
853		T	T2	T
854		T	T1	T
855		H	H3	H
856		AFRI	AFRI3	AFRI
857		AFRI	AFRI3	AFRI
858		AFRI	AFRI3	AFRI
859		AFRI	AFRI	AFRI
860		AFRI	AFRI2	AFRI
861		AFRI	AFRI2	AFRI
862		T	T2	T
863		U	U	EAI
864		CAS	CAS	CAS
865		EAI	EAI3	EAI
866		LAM	LAM9	LAM
867		LAM	LAM5	LAM
868		X	X1	X
869		T	T1	T
870		T	T2	T
871		H	H3	H
872		T	T1	T
873		CAS	CAS	CAS
874		T	S	T
875		T	T2	T
876		CAS	CAS	CAS
877		U	U	Unassignable
878		X	X1	X
879		T	T1	T
880		T	T1	T
881		U	U	Unassignable
882		EAI	EAI6	EAI
883		H	H1	T
884		T	S	T
885		LAM	LAM5	LAM
886		X	X2	X
887		H	H3	H
888		T	T1	T
889		EAI	EAI6	EAI
890		T	T1	T
891		LAM	LAM9	LAM
892		EAI	EAI5	EAI
893		T	T1	T
894		EAI	EAI2	EAI

895		MANU	MANU1	MANU
896		T	T3	T
897		EAI	EAI2	EAI
898		H	H1	T
899		T	T1	T
900		U	U	LAM
901		U	U	X
902		LAM	LAM3	LAM
903		X	X2	X
904		T	T5	T
905		U	U	LAM
906		H	H3	H
907		T	T1	T
908		LAM	LAM2	LAM
909		U	U	Unassignable
910		U	U	Unassignable
911		T	T1	T
912		EAI	EAI5	EAI
913		T	T1	T
914		H	H3	H
915		H	H3	H
916		LAM	LAM9	LAM
917		T	T1	T
918		T	T1	LAM
919		H	H1	T
920		H	H4	T
921		H	H4	T
922		H	H4	T
923		H	H3	H
924		EAI	EAI5	EAI
925		H	H3	H
926		T	T1	T
927		U	U	Unassignable
928		T	T5	T
929		H	H3	T
930		LAM	LAM7	T
931		T	T1	T
932		T	T2	T
933		U	U	LAM
934		EAI	EAI5	EAI
935		H	H3	H
936		T	T2	T
937		MANU	MANU1	MANU
938		EAI	EAI5	EAI
939		EAI	EAI5	EAI
940		BEIJ	BEIJ	BEIJ
941		BEIJ	BEIJ	BEIJ
942		T	T2	T
943		T	T2	T
944		U	U	Unassignable
945		EAI	EAI5	EAI
946		H	H3	T
947		EAI	EAI5	EAI
948		H	H3	T
949		H	H3	H
950		LAM	LAM9	LAM

951		EAI	EAI5	EAI
952		CAS	CAS	CAS
953		T	T1	T
954		CAS	CAS1	CAS
955		U	U	Unassignable
956		U	U	Unassignable
957		animal	BOV	animal
958		MANU	MANU1	MANU
959		EAI	EAI1	EAI
960		LAM	LAM5	LAM
961		LAM	LAM9	LAM
962		EAI	EAI5	EAI
963		H	H3	H
964		LAM	LAM9	LAM
965		T	T1	T
966		T	T1	T
967		animal	PIN	animal
968		animal	BOV	animal
969		animal	BOV	Unassignable
970		animal	BOV	animal
971		animal	BOV	Unassignable
972		animal	BOV	animal
973		animal	BOV	animal
974		animal	BOV	animal
975		animal	BOV	animal
976		animal	BOV	animal
977		animal	BOV	animal
978		animal	CAP	animal
979		animal	CAP	animal
980		animal	BOV	animal
981		animal	BOV	animal
982		animal	BOV	animal
983		animal	BOV	animal
984		animal	BOV1	animal
985		animal	BOV1	animal
986		animal	BOV1	animal
987		animal	BOV	animal
988		animal	BOV	animal
989		animal	BOV1	animal
990		animal	BOV1	animal
991		animal	BOV1	animal
992		animal	BOV1	animal
993		animal	BOV1	animal
994		animal	BOV1	animal
995		animal	BOV1	animal
996		animal	BOV	animal
997		animal	BOV1	animal
998		animal	BOV	animal
999		animal	BOV	animal
1000		animal	BOV1	animal
1001		animal	BOV1	animal
1002		animal	BOV1	animal
1003		animal	BOV1	animal
1004		animal	BOV1	animal
1005		animal	BOV1	animal
1006		animal	BOV	animal

