Répartition des langues

SOMME de Nombre d'occurrences par lang20_1

English

32483
31.46%

Dutch

13244
12.83%

French

6643
6.43%

6679
6.47%

German

6640
6.43%

Italian

6364
6.16%

Japanese

6273
6.07%

Korean

6503
6.30%

Polish

18432
17.85%

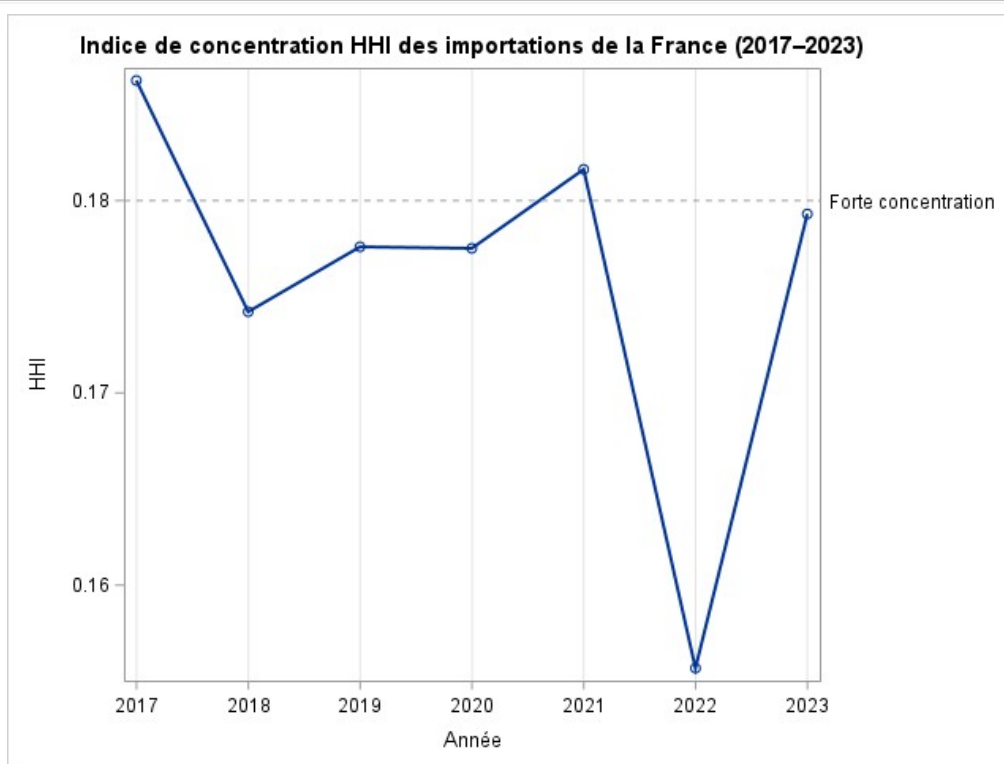Spanish
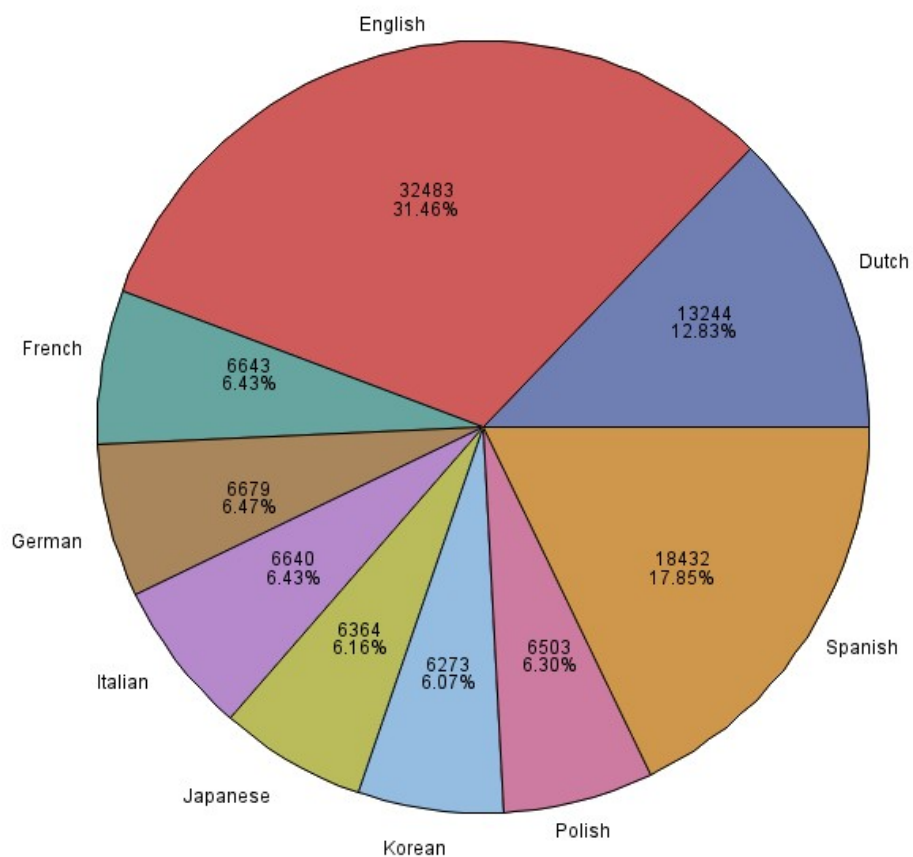
Classement des partenaires selon les quantités importées par la France (2017–2023)

