## FREQUENCY DISTRIBUTIONS OF ENGLISH TRIGRAPHS

Frequency distributions of English trigraphs appearing in 50,000 letters of government plaintext telegrams.

Table B-1. The 56 trigraphs appearing 100 or more times, arranged according to their absolute frequencies, accompanied by the logarithms of their assigned probabilities.

F	L <sub>10</sub> (F)	L <sub>586</sub> (F)		F	L <sub>10</sub> (F)	L <sub>586</sub> (F)	F	L <sub>10</sub> (F)	L <sub>586</sub> (F)
ENT569	2.76	.99	ТОР	174	2.24	.82	EIG135	2.13	.79
ION260	2.41	.88	NTH	171 2	2.23	.82	FIV135	2.13	.79
AND228	2.36	.86	TWE	1702	2.23	.82	MEN131	2.12	.78
ING226	2.35	.86	TWO	163	2.21	.81	SEV131	2.12	.78
IVE225	2.35	.86	ATI	160	2.20	.81	ERS126	2.10	.78
TIO221		1	THR	158	2.20	.81	UND125	2.10	.78
FOR218			NTY	157 2	2.20	.81	NET118	2.07	.77
OUR211			HRE	153 2	2.18	.80	PER115	2.06	.76
THI211			WEN	153 2	2.18	.80	STA115	2.06	.76
ONE210	2.32	.85	FOU	152	2.18	.80	TER115	2.06	.76
NIN207			ORT	146	2.16	.80	EQU114	2.06	.76
STO202	2.31	.84	REE	146	2.16	.80	RED113	2.05	.76
EEN196	2.29	.84	SIX	146	2.16	.80	TED112	2.05	.76
GHT196	2.29	.84	ASH	143 2	2.16	.80	ERI109	2.04	.76
INE192			DAS	140 2	2.15	.79	HIR106	2.03	.75
VEN190			IGH	140 2	2.15	.79	IRT105	2.02	.75
EVE177			ERE				DER101	2.00	.74
EST176	2.25	.82	COM	136	2.13	.79	DRE100	2.00	.74
TEE174	2.24	.82	ATE	135 2	2.13	.79			

Table B-2. The 56 trigraphs appearing 100 or more times, arranged in alphabetic order by their first letters, then by absolute frequencies, accompanied by the logarithms of their assigned probabilities.

				T			i -	
F	L <sub>10</sub> (F)	L <sub>586</sub> (F)	F	L <sub>10</sub> (F)	L <sub>586</sub> (F)	F	L <sub>10</sub> (F)	L <sub>586</sub> (F)
AND228	2.36	.86	GHT19	62.29	.84	REE 146	2.16	.80
ATI160			0.222	1		RED113		1
ASH143		l l	HRE15	3 2.18	.80			
ATE135	2.13	.79	HIR10	62.03	.75	STO202	2.31	.84
						SIX146		l I
COM136	2.13	.79	ION26	$0 _{2.41}$	.88	SEV131		1
			ING22			STA115		
DAS140	2.15	.79	IVE22	1	1 1			
DER101	2.00	.74	INE19	4	l .			
DRE100	2.00	.74	IGH14	- E	1	TIO221	2.34	.85
			IRT10	l l	1	THI211		
ENT569	2.76	.99			<u> </u>	TEE174	ı	
EEN196	2.29	.84	MEN 13	1 2.12	.78	TOP174	2.24	.82
EVE177	2.25	.82				TWE170	2.23	.82
EST176	2.25	.82	NIN20	7 2.32	.85	TWO162	2.21	.81
ERE138			NTH17			THR158		4
EIG135	2.13	.79	NTY15	72.20	.81	TER115	2.06	.76
ERS126	2.10	.78	NET11	8 2.07	.77	TED112	2.05	.76
EQU114								
ERI109			OUR21	1 2.32	.85	UND125	2.10	.78
			ONE21					
FOR218	2.34	.85	ORT14		i i	VEN190	2.28	.83
FOU152								
FIV135			PER11	5 2.06	.76	WEN153	2.18	.80
		İ						
							L	

Table B-3. The 56 trigraphs appearing 100 or more times, arranged in alphabetic order by their second letters, then by absolute frequencies, accompanied by the logarithms of their assigned probabilities.