1007		animal	BOV	animal
1008		animal	BOV	animal
1009		animal	BOV1	animal
1010		animal	BOV1	animal
1011		animal	BOV	animal
1012		animal	BOV	animal
1013		animal	BOV	animal
1014		animal	BOV	animal
1015		animal	BOV	animal
1016		animal	BOV1	animal
1017		animal	BOV1	animal
1018		animal	BOV1	animal
1019		animal	BOV1	animal
1020		animal	BOV1	animal
1021		animal	BOV1	animal
1022		animal	BOV1	animal
1023		animal	BOV1	animal
1024		animal	BOV1	animal
1025		animal	BOV1	animal
1026		animal	BOV1	animal
1027		animal	BOV1	animal
1028		animal	BOV	animal
1029		animal	BOV1	animal
1030		animal	BOV1	animal
1031		animal	BOV1	animal
1032		animal	BOV1	animal
1033		animal	BOV1	animal
1034		animal	BOV1	animal
1035		animal	BOV1	animal
1036		animal	BOV1	animal
1037		animal	BOV1	animal
1038		animal	BOV1	animal
1039		animal	BOV1	animal
1040		animal	BOV1	animal
1041		animal	BOV1	animal
1042		animal	BOV1	animal
1043		animal	BOV1	animal
1044		animal	BOV1	animal
1045		animal	BOV1	animal
1046		animal	BOV1	animal
1047		animal	BOV1	animal
1048		animal	BOV1	animal
1049		MANU	MANU1	MANU
1050		U	U	Unassignable
1051		T	T1	T
1052		T	S	T
1053		T	T1	T
1054		H	H3	T
1055		H	H3	T
1056		T	T2	T
1057		LAM	LAM10	T
1058		T	T2	T
1059		U	U	EAI
1060		T	T1	T
1061		X	X1	X
1062		EAI	EAI5	EAI

1063		T	S	T
1064		LAM	LAM9	LAM
1065		LAM	LAM10	T
1066		LAM	LAM6	LAM
1067		T	T1	T
1068		T	S	T
1069		T	T1	T
1070		U	U	LAM
1071		LAM	LAM9	LAM
1072		LAM	LAM5	LAM
1073		T	T1	T
1074		LAM	LAM9	LAM
1075		LAM	LAM9	LAM
1076		LAM	LAM9	LAM
1077		T	T2	T
1078		T	T2	T
1079		T	T1	T
1080		X	X1	X
1081		X	X1	X
1082		EAI	EAI5	EAI
1083		U	U	Unassignable
1084		T	T1	T
1085		H	H3	T
1086		LAM	LAM4	LAM
1087		T	T1	T
1088		MANU	MANU2	Unassignable
1089		CAS	CAS	CAS
1090		EAI	EAI5	EAI
1091		CAS	CAS1	CAS
1092		CAS	CAS1	CAS
1093		CAS	CAS	CAS
1094		MANU	MANU2	Unassignable
1095		X	X1	X
1096		MANU	MANU2	Unassignable
1097		EAI	EAI3	EAI
1098		U	U	Unassignable
1099		T	T1	T
1100		X	X2	X
1101		U	U	X
1102		X	X1	X
1103		T	T1	T
1104		T	T5	T
1105		T	T1	T
1106		LAM	LAM9	LAM
1107		T	T1	T
1108		animal	CAP	Unassignable
1109		animal	CAP	animal
1110		T	T1	T
1111		T	T1	T
1112		T	T1	T
1113		T	S	T
1114		T	T2	T
1115		U	U	Unassignable
1116		H	H3	H
1117		H	H4	T
1118		animal	BOV1	animal

