

'Effectiveness' of NDBs

EUROPE

Here is an extra table obtained from the CLE81 reports from Europe listeners. It tries to find which NDBs are the more 'effective' ones and which are the less 'effective'.

If you put all your local NDBs in order of distance from you, nearest first, you would expect their strengths to fall more or less as their distances from you increase.

In the following table, the numbers in the 'Effective' column show by how much each NDB differed from this. I put each reporter's NDBs in order of increasing distance from them: 1, 2, 3, 4, - - - and I compared that order with the same reporter's NDBs in order of decreasing strength.

E.g. **408 BRK Wien** came **6 positions HIGHER** in strength order than in distance order: **6**  
That is an average result from the three reporters who sent results for that NDB.

But **290 GRZ Graz** was **3 positions LOWER** in strength order than in distance order: **- 3**  
That result came only from the one reporter who included GRZ in their log, so it is less reliable.

**352.5 DD Oostende** had the **SAME** strength order position as its distance order position (an average for two reporters): **0**

The **more positive** a number is in the 'Effective' column, the stronger the NDB was for a given distance, The **more negative** a number, the weaker the NDB was for a given distance.  
The results shown in **bold blue** are averages from 3 or more reporters, so they are the more reliable ones.

Location	ITU	kHz	C/S	Effective ness	No.Rprts
Graz	AUT	290	GRZ	-3	1
Wien Steinhof	AUT	293	STE	4	1
Wien	AUT	303	WO	3	1
Wiener Neustadt Trausdorf	AUT	315	TF	-8	1
Linz	AUT	327	LNZ	10	2
Tulln	AUT	358	TUN	2	2
Salzburg	AUT	<b>382 SBG</b>		<b>2</b>	3
Wien Bruck	AUT	<b>408 BRK</b>		<b>6</b>	3
Gleichenberg	AUT	426	GBG	9	1
Liege	BEL	290	ONL	15	1
Brussels	BEL	293	OB	1	1
Antwerpen	BEL	309	WW	-5	1
Brussels	BEL	314	OZ	-8	1
Charleroi	BEL	323	ONC	5	1
Liege	BEL	348.5	LG	5	1
Oostende	BEL	352.5	DD	0	2
Antwerpen	BEL	355	ONW	5	1
Mackel	BEL	360.5	MAK	1	1
Kortrijk	BEL	371	OKT	-12	1
Oostende	BEL	375	OO	-8	1
Oostende	BEL	399.5	ONO	7	2
Brussels	BEL	402	OP	-19	1
Kleine Brogel	BEL	431	ONT	-1	1
Banja Luka	BIH	340	BLK	0	1
Ostrave Mosnov	CZE	258	N	-4	1
Praha Kbely	CZE	<b>300 KD</b>		<b>2</b>	3
Praha Ruzyne	CZE	307	PG	0	2
Prerov	CZE	319	C	1	1
Vodochody	CZE	333	VO	0	2
Caslav	CZE	345.5	CF	2	2
Praha	CZE	356	PR	-10	2
Nemest nad Oslavou	CZE	362	L	-5	1
Brno Turany	CZE	368	BNO	0	1
Praha Ruzyne Liboc	CZE	372	L	-5	2
Rakovnik	CZE	386	RAK	-10	2
Plzen Line	CZE	398	D	-3	1
Kunovice	CZE	416	KUN	0	1