Obs.	partenaire	q_totale
1	BEL	380902449.05
2	DEU	221275273.53
3	ESP	157020155.38
4	ITA	96659701.82
5	NLD	95831284.57
6	USA	94227120.15
7	CAN	46135403.98
8	GBR	40630507.57
9	POL	27358281.57
10	AUS	24242796.21
11	IRL	8896969.43
12	JPN	3406651.42
13	KOR	3376402.84
14	MEX	2082768.75
15	CHL	1788803.87

Part des principaux partenaires dans les importations de la France en quantité

Pays dont la France dépend le plus par secteur (2022)

Indice de concentration HHI des importations de la France (2017–2023)
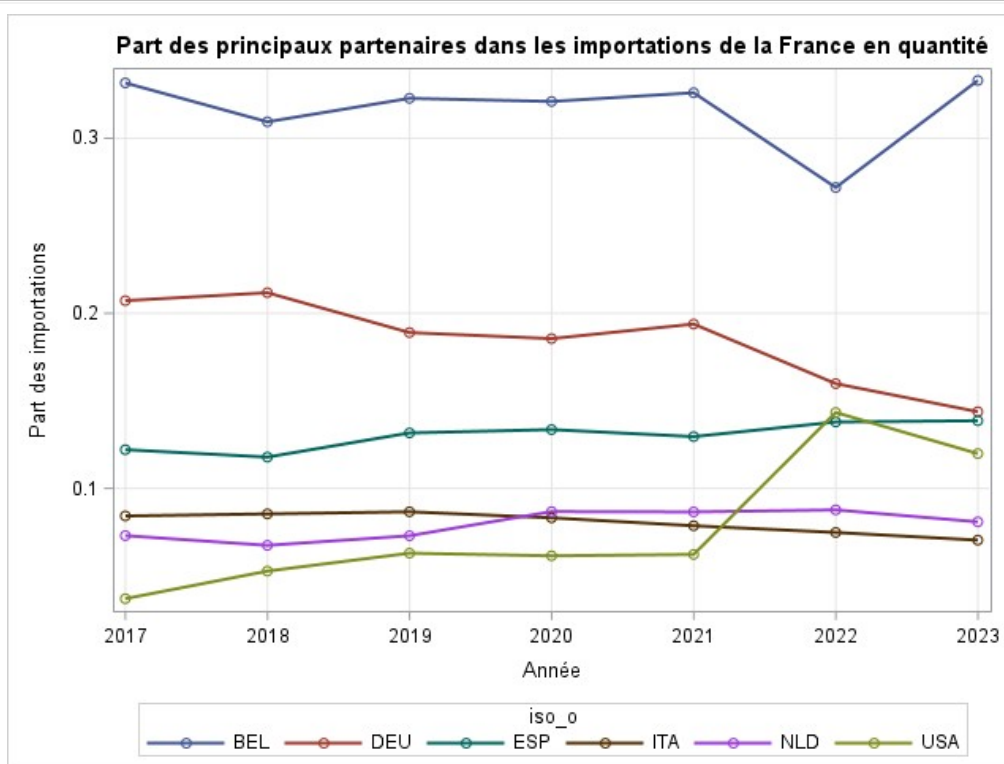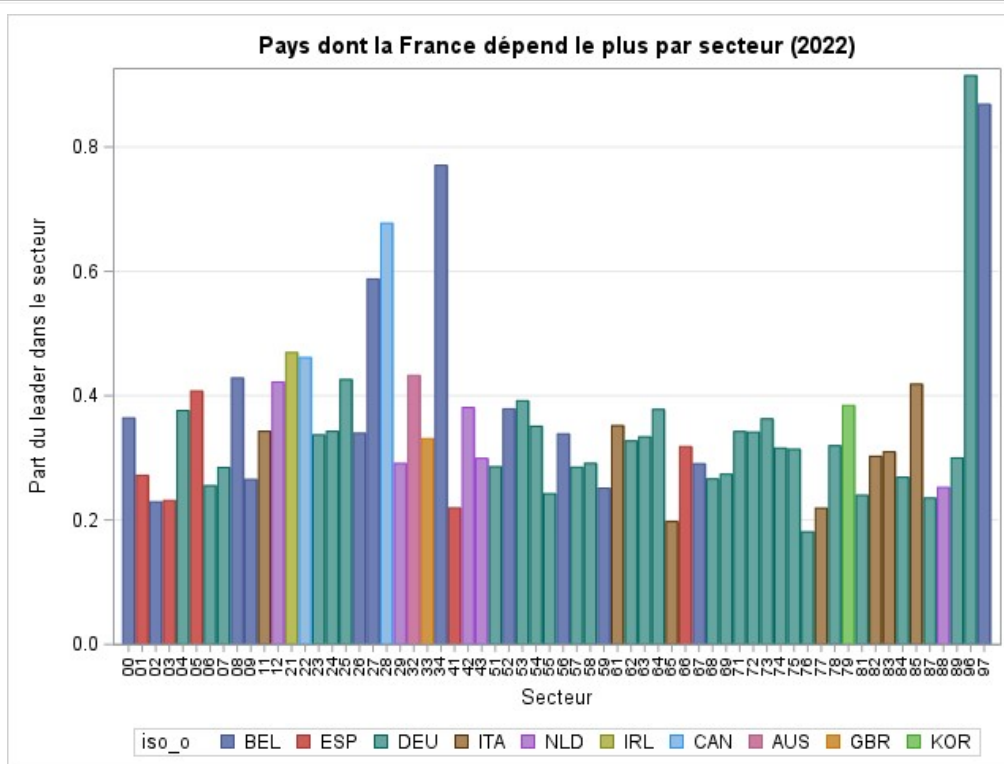
Corrélation entre les variables log-transformées