1119		X	X3	X
1120		CAS	CAS	CAS
1121		T	T1	T
1122		T	T1	T
1123		T	T5	Unassignable
1124		H	H3	H
1125		H	H1	T
1126		T	T5	T
1127		T	S	T
1128		T	S	T
1129		T	T1	T
1130		U	U	Unassignable
1131		T	T4	T
1132		H	H3	H
1133		T	T4	T
1134		H	H4	T
1135		H	H3	H
1136		H	H3	H
1137		T	T1	T
1138		T	T1	T
1139		H	H1	T
1140		H	H3	H
1141		T	T1	T
1142		U	U	H
1143		U	U	H
1144		T	T1	T
1145		LAM	LAM1	LAM
1146		T	T3	LAM
1147		T	T1	T
1148		T	T3	T
1149		U	U	Unassignable
1150		X	X3	X
1151		CAS	CAS	Unassignable
1152		T	T1	T
1153		AFRI	AFRI	animal
1154		LAM	LAM9	LAM
1155		H	H1	T
1156		LAM	LAM9	LAM
1157		X	X3	X
1158		animal	BOV3	animal
1159		H	H3	H
1160		LAM	LAM5	LAM
1161		T	T2	T
1162		BEIJ	BEIJ	BEIJ
1163		T	T3	T
1164		U	U	Unassignable
1165		H	H4	T
1166		T	T1	T
1167		T	T1	T
1168		BEIJ	BEIJ	BEIJ
1169		EAI	EAI2	EAI
1170		EAI	EAI2	EAI
1171		EAI	EAI2	EAI
1172		U	U	Unassignable
1173		T	T1	T
1174		H	H4	T

1175		U	U	Unassignable
1176		LAM	LAM9	LAM
1177		U	U	Unassignable
1178		U	U	Unassignable
1179		X	X1	X
1180		EAI	EAI5	EAI
1181		animal	BOV1	animal
1182		EAI	EAI1	EAI
1183		EAI	EAI1	EAI
1184		U	U	Unassignable
1185		animal	BOV1	animal
1186		U	U	Unassignable
1187		U	U	animal
1188		U	U	Unassignable
1189		U	U	animal
1190		EAI	EAI5	EAI
1191		T	T2	T
1192		MANU	MANU2	Unassignable
1193		MANU	MANU1	MANU
1194		CAS	CAS	Unassignable
1195		MANU	MANU2	Unassignable
1196		U	U	Unassignable
1197		U	U	CAS
1198		CAS	CAS1	CAS
1199		CAS	CAS	CAS
1200		U	U	CAS
1201		LAM	LAM1	LAM
1202		T	T1	T
1203		CAS	CAS1	CAS
1204		U	U	Unassignable
1205		H	H1	T
1206		U	U	Unassignable
1207		U	U	Unassignable
1208		H	H1	T
1209		T	T1	T
1210		LAM	LAM9	LAM
1211		T	S	T
1212		T	T1	T
1213		LAM	LAM2	LAM
1214		T	T1	T
1215		LAM	LAM2	LAM
1216		U	U	LAM
1217		EAI	EAI2	EAI
1218		U	U	X
1219		T	T1	T
1220		LAM	LAM9	LAM
1221		T	T1	T
1222		LAM	LAM9	LAM
1223		T	T1	T
1224		LAM	LAM3	LAM
1225		T	S	T
1226		U	U	Unassignable
1227		T	T5	T
1228		T	T2	T
1229		H	H3	H
1230		H	H1	T

1231		T	T5	T
1232		T	T2	T
1233		T	T1	T
1234		H	H3	H
1235		H	H3	H
1236		U	U	Unassignable
1237		T	T1	T
1238		H	H3	H
1239		U	U	Unassignable
1240		T	T1	T
1241		U	U	LAM
1242		H	H4	T
1243		H	H3	H
1244		T	S	H
1245		U	U	Unassignable
1246		H	H3	Unassignable
1247		MANU	MANU2	LAM
1248		T	T1	T
1249		LAM	LAM9	LAM
1250		U	U	Unassignable
1251		EAI	EAI1	EAI
1252		T	T1	T
1253		T	S	T
1254		X	X1	X
1255		T	T5	T
1256		H	H1	T
1257		U	U	Unassignable
1258		T	T4	T
1259		T	T1	T
1260		H	H3	T
1261		LAM	LAM7	T
1262		U	U	Unassignable
1263		CAS	CAS	EAI
1264		CAS	CAS	CAS
1265		T	T2	T
1266		CAS	CAS	CAS
1267		U	U	Unassignable
1268		T	T5	T
1269		H	H4	T
1270		X	X2	X
1271		T	S	T
1272		T	T3	T
1273		X	X3	X
1274		U	U	Unassignable
1275		U	U	Unassignable
1276		H	H4	T
1277		LAM	LAM9	LAM
1278		T	T1	T
1279		T	T5	T
1280		T	T1	T
1281		H	H4	T
1282		H	H3	T
1283		H	H3	T
1284		T	T1	T
1285		EAI	EAI6	EAI
1286		MANU	MANU1	MANU