Vodochody	CZE	416	V	-6	2
Hradec Kralove	CZE	<b>422 UR</b>		<b>2</b>	3
Brno Turany Borek	CZE	429	B	-2	1
Praha Dejvice	CZE	429	D	0	1
Pardubice Prvek	CZE	<b>432 PK</b>		<b>3</b>	3
Kunovice	CZE	434	KNE	-1	1
Praha Kbely	CZE	438	K	-7	2
Prerov	CZE	441	CK	0	1
Holesov	CZE	448	HLV	0	1
Moravska Trebova	CZE	<b>492 TBV</b>		<b>-3</b>	3
Namest nad Oslavou	CZE	514.5	XU	-16	1
Ostrava Mosnov/Rada	CZE	534	R	-11	1
Berlin Schonefeld	DEU	299	SL	-10	1
Hannover East	DEU	320	HA	11	1
Berlin Tegel East	DEU	321	GL	2	1
Berlin Planter	DEU	327	DIP	-1	1
Altenburg Nobitz	DEU	330	ABU	2	1
Leipzig	DEU	340	ZIG	4	1
Berlin	DEU	347	DBR	-8	1
Niederrhein	DEU	352	LAA	1	1
Bautzen	DEU	359	BA	-2	1
Berlin Schonefeld	DEU	362	SLN	-2	1
Magdeburg	DEU	367	MU	5	1
Dresden	DEU	374	FS	-4	2
Nordlingen	DEU	375	NDG	0	1
Grafenwohr	DEU	405	GRW	-8	1
Holzendorf	DEU	406	HOZ	2	1
Wunstorf	DEU	419	WUN	12	1
Erfurt	DEU	425	ERT	14	1
Rothenburg	DEU	432	RO	-13	1
Leipzig Halle	DEU	434	SK	5	1
Hof	DEU	484	HOF	-4	1
Chiltern	ENG	<b>277 CHT</b>		<b>-1</b>	3
Lyneham	ENG	282	LA	13	2
Epsom	ENG	<b>316 EPM</b>		<b>-7</b>	3
London City	ENG	<b>322 LCY</b>		<b>-15</b>	3
Sherburn in Elmet	ENG	323	SBL	0	1
Blackbushe	ENG	328	BLK	-1	2
Shoreham	ENG	332	SHM	-7	2
Cambridge	ENG	<b>332.5 CAM</b>		<b>-4</b>	3
Sheffield	ENG	333	SMF	-2	1
Westcott	ENG	<b>335 WCO</b>		<b>5</b>	3
Warton	ENG	337	WTN	5	1
Robin Hood (Doncaster)	ENG	338	FNY	10	1
London Gatwick	ENG	<b>338 GE</b>		<b>-11</b>	3
Bournemouth	ENG	339	BIA	4	2
Lashenden	ENG	<b>340 LSH</b>		<b>0</b>	3
Redhill	ENG	343	TST	0	2
Luton	ENG	345	LUT	-13	2
Manston	ENG	347	MTN	-3	2
Fairoaks	ENG	348	FOS	-6	2
Liverpool	ENG	349.5	LPL	-15	1
Woodley	ENG	352	WOD	4	2
Southend	ENG	<b>362.5 SND</b>		<b>3</b>	4
Coventry	ENG	363.5	CT	4	1
London Gatwick	ENG	<b>365 GY</b>		<b>-6</b>	3
Oxford	ENG	367.5	OX	3	2
Whitegate	ENG	368.5	WHI	-12	1
Rochester	ENG	369	RCH	-13	1
Northampton	ENG	378.5	NN	2	1
Woodford	ENG	380	WFD	0	1
Walney Is / Barrow	ENG	385	WL	25	1
Brize Norton	ENG	386	BZ	6	2
Bourn	ENG	391.5	BOU	-2	1
Southampton Eastleigh	ENG	391.5	EAS	-11	1
Lydd	ENG	397	LZD	-2	2
Leeds/Bradford	ENG	402.5	LBA	3	1
Gt.Yarmouth Nth Dene	ENG	417	ND	-1	1
Lee on Solent	ENG	419	LSO	-11	2