La procédure CORR

7 Variables : log_quantite log_valeur_unit log_dist_km log_pib_impo log_pib_exp log_pop_exp log_pop_impo

Statistiques simples

Variable	N	Moyenne	Ec-type	Somme	Minimum	Maximum
log_quantite	102865	7.58075	3.99191	779794	-6.90776	19.18810
log_valeur_unit	102865	2.03817	1.97742	209656	-6.90776	13.06989
log_dist_km	103261	8.33564	1.24955	860746	5.15348	9.81876
log_pib_impo	103261	28.15032	1.02662	2906830	26.26077	30.95320
log_pib_exp	103261	28.15899	1.02146	2907725	26.26077	30.95320
log_pop_exp	103261	17.61424	0.98289	1818864	15.38983	19.63502
log_pop_impo	103261	17.60879	0.98415	1818301	15.38983	19.63502

Coefficients de corrélation de Pearson
Proba > |r| sous H0: Rho=0
Nombre d'observations

	log_quantite	log_valeur_unit	log_dist_km	log_pib_impo	log_pib_exp	log_pop_exp	log_pop_impo
log_quantite	1.00000 102865	-0.52752 <.0001 102865	-0.42655 <.0001 102865	0.17493 <.0001 102865	0.20503 <.0001 102865	0.14953 <.0001 102865	0.13961 <.0001 102865
log_valeur_unit	-0.52752 <.0001 102865	1.00000 102865	0.16252 <.0001 102865	0.02889 <.0001 102865	0.02448 <.0001 102865	0.01764 <.0001 102865	0.02002 <.0001 102865
log_dist_km	-0.42655 <.0001 102865	0.16252 <.0001 102865	1.00000 103261	0.02245 <.0001 103261	0.02899 <.0001 103261	0.12762 <.0001 103261	0.12424 <.0001 103261
log_pib_impo	0.17493 <.0001 102865	0.02889 <.0001 102865	0.02245 <.0001 103261	1.00000 103261	-0.06639 <.0001 103261	-0.05922 <.0001 103261	0.85141 <.0001 103261
log_pib_exp	0.20503 <.0001 102865	0.02448 <.0001 102865	0.02899 <.0001 103261	-0.06639 <.0001 103261	1.00000 103261	0.85200 <.0001 103261	-0.05972 <.0001 103261
log_pop_exp	0.14953 <.0001 102865	0.01764 <.0001 102865	0.12762 <.0001 103261	-0.05922 <.0001 103261	0.85200 <.0001 103261	1.00000 103261	-0.06489 <.0001 103261
log_pop_impo	0.13961 <.0001 102865	0.02002 <.0001 102865	0.12424 <.0001 103261	0.85141 <.0001 103261	-0.05972 <.0001 103261	-0.06489 <.0001 103261	1.00000 103261

La régression du modèle gravitaire

La procédure REG
Modèle : MODEL1
Variable dépendante : log_quantite

Nb d'observations lues	103261
Nb d'obs. utilisées	102865
Nombre d'observations avec valeurs manquantes	396

Analyse de variance

Source	DDL	Somme des carrés	Moyenne quadratique	Valeur F	Pr > F
Modèle	421	1157780	2750.07081	585.23	<.0001
Erreur	102443	481397	4.69917		
Total sommes corrigées	102864	1639176			

Root MSE	2.16776	R carré	0.7063
Moyenne dépendante	7.58075	R car. ajust.	0.7051
Coeff Var	28.59554		

Résultats estimés des paramètres

Variable	DDL	Valeur estimée des paramètres	Erreur type	Valeur du test t	Pr > |t|
Intercept	1	63.59750	12.44961	5.11	<.0001
log_valeur_unit	1	-1.12882	0.00584	-193.42	<.0001
log_dist_km	1	-1.18535	0.00902	-131.44	<.0001
log_pib_impo	1	0.67561	0.12511	5.40	<.0001
log_pib_exp	1	0.47106	0.12552	3.75	0.0002
log_pop_exp	1	-3.60211	0.60569	-5.95	<.0001
log_pop_impo	1	-1.54100	0.60576	-2.54	0.0110
langue	1	0.54526	0.02468	22.09	<.0001
FRA_i	1	11.21858	1.49235	7.52	<.0001
FRA_j	1	5.14697	1.49228	3.45	0.0006
DEU_i	1	12.66084	1.60380	7.89	<.0001
DEU_j	1	5.81886	1.60370	3.63	0.0003
ITA_i	1	11.27337	1.42623	7.90	<.0001
ITA_j	1	5.42133	1.42621	3.80	0.0001
ESP_i	1	10.18464	1.30348	7.81	<.0001
ESP_j	1	4.92639	1.30346	3.78	0.0002
BEL_i	1	4.60785	0.49225	9.36	<.0001
BEL_j	1	2.42180	0.49220	4.92	<.0001
NLD_i	1	6.58862	0.71803	9.18	<.0001
NLD_j	1	3.56656	0.71797	4.97	<.0001
POL_i	1	8.91524	1.19620	7.45	<.0001
POL_j	1	4.45747	1.19616	3.73	0.0002
GBR_i	1	10.65076	1.48455	7.17	<.0001
GBR_j	1	5.08990	1.48448	3.43	0.0006
USA_i	1	18.14861	2.37453	7.64	<.0001
USA_j	1	8.47011	2.37433	3.57	0.0004
CAN_i	1	8.75910	1.16207	7.54	<.0001