1287		MANU	MANU1	MANU
1288		MANU	MANU2	LAM
1289		MANU	MANU2	Unassignable
1290		MANU	MANU2	Unassignable
1291		MANU	MANU2	Unassignable
1292		H	H4	T
1293		LAM	LAM3	LAM
1294		T	T1	T
1295		LAM	LAM3	LAM
1296		T	S	T
1297		animal	BOV2	animal
1298		animal	BOV	animal
1299		animal	BOV	animal
1300		X	X2	X
1301		T	T1	T
1302		T	T2	T
1303		animal	BOV	animal
1304		animal	BOV3	animal
1305		animal	BOV	AFRI
1306		animal	BOV	animal
1307		animal	BOV	AFRI
1308		animal	BOV	animal
1309		animal	BOV	animal
1310		animal	BOV	animal
1311		U	U	BEIJ
1312		CAS	CAS1	CAS
1313		EAI	EAI1	EAI
1314		CAS	CAS1	CAS
1315		X	X3	X
1316		EAI	EAI1	EAI
1317		T	T1	T
1318		T	T1	T
1319		CAS	CAS2	CAS
1320		CAS	CAS	CAS
1321		LAM	LAM1	LAM
1322		T	T1	T
1323		CAS	CAS1	CAS
1324		T	T1	T
1325		U	U	Unassignable
1326		EAI	EAI5	EAI
1327		CAS	CAS1	CAS
1328		H	H1	T
1329		X	X1	X
1330		T	T5	T
1331		T	T1	T
1332		T	T2	T
1333		T	S	T
1334		T	S	T
1335		LAM	LAM3	LAM
1336		T	S	T
1337		LAM	LAM9	LAM
1338		U	U	Unassignable
1339		T	T2	T
1340		EAI	EAI6	EAI
1341		X	X2	X
1342		EAI	EAI3	EAI

1343		CAS	CAS1	CAS
1344		CAS	CAS1	CAS
1345		CAS	CAS	CAS
1346		CAS	CAS1	CAS
1347		T	T1	T
1348		T	T1	T
1349		T	T1	T
1350		U	U	Unassignable
1351		U	U	Unassignable
1352		U	U	Unassignable
1353		U	U	Unassignable
1354		LAM	LAM3	LAM
1355		T	T2	T
1356		T	S	T
1357		CAS	CAS	CAS
1358		T	T1	T
1359		H	H1	T
1360		H	H3	H
1361		T	T2	T
1362		U	U	animal
1363		U	U	Unassignable
1364		BEIJ	BEIJ	BEIJ
1365		EAI	EAI5	EAI
1366		X	X1	X
1367		LAM	LAM5	LAM
1368		U	U	Unassignable
1369		EAI	EAI5	EAI
1370		T	T5	T
1371		LAM	LAM8	LAM
1372		EAI	EAI5	EAI
1373		EAI	EAI1	EAI
1374		U	U	Unassignable
1375		EAI	EAI6	EAI
1376		EAI	EAI5	EAI
1377		EAI	EAI5	EAI
1378		CAS	CAS	Unassignable
1379		CAS	CAS	Unassignable
1380		CAS	CAS	EAI
1381		CAS	CAS	EAI
1382		H	H3	H
1383		T	T2	T
1384		H	H4	T
1385		T	T1	T
1386		U	U	Unassignable
1387		T	T5	T
1388		EAI	EAI1	EAI
1389		EAI	EAI1	EAI
1390		EAI	EAI5	EAI
1391		U	U	Unassignable
1392		EAI	EAI5	EAI
1393		U	U	Unassignable
1394		X	X1	X
1395		EAI	EAI5	EAI
1396		U	U	Unassignable
1397		EAI	EAI5	EAI
1398		U	U	CAS