Blackpool	ENG	420	BPL	3	1
Burnham	ENG	421	BUR	-4	3
Bembridge Is.of Wight	ENG	426	IW	-7	1
Manchester	ENG	428	MCH	-12	1
Stanstead	ENG	429	SSD	-2	3
Henton	ENG	433.5	HEN	0	2
Lichfield	ENG	545	LIC	7	1
Cranfield	ENG	850	CIT	-1	1
Avord	FRA	288.5	AVD	0	1
Grenoble	FRA	291	WS	3	1
St. Etienne Boutheon	FRA	299	BO	-3	1
Romorantin	FRA	301	RTN	8	1
Dole	FRA	309	DO	3	1
Valenciennes	FRA	317	VS	13	1
Valence	FRA	320	VE	-15	1
Moulins	FRA	324	MOU	5	1
Merville Calonne	FRA	327	MVC	13	2
Lille Lesquin	FRA	332	LL	10	2
Amiens Glisy	FRA	339	GI	16	2
Villefranche Tarare	FRA	344	TR	7	1
Chambery	FRA	346	CH	0	1
Le Havre	FRA	346	LHO	5	1
Dieppe	FRA	351	DSA	15	1
Charleville Mezieres	FRA	379	CZ	12	1
St.Etienne Bouthéon	FRA	379	EB	-2	1
Anancy Meythet	FRA	384	AT	0	1
St. Inglevert	FRA	387	ING	11	2
Lyon Bron	FRA	388	BR	3	1
Beauvais	FRA	391	BV	15	1
Chalon Champforgeuil	FRA	391	CC	8	1
Grenoble	FRA	397	EG	2	1
Macon	FRA	400	MO	-5	1
Merville Calonne	FRA	404	MRV	14	3
Lyon St Exupery	FRA	405	LYS	-5	1
Calais Dunkerque	FRA	418	MK	9	2
Bourg	FRA	423	BOR	-2	1
St. Yan	FRA	430	SN	2	1
Alderney	GSY	383	ALD	21	1
Tapiosap	HNG	306	TPS	0	1
Papa	HNG	318	CP	6	1
Papa	HNG	318	PC	6	1
Budapest Ferihegy	HNG	335	BL	-5	1
Budapest	HNG	343	A	-4	1
Sagvar	HNG	348	SVR	12	1
Gyor	HNG	354	GYR	7	1
Pusztaszabolcs	HNG	386	PTB	11	1
Budapest Ferihegy	HNG	395	BR	19	1
Budapest	HNG	420	HM	1	1
Sarmalleek	HNG	428	SME	4	1
Bugac	HNG	430	BUG	6	1
Papa	HNG	493	P	-3	1
Jaszbereny	HNG	517	JBR	-2	1
Lelystad	HOL	326	LLS	2	1
Amsterdam Nieuwkoop	HOL	332	NV	-2	1
Rotterdam	HOL	350.5	ROT	-5	1
Rotterdam Zestienhoven	HOL	369	PS	-8	1
Maastricht Beek	HOL	373	NW	-5	1
Amsterdam Weesp	HOL	376	WP	0	1
Gulpen	HOL	383.5	GUL	-1	1
Stad Haringvliet	HOL	386	STD	-14	1
Amsterdam Schipol	HOL	388.5	CH	-10	1
Teuge	HOL	391	TGE	-2	1
Amsterdam Schipol	HOL	395	OA	-6	1
Eindhoven	HOL	397	EHN	-8	1
Rotterdam	HOL	404.5	RR	-8	1
Zagreb Kraljevec	HRV	350	SK	0	1
Osijek	HRV	422	OSJ	10	1
Katowice Pyrzowice	POL	285	PT	4	1
Krakow	POL	353	KRW	14	2

Chociwel	POL	375	CHO	16	1
Krakow Balice	POL	379	L	-13	1
Belchatow	POL	385	MT	-3	1
Babimost	POL	390	BBM	-11	1
Szczecin Goleniow	POL	397	OL	1	1
Rzeszow Jasionka	POL	474	RZ	8	1
Powidz	POL	478	GT	2	1
Wroclaw Strachowice	POL	525	HG	-1	2
Katowice Pyrzowice	POL	588	P	1	1
Topola	SER	348	TPL	2	1
Valjevo	SER	390	VAL	4	1
Indija	SER	485	IA	1	1
Sliac	SVK	295	F	-13	1
Piestany	SVK	297	C	-3	1
Dubove	SVK	310	DBV	3	1
Bratislava	SVK	330	OB	2	1
Bratislava	SVK	391	OKR	1	1
Nitra	SVK	398	NIT	3	1
Zilina	SVK	404	ZLA	-3	1
Sliac	SVK	412	FS	-6	1
Poprad Tatry	SVK	418	PW	-8	1
Bratislava	SVK	429	D.	-6	1
Bratislava Barka	SVK	438	B	-2	1
Poprad Tatry East	SVK	438	PE	-2	1
Malacky Kuchyna	SVK	477	RP	2	1
Zilina Hlinik	SVK	508	Z	-2	1
Trencin	SVK	695	T	-15	1
Maribor	SVN	334	MR	7	1
Hawarden	WLS	340	HAW	0	1

The French NDBs tend to have higher 'effectiveness' results because it is usually the carrier which is keyed.  
(Please see further comments and questions in the covering email)

**For anyone who is interested (or suspicious!) and wants to see the detailed working that gave these results, please read on:**

The following table contains all the reports which contributed to the above results.  
I could only use reports from the nine listeners who included strength estimates in their logs.