CAN_j	1	4.45111	1.16200	3.83	0.0001
JPN_i	1	13.15665	1.84660	7.12	<.0001
JPN_j	1	6.75912	1.84656	3.66	0.0003
KOR_i	1	9.95692	1.34940	7.38	<.0001
KOR_j	1	5.56438	1.34940	4.12	<.0001
MEX_i	1	13.09329	1.89998	6.89	<.0001
MEX_j	1	6.66144	1.90006	3.51	0.0005
CHL_i	1	4.96678	0.83519	5.95	<.0001
CHL_j	1	3.61077	0.83518	4.32	<.0001
AUS_i	1	6.95899	0.93145	7.47	<.0001
AUS_j	1	4.65341	0.93130	5.00	<.0001
ts2018_00	1	-2.23151	0.14768	-15.11	<.0001
ts2018_01	1	0.18118	0.14644	1.24	0.2160
ts2018_02	1	-0.58407	0.14977	-3.90	<.0001
ts2018_03	1	-0.03356	0.14395	-0.23	0.8156
ts2018_04	1	-0.07546	0.14216	-0.53	0.5956
ts2018_05	1	0.99383	0.14176	7.01	<.0001
ts2018_06	1	-1.02442	0.14203	-7.21	<.0001
ts2018_07	1	-0.01177	0.14215	-0.08	0.9340
ts2018_08	1	-0.68406	0.14340	-4.77	<.0001
ts2018_09	1	0.35261	0.14161	2.49	0.0128
ts2018_11	1	1.09890	0.14176	7.75	<.0001
ts2018_12	1	-2.59330	0.15340	-16.91	<.0001
ts2018_21	1	-3.98696	0.16394	-24.32	<.0001
ts2018_22	1	-2.57763	0.15100	-17.07	<.0001
ts2018_23	1	-1.51458	0.14923	-10.15	<.0001
ts2018_24	1	-2.22104	0.14705	-15.10	<.0001
ts2018_25	1	-3.06004	0.15360	-19.92	<.0001
ts2018_26	1	-1.69144	0.14258	-11.86	<.0001
ts2018_27	1	-1.15678	0.14272	-8.11	<.0001
ts2018_28	1	0.46403	0.14419	3.22	0.0013
ts2018_29	1	-0.04205	0.14158	-0.30	0.7665
ts2018_32	1	-2.55579	0.16418	-15.57	<.0001
ts2018_33	1	-0.88559	0.15306	-5.79	<.0001
ts2018_34	1	-2.87438	0.17088	-16.82	<.0001
ts2018_41	1	-2.94760	0.15378	-19.17	<.0001
ts2018_42	1	-1.75734	0.14434	-12.18	<.0001
ts2018_43	1	-3.50730	0.14882	-23.57	<.0001
ts2018_51	1	1.75170	0.14189	12.35	<.0001
ts2018_52	1	0.68317	0.14180	4.82	<.0001
ts2018_53	1	0.18554	0.14158	1.31	0.1900
ts2018_54	1	3.08034	0.14267	21.59	<.0001
ts2018_55	1	1.48934	0.14158	10.52	<.0001
ts2018_56	1	-1.79098	0.14547	-12.31	<.0001
ts2018_57	1	1.23944	0.14169	8.75	<.0001
ts2018_58	1	0.88158	0.14158	6.23	<.0001
ts2018_59	1	1.70945	0.14159	12.07	<.0001
ts2018_61					

	1	-2.12362	0.14291	-14.86	<.0001
ts2018_62	1	0.80628	0.14157	5.70	<.0001
ts2018_63	1	-0.98111	0.14214	-6.90	<.0001
ts2018_64	1	0.60000	0.14180	4.23	<.0001
ts2018_65	1	0.83536	0.14158	5.90	<.0001
ts2018_66	1	0.87140	0.14173	6.15	<.0001
ts2018_67	1	1.33540	0.14265	9.36	<.0001
ts2018_68	1	1.56080	0.14186	11.00	<.0001
ts2018_69	1	1.87250	0.14157	13.23	<.0001
ts2018_71	1	2.27913	0.14244	16.00	<.0001
ts2018_72	1	2.26742	0.14162	16.01	<.0001
ts2018_73	1	0.19152	0.14313	1.34	0.1809
ts2018_74	1	2.83960	0.14167	20.04	<.0001
ts2018_75	1	1.78485	0.14248	12.53	<.0001
ts2018_76	1	2.10648	0.14263	14.77	<.0001
ts2018_77	1	2.89607	0.14180	20.42	<.0001
ts2018_78	1	3.19405	0.14160	22.56	<.0001
ts2018_79	1	1.63515	0.14303	11.43	<.0001
ts2018_81	1	-0.42450	0.14250	-2.98	0.0029
ts2018_82	1	0.05893	0.14215	0.41	0.6784
ts2018_83	1	-1.06035	0.14221	-7.46	<.0001
ts2018_84	1	0.85755	0.14198	6.04	<.0001
ts2018_85	1	-0.82314	0.14246	-5.78	<.0001
ts2018_87	1	2.52770	0.14241	17.75	<.0001
ts2018_88	1	0.37401	0.14250	2.62	0.0087
ts2018_89	1	2.62459	0.14169	18.52	<.0001
ts2018_96	1	-6.16598	0.17546	-35.14	<.0001
ts2018_97	1	-1.38850	0.17201	-8.07	<.0001
ts2019_00	1	-2.17713	0.14710	-14.80	<.0001
ts2019_01	1	0.15829	0.14618	1.08	0.2789
ts2019_02	1	-0.59051	0.14850	-3.98	<.0001
ts2019_03	1	-0.02333	0.14370	-0.16	0.8710
ts2019_04	1	-0.07042	0.14221	-0.50	0.6204
ts2019_05	1	1.10259	0.14211	7.76	<.0001
ts2019_06	1	-1.05988	0.14237	-7.44	<.0001
ts2019_07	1	0.07491	0.14221	0.53	0.5984
ts2019_08	1	-0.65962	0.14317	-4.61	<.0001
ts2019_09	1	0.37694	0.14167	2.66	0.0078
ts2019_11	1	1.11820	0.14182	7.88	<.0001
ts2019_12	1	-2.61483	0.15385	-17.00	<.0001
ts2019_21	1	-4.34416	0.16447	-26.41	<.0001
ts2019_22	1	-2.70579	0.14929	-18.12	<.0001
ts2019_23	1	-1.71820	0.14765	-11.64	<.0001
ts2019_24	1	-2.35046	0.14555	-16.15	<.0001
ts2019_25	1	-3.23709	0.15153	-21.36	<.0001
ts2019_26	1	-1.70667	0.14323	-11.92	<.0001
ts2019_27	1	-1.09620	0.14278	-7.68	<.0001
ts2019_28					