1399		EAI	EAI5	EAI
1400		EAI	EAI5	EAI
1401		CAS	CAS1	CAS
1402		U	U	Unassignable
1403		U	U	Unassignable
1404		EAI	EAI1	EAI
1405		CAS	CAS1	CAS
1406		EAI	EAI6	EAI
1407		EAI	EAI5	EAI
1408		EAI	EAI5	EAI
1409		EAI	EAI6	EAI
1410		U	U	Unassignable
1411		EAI	EAI6	EAI
1412		EAI	EAI6	EAI
1413		EAI	EAI1	EAI
1414		EAI	EAI6	EAI
1415		EAI	EAI1	EAI
1416		EAI	EAI6	EAI
1417		EAI	EAI6	EAI
1418		U	U	Unassignable
1419		U	U	Unassignable
1420		U	U	EAI
1421		U	U	Unassignable
1422		CAS	CAS	CAS
1423		EAI	EAI5	EAI
1424		EAI	EAI7	Unassignable
1425		EAI	EAI6	EAI
1426		T	T3	T
1427		EAI	EAI5	EAI
1428		EAI	EAI1	EAI
1429		U	U	CAS
1430		U	U	Unassignable
1431		EAI	EAI1	EAI
1432		U	U	Unassignable
1433		EAI	EAI6	EAI
1434		U	U	Unassignable
1435		EAI	EAI1	EAI
1436		U	U	Unassignable
1437		CAS	CAS1	CAS
1438		EAI	EAI6	EAI
1439		animal	BOV	animal
1440		animal	BOV	animal
1441		animal	BOV	animal
1442		animal	BOV	AFRI
1443		animal	BOV	animal
1444		T	T1	T
1445		LAM	LAM9	LAM
1446		H	H4	T
1447		H	H4	T
1448		H	H4	T
1449		U	U	Unassignable
1450		U	U	Unassignable
1451		U	U	Unassignable
1452		H	H4	T
1453		MANU	MANU2	Unassignable
1454		U	U	Unassignable

1455		H	H4	T
1456		H	H4	T
1457		H	H4	T
1458		U	U	Unassignable
1459		X	X1	X
1460		MANU	MANU2	Unassignable
1461		H	H4	T
1462		U	U	Unassignable
1463		T	T1	T
1464		U	U	Unassignable
1465		AFRI	AFRI3	AFRI
1466		LAM	LAM11	LAM
1467		CAS	CAS	EAI
1468		LAM	LAM11	LAM
1469		X	X1	Unassignable
1470		X	X1	Unassignable
1471		LAM	LAM11	LAM
1472		CAS	CAS	EAI
1473		MANU	MANU1	MANU
1474		T	T1	T
1475		T	T1	T
1476		U	U	LAM
1477		EAI	EAI2	EAI
1478		EAI	EAI2	EAI
1479		U	U	animal
1480		H	H4	T
1481		MANU	MANU2	Unassignable
1482		MANU	MANU2	Unassignable
1483		T	T1	T
1484		MANU	MANU2	Unassignable
1485		MANU	MANU2	Unassignable
1486		X	X3	X
1487		U	U	Unassignable
1488		U	U	EAI
1489		EAI	EAI5	EAI
1490		EAI	EAI2	EAI
1491		T	T2	T
1492		U	U	Unassignable
1493		EAI	EAI5	EAI
1494		T	T1	T
1495		EAI	EAI5	EAI
1496		EAI	EAI6	EAI
1497		EAI	EAI5	EAI
1498		U	U	Unassignable
1499		EAI	EAI2	EAI
1500		U	U	animal
1501		EAI	EAI2	EAI
1502		MANU	MANU1	MANU
1503		EAI	EAI6	EAI
1504		EAI	EAI5	EAI
1505		LAM	LAM9	LAM
1506		EAI	EAI6	EAI
1507		EAI	EAI6	EAI
1508		EAI	EAI5	EAI
1509		U	U	animal
1510		U	U	animal