The first four columns identifying the NDB are obvious.  
The S column contains the reporter's estimate of the strength of the NDB.  
The Sord column shows the position, in descending Strength order, that NDB came for that reporter.  
The dist column shows the reporter's entry for the distance of the NDB.  
The distOrd column shows the position, in ascending distance order, that NDB came for that reporter.

The Effect column is obtained by subtracting Sord from distOrd.

The EffectAdj column is needed because of the different number of NDBs reported by each reporter.  
E.g. one reporter provided details of 68 NDBs, while another only reported 12.  
The 'Effect' results coming from the first reporter would be, on average, over 5 times as large as those from the other.  
When combining results from different reporters for the same NDB, their individual contributions would be very unequal.  
The EffectAdj column corrects the 'Effect' results as though every reporter had reported 30 NDBs (the average).  
Those corrected figures were then used to provide the 'Effective' column results in the main table above.

Location	ITU	kHz	C/S	S	SOrd	dist	distOrd	Effect	EffectAdj	Rptr
Graz	AUT	290	GRZ	2	64	295	57	-7	-3	CZE vd
Wien Steinhof	AUT	293	STE	8	18	144	28	10	4	CZE vd
Wien	AUT	303	WO	8	18	141	25	7	3	CZE vd
Wiener Neustadt Trausdorf	AUT	315	TF	4	52	175	33	-19	-8	CZE vd
Linz	AUT	327	LNZ	7	27	257	52	25	11	CZE vd
Linz	AUT	327	LNZ	4	19	319	32	13	10	DEU mz
Tulln	AUT	358	TUN	9	11	150	30	19	8	CZE vd
Tulln	AUT	358	TUN	2	19	222	17	-2	-3	CZE fr
Salzburg	AUT	382	SBG	3	17	254	18	1	2	CZE fr
Salzburg	AUT	382	SBG	3	29	357	35	6	5	DEU mz