	1	0.24935	0.14340	1.74	0.0821
ts2019_29	1	0.05217	0.14193	0.37	0.7132
ts2019_32	1	-2.69256	0.16292	-16.53	<.0001
ts2019_33	1	-1.15911	0.15132	-7.66	<.0001
ts2019_34	1	-2.91556	0.16845	-17.31	<.0001
ts2019_41	1	-2.74514	0.15308	-17.93	<.0001
ts2019_42	1	-1.94275	0.14319	-13.57	<.0001
ts2019_43	1	-3.48880	0.14923	-23.38	<.0001
ts2019_51	1	1.67923	0.14195	11.83	<.0001
ts2019_52	1	0.71242	0.14184	5.02	<.0001
ts2019_53	1	0.24166	0.14221	1.70	0.0893
ts2019_54	1	3.12544	0.14268	21.91	<.0001
ts2019_55	1	1.49609	0.14164	10.56	<.0001
ts2019_56	1	-1.81308	0.14611	-12.41	<.0001
ts2019_57	1	1.25674	0.14206	8.85	<.0001
ts2019_58	1	0.88562	0.14193	6.24	<.0001
ts2019_59	1	1.77389	0.14165	12.52	<.0001
ts2019_61	1	-2.22931	0.14357	-15.53	<.0001
ts2019_62	1	0.85251	0.14192	6.01	<.0001
ts2019_63	1	-0.93259	0.14191	-6.57	<.0001
ts2019_64	1	0.65617	0.14185	4.63	<.0001
ts2019_65	1	0.81460	0.14164	5.75	<.0001
ts2019_66	1	0.87954	0.14177	6.20	<.0001
ts2019_67	1	1.33035	0.14185	9.38	<.0001
ts2019_68	1	1.60585	0.14193	11.31	<.0001
ts2019_69	1	1.89690	0.14163	13.39	<.0001
ts2019_71	1	2.28177	0.14190	16.08	<.0001
ts2019_72	1	2.27546	0.14168	16.06	<.0001
ts2019_73	1	0.19712	0.14231	1.39	0.1660
ts2019_74	1	2.87038	0.14173	20.25	<.0001
ts2019_75	1	1.80413	0.14253	12.66	<.0001
ts2019_76	1	2.15315	0.14269	15.09	<.0001
ts2019_77	1	2.94829	0.14185	20.78	<.0001
ts2019_78	1	3.16368	0.14167	22.33	<.0001
ts2019_79	1	1.75735	0.14249	12.33	<.0001
ts2019_81	1	-0.37736	0.14286	-2.64	0.0083
ts2019_82	1	0.04590	0.14192	0.32	0.7464
ts2019_83	1	-0.95122	0.14257	-6.67	<.0001
ts2019_84	1	0.92637	0.14233	6.51	<.0001
ts2019_85	1	-0.73324	0.14311	-5.12	<.0001
ts2019_87	1	2.57761	0.14248	18.09	<.0001
ts2019_88	1	0.39104	0.14255	2.74	0.0061
ts2019_89	1	2.69939	0.14175	19.04	<.0001
ts2019_96	1	-6.18357	0.17222	-35.91	<.0001
ts2019_97	1	-1.30268	0.16792	-7.76	<.0001
ts2020_00	1	-2.26935	0.14678	-15.46	<.0001
ts2020_01	1	0.13301	0.14592	0.91	0.3620
ts2020_02					