		<u> </u>						
F	L <sub>10</sub>	L	F	L <sub>10</sub>	T.	F	т	T
	(F)	L <sub>586</sub> (F)	1	(F)	L <sub>586</sub> (F)	r	L <sub>10</sub> (F)	L <sub>586</sub> (F)
	<del>  `</del>			<u> </u>		<del></del>		
DAS140	2.15	.79	SIX14			ERS126		
			EIG138			ERI109		
EEN196			FIV138			IRT105		
VEN190			HIR10	2.03	.75	DRE100	2.00	.74
TEE174								
WEN153		l t	ENT569					
REE146		1	AND228			EST176	2.25	.82
MEN131			ING220	[2.35]	.86	ASH143	2.16	.80
SEV131	2.12	.78	ONE210	2.32	.85			
NET118	2.07	.77	INE195	2 2.28	.83			
PER115	2.06	.76	UND128	2.10	.78	STO202	2.31	.84
TER115	2.06	.76				NTH171	2.23	.82
RED113	2.05	.76				ATI160	2.20	.81
TED112	2.05	.76	ION260	2.41	.88	NTY157	2.20	.81
DER101	2.00	.74	FOR218	2.34	.85	ATE135	2.13	.79
			TOP174	2.24	.82	STA115	2.06	.76
IGH140	2.15	.79	FOU155	22.18	.80			
			COM136	2.13	.79	OUR211	2.32	.85
THI211	2.32	.85						
GHT196	2.29	.84	EQU114	2.06	.76	IVE225	2.35	.86
THR158	2.20	.81	·			EVE177		
			HRE153	2.18	.80			
TIO221	2.34	.85	ORT146	2.16	.80	TWE170	2.23	$ _{.82}$
NIN207	2.32	.85	ERE138	2.14	.79	TWO163		
		·						

Table B-4. The 56 trigraphs appearing 100 or more times, arranged in alphabetic order by their third letters, then by absolute frequencies, accompanied by the logarithms of their assigned probabilities.

				T		· · · · · · · · · · · · · · · · · · ·	l	
F	L <sub>10</sub>	L <sub>586</sub>	F	L <sub>10</sub>	L <sub>586</sub>	F	L <sub>10</sub>	L <sub>586</sub>
	(F)	(F)		(F)	(F)		(F)	( <b>F</b> )
STA115	2.06	.76	THI21	1 2.32	.85	TER115	2.06	.76
ł			ATI16	2.20	.81	HIR106	2.03	.75
AND228	2.36	.86	ERI10	9 2.04	.76	DER101	2.00	.74
UND125	2.10	.78						
RED113	2.05	.76	COM13	32.13	.79	DAS140	2.15	.79
TED112	2.05	.76				ERS126	2.10	.78
	ı	l	ION26	2.41	.88			
IVE225	2.35	.86	NIN20	7 2.32	.85	ENT569	2.76	.99
ONE210	2.32	.85	EEN19			GHT196	2.29	.84
INE192	2.28	.83	VEN19	2.28	.83	EST176	2.25	.82
EVE177	2.25	.82	WEN15	3 2.18	.80	ORT146	2.16	.80
TEE174	2.24	.82	MEN13	1 2.12	.78	NET118	2.07	.77
TWE170	2.23	.82				IRT105	2.02	.75
HRE153	2.18	.80	TIO22	1 2.34	.85			
REE146	2.16	.80	STO20	2 2.31	.84	FOU152	2.18	.80
ERE138	2.14	.79	TWO16	3 2.21	.81	EQU114	2.06	.76
ATE135	2.13	.79		}		<del>l</del>		
DRE100	2.00	.74			[	FIV135	2.13	.79
			TOP17	2.24	.82	SEV131	2.12	.78
ING226	2.35	.86					!	
EIG135	2.13	.79		1				
		1	FOR21	2.34	.85	SIX146	2.16	.80
NTH171	2.23	.82	OUR21	1 2.32	.85			
ASH143	2.16	.80	THR15	3 2.20	.81			
IGH140	2.15	.79	PER11	52.06	.76	NTY157	2.20	.81
				1				