Salzburg	AUT	382	SBG	2	64	364	62	-2	-1	CZE	vd
Wien Bruck	AUT	408	BRK	901	7	141	25	18	8	CZE	vd
Wien Bruck	AUT	408	BRK	4.5	14	275	19	5	8	CZE	fr
Wien Bruck	AUT	408	BRK	2	36	391	37	1	1	DEU	mz
Gleichenberg	AUT	426	GBG	6	34	287	55	21	9	CZE	vd
Liege	BEL	290	ONL	36	10	163	30	20	15	HOL	rb
Brussels	BEL	293	OB	35	11	96	12	1	1	HOL	rb
Antwerpen	BEL	309	WW	34	13	71	7	-6	-5	HOL	rb
Brussels	BEL	314	OZ	26	22	96	12	-10	-8	HOL	rb
Charleroi	BEL	323	ONC	30	17	131	23	6	5	HOL	rb
Liege	BEL	348.5	LG	26	22	161	29	7	5	HOL	rb
Oostende	BEL	352.5	DD	38	7	63	6	-1	-1	HOL	rb
Oostende	BEL	352.5	DD	36	24	161	25	1	1	ENG	py
Antwerpen	BEL	355	ONW	41	2	77	8	6	5	HOL	rb
Mackel	BEL	360.5	MAK	40	4	60	5	1	1	HOL	rb
Kortrijk	BEL	371	OKT	25	25	80	10	-15	-12	HOL	rb
Oostende	BEL	375	OO	33	14	59	4	-10	-8	HOL	rb
Oostende	BEL	399.5	ONO	41	2	53	2	0	0	HOL	rb
Oostende	BEL	399.5	ONO	43	11	173	27	16	15	ENG	py
Brussels	BEL	402	OP	15	36	93	11	-25	-19	HOL	rb
Kleine Brogel	BEL	431	ONT	24	27	140	26	-1	-1	HOL	rb
Banja Luka	BIH	340	BLK	2	64	458	65	1	0	CZE	vd
Ostrave Mosnov	CZE	258	N	8	18	73	10	-8	-4	CZE	vd
Praha Kbely	CZE	300	KD	915	2	20	7	5	8	CZE	fr
Praha Kbely	CZE	300	KD	5	9	115	11	2	2	DEU	mz
Praha Kbely	CZE	300	KD	3	57	228	45	-12	-5	CZE	vd
Praha Ruzyne	CZE	307	PG	915	2	4	1	-1	-2	CZE	fr
Praha Ruzyne	CZE	307	PG	5	9	120	13	4	3	DEU	mz
Prerov	CZE	319	C	920	3	22	5	2	1	CZE	vd
Vodochody	CZE	333	VO	902	5	19	6	1	2	CZE	fr
Vodochody	CZE	333	VO	5	9	103	5	-4	-3	DEU	mz
Caslav	CZE	345.5	CF	905	5	74	10	5	8	CZE	fr
Caslav	CZE	345.5	CF	5	38	162	32	-6	-3	CZE	vd
Praha	CZE	356	PR	905	5	13	3	-2	-3	CZE	fr
Praha	CZE	356	PR	3	29	109	8	-21	-17	DEU	mz
Nemest nad Oslavou	CZE	362	L	7	27	91	16	-11	-5	CZE	vd
Brno Turany	CZE	368	BNO	901	7	49	6	-1	0	CZE	vd
Praha Ruzyne Liboc	CZE	372	L	905	5	13	3	-2	-3	CZE	fr
Praha Ruzyne Liboc	CZE	372	L	4	19	111	9	-10	-8	DEU	mz
Rakovnik	CZE	386	RAK	7	12	51	9	-3	-5	CZE	fr
Rakovnik	CZE	386	RAK	3	29	114	10	-19	-15	DEU	mz
Plzen Line	CZE	398	D	6	13	88	11	-2	-3	CZE	fr
Kunovice	CZE	416	KUN	920	3	15	2	-1	0	CZE	vd
Vodochody	CZE	416	V	902	8	20	7	-1	-2	CZE	fr
Vodochody	CZE	416	V	4	19	103	5	-14	-11	DEU	mz
Hradec Kralove	CZE	422	UR	9	10	106	13	3	5	CZE	fr
Hradec Kralove	CZE	422	UR	6	34	156	31	-3	-1	CZE	vd
Hradec Kralove	CZE	422	UR	4	19	166	20	1	1	DEU	mz
Brno Turany Borek	CZE	429	B	9	11	55	7	-4	-2	CZE	vd
Praha Dejvice	CZE	429	D	915	2	10	2	0	0	CZE	fr
Pardubice Prvek	CZE	432	PK	9	10	99	12	2	3	CZE	fr
Pardubice Prvek	CZE	432	PK	5	39	149	29	-10	-4	CZE	vd
Pardubice Prvek	CZE	432	PK	5	9	177	23	14	11	DEU	mz
Kunovice	CZE	434	KNE	910	5	19	3	-2	-1	CZE	vd
Praha Kbely	CZE	438	K	905	5	15	5	0	0	CZE	fr
Praha Kbely	CZE	438	K	3	29	115	11	-18	-14	DEU	mz
Prerov	CZE	441	CK	920	3	19	3	0	0	CZE	vd
Holesov	CZE	448	HLV	930	1	11	1	0	0	CZE	vd
Moravska Trebova	CZE	492	TBV	8	18	84	13	-5	-2	CZE	vd
Moravska Trebova	CZE	492	TBV	4	15	164	15	0	0	CZE	fr
Moravska Trebova	CZE	492	TBV	2	36	239	28	-8	-6	DEU	mz
Namest nad Oslavou	CZE	514.5	XU	4	54	103	18	-36	-16	CZE	vd
Ostrava Mosnov/Rada	CZE	534	R	6	34	70	9	-25	-11	CZE	vd
Berlin Schonefeld	DEU	299	SL	3	29	147	16	-13	-10	DEU	mz
Hannover East	DEU	320	HA	4	19	327	33	14	11	DEU	mz
Berlin Tegel East	DEU	321	GL	4	19	169	21	2	2	DEU	mz
Berlin Planter	DEU	327	DIP	4	19	157	18	-1	-1	DEU	mz
Altenburg Nobitz	DEU	330	ABU	6	4	104	7	3	2	DEU	mz
Leipzig	DEU	340	ZIG	5	9	126	14	5	4	DEU	mz
Berlin	DEU	347	DBR	3	29	160	19	-10	-8	DEU	mz