1511		EAI	EAI2	EAI
1512		EAI	EAI2	EAI
1513		EAI	EAI6	EAI
1514		U	U	T
1515		U	U	Unassignable
1516		U	U	Unassignable
1517		U	U	EAI
1518		U	U	Unassignable
1519		U	U	Unassignable
1520		U	U	Unassignable
1521		U	U	Unassignable
1522		MANU	MANU2	LAM
1523		MANU	MANU2	Unassignable
1524		U	U	Unassignable
1525		LAM	LAM3	LAM
1526		T	T1	T
1527		H	H1	X
1528		LAM	LAM9	LAM
1529		U	U	H
1530		LAM	LAM9	LAM
1531		U	U	X
1532		X	X1	X
1533		H	H3	H
1534		LAM	LAM5	LAM
1535		LAM	LAM9	LAM
1536		T	S	LAM
1537		LAM	LAM3	LAM
1538		H	H3	T
1539		H	H3	H
1540		LAM	LAM9	LAM
1541		LAM	LAM9	LAM
1542		X	X2	X
1543		U	U	Unassignable
1544		T	T2	T
1545		LAM	LAM9	LAM
1546		EAI	EAI5	EAI
1547		T	T3	T
1548		U	U	Unassignable
1549		LAM	LAM11	LAM
1550		T	T1	T
1551		CAS	CAS	CAS
1552		H	H1	T
1553		T	T1	T
1554		LAM	LAM4	LAM
1555		U	U	Unassignable
1556		T	T1	T
1557		H	H1	T
1558		T	T1	T
1559		U	U	Unassignable
1560		T	T1	T
1561		U	U	Unassignable
1562		U	U	Unassignable
1563		T	T1	T
1564		X	X1	X
1565		T	T1	T
1566		T	T1	T

1567		T	T1	T
1568		H	H4	T
1569		H	H3	T
1570		U	U	Unassignable
1571		EAI	EAI4	EAI
1572		T	T2	T
1573		EAI	EAI5	EAI
1574		T	T1	T
1575		T	T4	T
1576		T	T1	T
1577		T	S	T
1578		T	T2	T
1579		U	U	animal
1580		T	T1	T
1581		H	H4	T
1582		T	T1	T
1583		T	T1	T
1584		T	T1	T
1585		H	H3	H
1586		H	H1	T
1587		T	S	T
1588		LAM	LAM9	LAM
1589		LAM	LAM7	T
1590		CAS	CAS1	CAS
1591		CAS	CAS2	CAS
1592		U	U	AFRI
1593		H	H3	T
1594		T	T1	T
1595		animal	BOV	animal
1596		animal	CAP	animal
1597		T	T1	T
1598		animal	BOV1	animal
1599		animal	BOV	animal
1600		animal	CAP	animal
1601		animal	BOV	animal
1602		animal	BOV	animal
1603		animal	BOV1	animal
1604		animal	CAP	animal
1605		animal	BOV	animal
1606		CAS	CAS	Unassignable
1607		LAM	LAM11	LAM
1608		LAM	LAM9	LAM
1609		EAI	EAI5	EAI
1610		LAM	LAM6	LAM
1611		H	H3	H
1612		U	U	Unassignable
1613		T	T2	T
1614		X	X1	Unassignable
1615		T	T2	T
1616		CAS	CAS	CAS
1617		X	X3	X
1618		U	U	Unassignable
1619		X	X1	X
1620		LAM	LAM9	LAM
1621		T	T2	T
1622		T	T2	T

1623		T	T1	T
1624		LAM	LAM3	LAM
1625		animal	BOV2	animal
1626		T	T1	T
1627		T	T2	T
1628		EAI	EAI5	EAI
1629		H	H1	T
1630		T	T1	T
1631		T	T1	T
1632		U	U	Unassignable
1633		LAM	LAM9	LAM
1634		MANU	MANU2	H
1635		MANU	MANU2	animal
1636		animal	CAP	animal
1637		animal	BOV1	animal
1638		MANU	MANU2	Unassignable
1639		LAM	LAM9	LAM
1640		H	H3	H
1641		T	T3	T
1642		T	T1	T
1643		T	T1	T
1644		H	H1	T
1645		T	T1	T
1646		H	H3	LAM
1647		T	H37Rv	T
1648		EAI	EAI5	EAI
1649		EAI	EAI1	EAI
1650		U	U	Unassignable
1651		BEIJ	BEIJ	BEIJ
1652		H	H1	T
1653		U	U	Unassignable
1654		EAI	EAI5	EAI
1655		T	T3	T
1656		U	U	Unassignable
1657		U	U	Unassignable
1658		H	H1	T
1659		U	U	Unassignable
1660		T	T2	T
1661		LAM	LAM2	LAM
1662		T	T2	T
1663		H	H3	Unassignable
1664		T	T2	T
1665		U	U	Unassignable
1666		animal	BOV	animal
1667		animal	BOV1	animal
1668		animal	BOV	animal
1669		animal	BOV	animal
1670		animal	BOV	animal
1671		LAM	LAM9	LAM
1672		T	T1	T
1673		animal	BOV	animal
1674		BEIJ	BEIJ	BEIJ
1675		CAS	CAS1	CAS
1676		MANU	MANU1	MANU
1677		U	U	CAS
1678		H	H3	H