	1	-0.57863	0.14822	-3.90	<.0001
ts2020_03	1	-0.10277	0.14376	-0.71	0.4747
ts2020_04	1	0.07560	0.14256	0.53	0.5959
ts2020_05	1	1.17590	0.14216	8.27	<.0001
ts2020_06	1	-1.07385	0.14183	-7.57	<.0001
ts2020_07	1	0.15332	0.14199	1.08	0.2802
ts2020_08	1	-0.63779	0.14231	-4.48	<.0001
ts2020_09	1	0.55111	0.14173	3.89	0.0001
ts2020_11	1	1.12463	0.14188	7.93	<.0001
ts2020_12	1	-2.61368	0.15503	-16.86	<.0001
ts2020_21	1	-4.74963	0.17029	-27.89	<.0001
ts2020_22	1	-2.65342	0.14801	-17.93	<.0001
ts2020_23	1	-1.87300	0.14801	-12.65	<.0001
ts2020_24	1	-2.06695	0.14712	-14.05	<.0001
ts2020_25	1	-3.18101	0.15271	-20.83	<.0001
ts2020_26	1	-1.77200	0.14358	-12.34	<.0001
ts2020_27	1	-1.18286	0.14283	-8.28	<.0001
ts2020_28	1	0.36245	0.14369	2.52	0.0117
ts2020_29	1	0.12173	0.14171	0.86	0.3903
ts2020_32	1	-2.80869	0.16299	-17.23	<.0001
ts2020_33	1	-1.17701	0.15402	-7.64	<.0001
ts2020_34	1	-3.23029	0.16751	-19.28	<.0001
ts2020_41	1	-2.73774	0.15423	-17.75	<.0001
ts2020_42	1	-1.68783	0.14354	-11.76	<.0001
ts2020_43	1	-3.19212	0.14959	-21.34	<.0001
ts2020_51	1	1.74106	0.14202	12.26	<.0001
ts2020_52	1	0.71626	0.14193	5.05	<.0001
ts2020_53	1	0.17723	0.14199	1.25	0.2120
ts2020_54	1	3.27096	0.14306	22.86	<.0001
ts2020_55	1	1.51643	0.14171	10.70	<.0001
ts2020_56	1	-1.86184	0.14558	-12.79	<.0001
ts2020_57	1	1.18082	0.14185	8.32	<.0001
ts2020_58	1	0.86904	0.14199	6.12	<.0001
ts2020_59	1	1.97473	0.14171	13.93	<.0001
ts2020_61	1	-2.42266	0.14244	-17.01	<.0001
ts2020_62	1	0.73429	0.14170	5.18	<.0001
ts2020_63	1	-0.97266	0.14196	-6.85	<.0001
ts2020_64	1	0.59261	0.14192	4.18	<.0001
ts2020_65	1	0.84842	0.14171	5.99	<.0001
ts2020_66	1	0.83143	0.14186	5.86	<.0001
ts2020_67	1	1.04116	0.14191	7.34	<.0001
ts2020_68	1	1.57279	0.14200	11.08	<.0001
ts2020_69	1	1.81714	0.14170	12.82	<.0001
ts2020_71	1	2.17387	0.14227	15.28	<.0001
ts2020_72	1	2.26910	0.14175	16.01	<.0001
ts2020_73	1	-0.06708	0.14297	-0.47	0.6389
ts2020_74	1	2.85842	0.14180	20.16	<.0001
ts2020_75					

	1	1.79008	0.14263	12.55	<.0001
ts2020_76	1	2.13260	0.14276	14.94	<.0001
ts2020_77	1	3.00216	0.14192	21.15	<.0001
ts2020_78	1	2.99370	0.14202	21.08	<.0001
ts2020_79	1	1.68062	0.14290	11.76	<.0001
ts2020_81	1	-0.44474	0.14234	-3.12	0.0018
ts2020_82	1	-0.09047	0.14199	-0.64	0.5240
ts2020_83	1	-0.94478	0.14301	-6.61	<.0001
ts2020_84	1	0.92547	0.14213	6.51	<.0001
ts2020_85	1	-0.74334	0.14203	-5.23	<.0001
ts2020_87	1	2.58899	0.14252	18.17	<.0001
ts2020_88	1	0.31157	0.14267	2.18	0.0290
ts2020_89	1	2.69067	0.14182	18.97	<.0001
ts2020_96	1	-5.82082	0.17300	-33.65	<.0001
ts2020_97	1	-0.96472	0.16840	-5.73	<.0001
ts2021_00	1	-2.10070	0.14819	-14.18	<.0001
ts2021_01	1	0.08912	0.14733	0.60	0.5452
ts2021_02	1	-0.66515	0.14954	-4.45	<.0001
ts2021_03	1	0.03356	0.14550	0.23	0.8176
ts2021_04	1	0.11723	0.14427	0.81	0.4164
ts2021_05	1	1.09415	0.14392	7.60	<.0001
ts2021_06	1	-1.05434	0.14415	-7.31	<.0001
ts2021_07	1	0.19277	0.14405	1.34	0.1808
ts2021_08	1	-0.47495	0.14491	-3.28	0.0010
ts2021_09	1	0.55973	0.14379	3.89	<.0001
ts2021_11	1	1.14701	0.14392	7.97	<.0001
ts2021_12	1	-2.93769	0.15688	-18.73	<.0001
ts2021_21	1	-4.99783	0.16762	-29.82	<.0001
ts2021_22	1	-2.68001	0.14868	-18.03	<.0001
ts2021_23	1	-1.77919	0.14830	-12.00	<.0001
ts2021_24	1	-2.10206	0.14748	-14.25	<.0001
ts2021_25	1	-3.03182	0.15484	-19.58	<.0001
ts2021_26	1	-1.86762	0.14414	-12.96	<.0001
ts2021_27	1	-1.08076	0.14484	-7.46	<.0001
ts2021_28	1	0.42601	0.14448	2.95	0.0032
ts2021_29	1	0.10697	0.14377	0.74	0.4568
ts2021_32	1	-2.77684	0.15981	-17.38	<.0001
ts2021_33	1	-1.21628	0.15328	-7.93	<.0001
ts2021_34	1	-2.52727	0.17177	-14.71	<.0001
ts2021_41	1	-2.86040	0.15614	-18.32	<.0001
ts2021_42	1	-1.57981	0.14525	-10.88	<.0001
ts2021_43	1	-3.19185	0.14887	-21.44	<.0001
ts2021_51	1	1.73365	0.14378	12.06	<.0001
ts2021_52	1	0.80603	0.14423	5.59	<.0001
ts2021_53	1	0.20907	0.14433	1.45	0.1475
ts2021_54	1	3.37190	0.14527	23.21	<.0001
ts2021_55	1	1.54960	0.14378	10.78	<.0001
ts2021_56					