Niederrhein	DEU	352	LAA	19	32	178	33	1	1	HOL	rb
Bautzen	DEU	359	BA	6	4	40	2	-2	-2	DEU	mz
Berlin Schönefeld	DEU	362	SLN	4	19	147	16	-3	-2	DEU	mz
Magdeburg	DEU	367	MU	4	19	196	25	6	5	DEU	mz
Dresden	DEU	374	FS	920	1	15	1	0	0	DEU	mz
Dresden	DEU	374	FS	2	19	135	14	-5	-8	CZE	fr
Nordlingen	DEU	375	NDG	2	36	360	36	0	0	DEU	mz
Grafenwohr	DEU	405	GRW	2	36	214	26	-10	-8	DEU	mz
Holzendorf	DEU	406	HOZ	7	2	98	4	2	2	DEU	mz
Wunstorf	DEU	419	WUN	4	19	348	34	15	12	DEU	mz
Erfurt	DEU	425	ERT	5	9	216	27	18	14	DEU	mz
Rothenburg	DEU	432	RO	4	19	72	3	-16	-13	DEU	mz
Leipzig Halle	DEU	434	SK	5	9	137	15	6	5	DEU	mz
Hof	DEU	484	HOF	3	29	182	24	-5	-4	DEU	mz
Chiltern	ENG	277	CHT	980	1	11	1	0	0	ENG	ds
Chiltern	ENG	277	CHT	6.2	6	40	9	3	3	ENG	bk
Chiltern	ENG	277	CHT	37	20	112	15	-5	-5	ENG	py
Lyneham	ENG	282	LA	8	5	112	22	17	22	ENG	ds
Lyneham	ENG	282	LA	3.8	20	116	24	4	4	ENG	bk
Epsom	ENG	316	EPM	9.2	1	5	1	0	0	ENG	bk
Epsom	ENG	316	EPM	5	14	42	8	-6	-8	ENG	ds
Epsom	ENG	316	EPM	35	25	82	12	-13	-13	ENG	py
London City	ENG	322	LCY	3	22	40	5	-17	-22	ENG	ds
London City	ENG	322	LCY	4.8	14	40	9	-5	-6	ENG	bk
London City	ENG	322	LCY	30	28	78	10	-18	-17	ENG	py
Sherburn in Elmet	ENG	323	SBL	6.1	9	66	9	0	0	ENG	ag
Blackbushe	ENG	328	BLK	5.1	11	33	6	-5	-6	ENG	bk
Blackbushe	ENG	328	BLK	7	9	51	12	3	4	ENG	ds
Shoreham	ENG	332	SHM	38	16	62	5	-11	-11	ENG	py
Shoreham	ENG	332	SHM	3	22	96	20	-2	-3	ENG	ds
Cambridge	ENG	332.5	CAM	4	18	70	16	-2	-3	ENG	ds
Cambridge	ENG	332.5	CAM	2.5	24	111	23	-1	-1	ENG	bk
Cambridge	ENG	332.5	CAM	27	31	150	23	-8	-8	ENG	py
Sheffield	ENG	333	SMF	6.5	8	60	7	-1	-2	ENG	ag
Westcott	ENG	335	WCO	9	2	41	7	5	7	ENG	ds
Westcott	ENG	335	WCO	5.5	7	76	13	6	7	ENG	bk
Westcott	ENG	335	WCO	36	23	152	24	1	1	ENG	py
Warton	ENG	337	WTN	7.5	2	46	4	2	5	ENG	ag
Robin Hood (Doncaster)	ENG	338	FNY	6.9	7	80	11	4	10	ENG	ag
London Gatwick	ENG	338	GE	5.2	9	25	4	-5	-6	ENG	bk
London Gatwick	ENG	338	GE	37	21	37	3	-18	-17	ENG	py
London Gatwick	ENG	338	GE	3	22	64	14	-8	-10	ENG	ds
Bournemouth	ENG	339	BIA	2.5	24	116	24	0	0	ENG	bk
Bournemouth	ENG	339	BIA	38	18	171	26	8	8	ENG	py
Lashenden	ENG	340	LSH	50	6	30	2	-4	-4	ENG	py
Lashenden	ENG	340	LSH	5.2	9	72	12	3	3	ENG	bk
Lashenden	ENG	340	LSH	4	18	95	19	1	1	ENG	ds
Redhill	ENG	343	TST	6.7	4	27	5	1	1	ENG	bk
Redhill	ENG	343	TST	45	8	62	6	-2	-2	ENG	py
Luton	ENG	345	LUT	5	14	25	2	-12	-16	ENG	ds
Luton	ENG	345	LUT	29	29	126	19	-10	-10	ENG	py
Manston	ENG	347	MTN	39	14	74	8	-6	-6	ENG	py
Manston	ENG	347	MTN	22	29	158	28	-1	-1	HOL	rb
Fairoaks	ENG	348	FOS	5.2	9	15	2	-7	-8	ENG	bk
Fairoaks	ENG	348	FOS	7	9	40	5	-4	-5	ENG	ds
Liverpool	ENG	349.5	LPL	5	11	50	5	-6	-15	ENG	ag
Woodley	ENG	352	WOD	6.4	5	40	9	4	4	ENG	bk
Woodley	ENG	352	WOD	8	5	42	8	3	4	ENG	ds
Southend	ENG	362.5	SND	37	19	77	9	-10	-10	ENG	py
Southend	ENG	362.5	SND	8	5	78	17	12	16	ENG	ds
Southend	ENG	362.5	SND	4.8	14	82	17	3	3	ENG	bk
Southend	ENG	362.5	SND	17	35	201	38	3	2	HOL	rb
Coventry	ENG	363.5	CT	4	18	104	21	3	4	ENG	ds
London Gatwick	ENG	365	GY	7.5	2	17	3	1	1	ENG	bk
London Gatwick	ENG	365	GY	4	18	64	14	-4	-5	ENG	ds
London Gatwick	ENG	365	GY	36	22	68	7	-15	-15	ENG	py
Oxford	ENG	367.5	OX	5	14	64	14	0	0	ENG	ds
Oxford	ENG	367.5	OX	4.8	14	90	19	5	6	ENG	bk
Whitegate	ENG	368.5	WHI	4	12	60	7	-5	-12	ENG	ag
Rochester	ENG	369	RCH	38	17	38	4	-13	-13	ENG	py