1679		T	T1	T
1680		EAI	EAI3	EAI
1681		H	H1	T
1682		animal	BOV1	animal
1683		T	T1	T
1684		U	U	Unassignable
1685		LAM	LAM9	LAM
1686		H	H1	T
1687		T	T1	T
1688		T	T1	T
1689		U	U	LAM
1690		MANU	MANU2	Unassignable
1691		LAM	LAM2	LAM
1692		X	X1	X
1693		LAM	LAM5	LAM
1694		LAM	LAM5	LAM
1695		LAM	LAM2	LAM
1696		LAM	LAM5	LAM
1697		LAM	LAM9	LAM
1698		U	U	LAM
1699		LAM	LAM9	LAM
1700		T	T1	T
1701		LAM	LAM9	LAM
1702		LAM	LAM5	LAM
1703		LAM	LAM2	LAM
1704		LAM	LAM5	LAM
1705		T	T1	T
1706		LAM	LAM9	LAM
1707		T	T1	T
1708		LAM	LAM9	LAM
1709		LAM	LAM5	LAM
1710		LAM	LAM4	LAM
1711		LAM	LAM2	LAM
1712		LAM	LAM1	LAM
1713		LAM	LAM1	LAM
1714		LAM	LAM9	LAM
1715		LAM	LAM4	LAM
1716		T	T3	T
1717		X	X1	X
1718		X	X1	Unassignable
1719		LAM	LAM2	LAM
1720		EAI	EAI4	EAI
1721		X	X1	X
1722		animal	BOV2	animal
1723		animal	BOV2	animal
1724		U	U	animal
1725		EAI	EAI6	EAI
1726		EAI	EAI5	EAI
1727		T	S	T
1728		T	S	T
1729		U	U	Unassignable
1730		animal	BOV1	animal
1731		EAI	EAI4	EAI
1732		EAI	EAI1	EAI
1733		T	T1	T
1734		EAI	EAI1	EAI

1735		H	H3	H
1736		U	U	Unassignable
1737		T	T1	T
1738		T	T1	T
1739		T	T1	T
1740		U	U	Unassignable
1741		EAI	EAI5	EAI
1742		H	H1	T
1743		H	H3	H
1744		U	U	X
1745		T	T3	T
1746		T	S	T
1747		T	T5	T
1748		H	H3	T
1749		H	H3	H
1750		LAM	LAM4	LAM
1751		X	X3	X
1752		U	U	LAM
1753		T	T1	T
1754		T	T1	T
1755		LAM	LAM1	LAM
1756		X	X3	X
1757		U	U	Unassignable
1758		U	U	LAM
1759		LAM	LAM8	LAM
1760		LAM	LAM3	LAM
1761		T	T1	T
1762		EAI	EAI3	EAI
1763		H	H3	H
1764		U	U	Unassignable
1765		CAS	CAS1	CAS
1766		LAM	LAM9	LAM
1767		T	T1	T
1768		LAM	LAM6	LAM
1769		LAM	LAM1	LAM
1770		H	H2	T
1771		H	H1	T
1772		U	U	Unassignable
1773		T	T1	T
1774		T	T4	T
1775		EAI	EAI2	EAI
1776		U	U	Unassignable
1777		CAS	CAS1	CAS
1778		U	U	Unassignable
1779		T	T1	T
1780		U	U	Unassignable
1781		EAI	EAI2	EAI
1782		AFRI	AFRI1	LAM
1783		LAM	LAM10	T
1784		animal	BOV	animal
1785		T	T1	T
1786		T	T1	T
1787		CAS	CAS1	CAS
1788		U	U	Unassignable
1789		CAS	CAS1	CAS
1790		T	T1	T