	1	-1.83183	0.14689	-12.47	<.0001
ts2021_57	1	1.36873	0.14386	9.51	<.0001
ts2021_58	1	0.84810	0.14376	5.90	<.0001
ts2021_59	1	1.94152	0.14377	13.50	<.0001
ts2021_61	1	-2.25465	0.14571	-15.47	<.0001
ts2021_62	1	0.79448	0.14376	5.53	<.0001
ts2021_63	1	-0.79247	0.14398	-5.50	<.0001
ts2021_64	1	0.59491	0.14395	4.13	<.0001
ts2021_65	1	0.82459	0.14378	5.74	<.0001
ts2021_66	1	0.86117	0.14389	5.98	<.0001
ts2021_67	1	1.17420	0.14394	8.16	<.0001
ts2021_68	1	1.77293	0.14380	12.33	<.0001
ts2021_69	1	1.80701	0.14376	12.57	<.0001
ts2021_71	1	2.17261	0.14431	15.06	<.0001
ts2021_72	1	2.31035	0.14382	16.06	<.0001
ts2021_73	1	-0.09567	0.14445	-0.66	0.5078
ts2021_74	1	2.88620	0.14388	20.06	<.0001
ts2021_75	1	1.67388	0.14473	11.57	<.0001
ts2021_76	1	2.12369	0.14487	14.66	<.0001
ts2021_77	1	3.04984	0.14401	21.18	<.0001
ts2021_78	1	3.02765	0.14381	21.05	<.0001
ts2021_79	1	1.61068	0.14513	11.10	<.0001
ts2021_81	1	-0.46482	0.14413	-3.22	0.0013
ts2021_82	1	-0.02914	0.14434	-0.20	0.8400
ts2021_83	1	-0.89447	0.14451	-6.19	<.0001
ts2021_84	1	0.95275	0.14423	6.61	<.0001
ts2021_85	1	-0.71544	0.14444	-4.95	<.0001
ts2021_87	1	2.59297	0.14459	17.93	<.0001
ts2021_88	1	0.36771	0.14510	2.53	0.0113
ts2021_89	1	2.78190	0.14391	19.33	<.0001
ts2021_96	1	-5.87843	0.17013	-34.55	<.0001
ts2021_97	1	-1.58158	0.16834	-9.40	<.0001
ts2022_00	1	-2.00842	0.14859	-13.52	<.0001
ts2022_01	1	0.12122	0.14683	0.83	0.4090
ts2022_02	1	-0.54948	0.14808	-3.71	0.0002
ts2022_03	1	0.05804	0.14562	0.40	0.6902
ts2022_04	1	0.33903	0.14441	2.35	0.0189
ts2022_05	1	1.17745	0.14432	8.16	<.0001
ts2022_06	1	-0.92551	0.14429	-6.41	<.0001
ts2022_07	1	0.22867	0.14391	1.59	0.1121
ts2022_08	1	-0.40798	0.14416	-2.83	0.0047
ts2022_09	1	0.66396	0.14393	4.61	<.0001
ts2022_11	1	1.22341	0.14405	8.49	<.0001
ts2022_12	1	-2.81530	0.15588	-18.06	<.0001
ts2022_21	1	-4.76845	0.16678	-28.59	<.0001
ts2022_22	1	-2.48116	0.14872	-16.68	<.0001
ts2022_23	1	-1.50070	0.14998	-10.01	<.0001
ts2022_24					

	1	-2.00988	0.14760	-13.62	<.0001
ts2022_25	1	-3.30774	0.15142	-21.85	<.0001
ts2022_26	1	-1.67737	0.14543	-11.53	<.0001
ts2022_27	1	-0.95554	0.14518	-6.58	<.0001
ts2022_28	1	0.50900	0.14488	3.51	0.0004
ts2022_29	1	0.18779	0.14391	1.30	0.1919
ts2022_32	1	-2.50300	0.15862	-15.78	<.0001
ts2022_33	1	-0.97968	0.15259	-6.42	<.0001
ts2022_34	1	-2.05992	0.16702	-12.33	<.0001
ts2022_41	1	-2.86681	0.15298	-18.74	<.0001
ts2022_42	1	-1.28685	0.14536	-8.85	<.0001
ts2022_43	1	-3.03403	0.14900	-20.36	<.0001
ts2022_51	1	1.85298	0.14392	12.87	<.0001
ts2022_52	1	1.10832	0.14431	7.68	<.0001
ts2022_53	1	0.29496	0.14449	2.04	0.0412
ts2022_54	1	3.53312	0.14510	24.35	<.0001
ts2022_55	1	1.62510	0.14392	11.29	<.0001
ts2022_56	1	-1.24523	0.14594	-8.53	<.0001
ts2022_57	1	1.54743	0.14427	10.73	<.0001
ts2022_58	1	0.97708	0.14391	6.79	<.0001
ts2022_59	1	2.10553	0.14391	14.63	<.0001
ts2022_61	1	-2.29174	0.14524	-15.78	<.0001
ts2022_62	1	0.87783	0.14391	6.10	<.0001
ts2022_63	1	-0.69703	0.14409	-4.84	<.0001
ts2022_64	1	0.74318	0.14407	5.16	<.0001
ts2022_65	1	0.85355	0.14393	5.93	<.0001
ts2022_66	1	0.98221	0.14402	6.82	<.0001
ts2022_67	1	1.43003	0.14403	9.93	<.0001
ts2022_68	1	1.97538	0.14478	13.64	<.0001
ts2022_69	1	1.92080	0.14391	13.35	<.0001
ts2022_71	1	2.26309	0.14421	15.69	<.0001
ts2022_72	1	2.43271	0.14397	16.90	<.0001
ts2022_73	1	0.08899	0.14549	0.61	0.5407
ts2022_74	1	2.96248	0.14403	20.57	<.0001
ts2022_75	1	1.79088	0.14493	12.36	<.0001
ts2022_76	1	2.12289	0.14500	14.64	<.0001
ts2022_77	1	3.08881	0.14412	21.43	<.0001
ts2022_78	1	3.11879	0.14395	21.67	<.0001
ts2022_79	1	1.48924	0.14479	10.29	<.0001
ts2022_81	1	-0.49318	0.14487	-3.40	0.0007
ts2022_82	1	0.00710	0.14392	0.05	0.9607
ts2022_83	1	-0.77036	0.14493	-5.32	<.0001
ts2022_84	1	1.03332	0.14436	7.16	<.0001
ts2022_85	1	-0.59612	0.14458	-4.12	<.0001
ts2022_87	1	2.65396	0.14474	18.34	<.0001
ts2022_88	1	0.37350	0.14489	2.58	0.0099
ts2022_89	1	2.81715	0.14407	19.55	<.0001
ts2022_96					