1791		LAM	LAM1	LAM
1792		H	H3	Unassignable
1793		U	U	T
1794		T	T3	T
1795		U	U	Unassignable
1796		T	T1	T
1797		T	T2	T
1798		H	H1	T
1799		T	T4	T
1800		T	T1	T
1801		EAI	EAI1	EAI
1802		H	H3	H
1803		LAM	LAM9	LAM
1804		H	H3	H
1805		U	U	Unassignable
1806		T	T5	T
1807		H	H1	T
1808		T	T5	T
1809		U	U	Unassignable
1810		animal	CAP	animal
1811		T	T2	T
1812		H	H3	H
1813		H	H1	T
1814		T	T1	T
1815		LAM	LAM1	LAM
1816		animal	BOV1	animal
1817		animal	BOV	animal
1818		animal	BOV3	animal
1819		animal	BOV	animal
1820		animal	BOV1	animal
1821		T	T1	T
1822		H	H1	T
1823		X	X1	X
1824		T	T1	T
1825		H	H3	T
1826		X	X1	X
1827		H	H3	T
1828		LAM	LAM9	LAM
1829		T	T1	T
1830		LAM	LAM3	LAM
1831		U	U	Unassignable
1832		LAM	LAM9	LAM
1833		T	T1	T
1834		T	T3	T
1835		T	T2	T
1836		T	T1	T
1837		U	U	Unassignable
1838		LAM	LAM9	LAM
1839		LAM	LAM5	LAM
1840		T	S	T
1841		U	U	LAM
1842		animal	BOV	animal
1843		T	T2	T
1844		LAM	LAM9	LAM
1845		animal	BOV	animal
1846		animal	BOV3	animal

1847		animal	BOV1	animal
1848		animal	BOV	animal
1849		animal	BOV	animal
1850		animal	BOV2	animal
1851		animal	BOV	animal
1852		animal	BOV1	animal
1853		animal	BOV	animal
1854		animal	BOV1	animal
1855		animal	BOV2	animal
1856		animal	BOV2	animal
1857		animal	BOV1	animal
1858		animal	BOV2	animal
1859		animal	BOV	animal
1860		animal	BOV2	animal
1861		animal	BOV2	animal
1862		animal	BOV	animal
1863		animal	BOV2	animal
1864		EAI	EAI5	EAI
1865		EAI	EAI5	EAI
1866		EAI	EAI5	EAI
1867		AFRI	AFRI1	Unassignable
1868		EAI	EAI2	EAI
1869		U	U	Unassignable
1870		LAM	LAM4	LAM
1871		T	T5	T
1872		T	T1	T
1873		LAM	LAM11	LAM
1874		U	U	Unassignable
1875		EAI	EAI5	EAI
1876		AFRI	AFRI1	Unassignable
1877		T	T1	T
1878		CAS	CAS1	CAS
1879		EAI	EAI1	EAI
1880		U	U	LAM
1881		EAI	EAI5	EAI
1882		CAS	CAS1	Unassignable
1883		CAS	CAS1	CAS
1884		U	U	Unassignable
1885		T	T1	T
1886		EAI	EAI5	EAI
1887		U	U	CAS
1888		T	T1	T
1889		T	T1	T
1890		T	T2	T
1891		H	H3	H
1892		U	U	Unassignable
1893		H	H3	T
1894		LAM	LAM9	LAM
1895		LAM	LAM4	LAM
1896		MANU	MANU3	Unassignable
1897		U	U	Unassignable
1898		EAI	EAI7	Unassignable
1899		T	T1	T
1900		EAI	EAI5	EAI
1901		EAI	EAI4	EAI
1902		EAI	EAI4	EAI

1903		EAI	EAI4	EAI
1904		U	U	Unassignable
1905		T	T1	T
1906		LAM	LAM6	LAM
1907		U	U	Unassignable
1908		H	H3	T
1909		T	T1	T
1910		T	T3	T
1911		T	T3	T
1912		T	T5	T
1913		T	T5	T
1914		LAM	LAM6	LAM
1915		T	S	T
1916		T	T1	T
1917		T	T1	T
1918		U	U	Unassignable
1919		H	H3	H
1920		U	U	CAS
1921		T	T2	T
1922		X	X1	X
1923		U	U	Unassignable
1924		LAM	LAM7	T
1925		U	U	Unassignable
1926		T	T1	T
1927		H	H1	T
1928		U	U	Unassignable
1929		U	U	Unassignable
1930		T	T1	T
1931		H	H3	H
1932		animal	BOV1	animal
1933		LAM	LAM9	LAM
1934		H	H1	T
1935		LAM	LAM1	LAM
1936		T	T1	T
1937		LAM	LAM7	T
1938		T	S	T
1939		H	H3	H