	1	-5.65484	0.17337	-32.62	<.0001
ts2022_97	1	-1.31865	0.17298	-7.62	<.0001
ts2023_00	1	-2.02789	0.15331	-13.23	<.0001
ts2023_01	1	0.17001	0.15083	1.13	0.2597
ts2023_02	1	-0.50618	0.15153	-3.34	0.0008
ts2023_03	1	-0.03746	0.14930	-0.25	0.8019
ts2023_04	1	0.30102	0.14736	2.04	0.0411
ts2023_05	1	1.15353	0.14699	7.85	<.0001
ts2023_06	1	-0.99567	0.14722	-6.76	<.0001
ts2023_07	1	0.17554	0.14741	1.19	0.2337
ts2023_08	1	-0.39887	0.14827	-2.69	0.0071
ts2023_09	1	0.63110	0.14687	4.30	<.0001
ts2023_11	1	1.10672	0.14699	7.53	<.0001
ts2023_12	1	-2.76853	0.16046	-17.25	<.0001
ts2023_21	1	-4.73889	0.17348	-27.32	<.0001
ts2023_22	1	-2.55757	0.15409	-16.60	<.0001
ts2023_23	1	-1.95912	0.15130	-12.95	<.0001
ts2023_24	1	-2.18796	0.14989	-14.60	<.0001
ts2023_25	1	-3.06683	0.15902	-19.29	<.0001
ts2023_26	1	-1.93347	0.14893	-12.98	<.0001
ts2023_27	1	-1.09278	0.14813	-7.38	<.0001
ts2023_28	1	0.35653	0.14921	2.39	0.0169
ts2023_29	1	0.08957	0.14686	0.61	0.5419
ts2023_32	1	-2.70269	0.16447	-16.43	<.0001
ts2023_33	1	-0.96723	0.15807	-6.12	<.0001
ts2023_34	1	-2.48876	0.17147	-14.51	<.0001
ts2023_41	1	-2.83502	0.15500	-18.29	<.0001
ts2023_42	1	-1.50574	0.14828	-10.15	<.0001
ts2023_43	1	-3.08572	0.15243	-20.24	<.0001
ts2023_51	1	1.68045	0.14714	11.42	<.0001
ts2023_52	1	1.04263	0.14724	7.08	<.0001
ts2023_53	1	0.19556	0.14801	1.32	0.1864
ts2023_54	1	3.44476	0.14827	23.23	<.0001
ts2023_55	1	1.61313	0.14716	10.96	<.0001
ts2023_56	1	-1.87494	0.14958	-12.53	<.0001
ts2023_57	1	1.25918	0.14721	8.55	<.0001
ts2023_58	1	0.86361	0.14685	5.88	<.0001
ts2023_59	1	1.91416	0.14686	13.03	<.0001
ts2023_61	1	-2.49265	0.14961	-16.66	<.0001
ts2023_62	1	0.83613	0.14686	5.69	<.0001
ts2023_63	1	-0.89260	0.14731	-6.06	<.0001
ts2023_64	1	0.50282	0.14700	3.42	0.0006
ts2023_65	1	0.77073	0.14744	5.23	<.0001
ts2023_66	1	0.81987	0.14696	5.58	<.0001
ts2023_67	1	1.25905	0.14726	8.55	<.0001
ts2023_68	1	1.80820	0.14798	12.22	<.0001
ts2023_69	1	1.83159	0.14686	12.47	<.0001
ts2023_71					

	1	2.27392	0.14744	15.42	<.0001
ts2023_72	1	2.39823	0.14721	16.29	<.0001
ts2023_73	1	0.14683	0.14790	0.99	0.3208
ts2023_74	1	2.97742	0.14698	20.26	<.0001
ts2023_75	1	1.72905	0.14812	11.67	<.0001
ts2023_76	1	2.06082	0.14790	13.93	<.0001
ts2023_77	1	3.11159	0.14708	21.16	<.0001
ts2023_78	1	3.21184	0.14690	21.86	<.0001
ts2023_79	1	1.71615	0.14889	11.53	<.0001
ts2023_81	1	-0.58765	0.14806	-3.97	<.0001
ts2023_82	1	-0.00510	0.14743	-0.03	0.9724
ts2023_83	1	-0.79115	0.14815	-5.34	<.0001
ts2023_84	1	0.94483	0.14756	6.40	<.0001
ts2023_85	1	-0.56310	0.14809	-3.80	0.0001
ts2023_87	1	2.61548	0.14769	17.71	<.0001
ts2023_88	1	0.36236	0.14846	2.44	0.0147
ts2023_89	1	2.74402	0.14701	18.67	<.0001
ts2023_96	1	-5.73976	0.16987	-33.79	<.0001
ts2023_97	1	-1.03110	0.17880	-5.77	<.0001

Densité des résidus du modèle