Northampton	ENG	378.5	NN	2.5	24	117	26	2	2	ENG	bk
Woodford	ENG	380	WFD	7.5	2	35	2	0	0	ENG	ag
Walney Is / Barrow	ENG	385	WL	7.5	2	89	12	10	25	ENG	ag
Brize Norton	ENG	386	BZ	6	11	82	18	7	9	ENG	ds
Brize Norton	ENG	386	BZ	4.7	17	100	21	4	4	ENG	bk
Bourn	ENG	391.5	BOU	2.5	24	107	22	-2	-2	ENG	bk
Southampton Eastleigh	ENG	391.5	EAS	2.5	24	77	14	-10	-11	ENG	bk
Lydd	ENG	397	LZD	47	7	28	1	-6	-6	ENG	py
Lydd	ENG	397	LZD	3.9	19	98	20	1	1	ENG	bk
Leeds/Bradford	ENG	402.5	LBA	7.5	2	42	3	1	3	ENG	ag
Gt.Yarmouth Nth Dene	ENG	417	ND	15	36	180	35	-1	-1	HOL	rb
Lee on Solent	ENG	419	LSO	2.5	24	77	14	-10	-11	ENG	bk
Lee on Solent	ENG	419	LSO	27	30	125	18	-12	-12	ENG	py
Blackpool	ENG	420	BPL	7.3	5	58	6	1	3	ENG	ag
Burnham	ENG	421	BUR	8	5	27	3	-2	-3	ENG	ds
Burnham	ENG	421	BUR	7.1	3	34	7	4	4	ENG	bk
Burnham	ENG	421	BUR	32	26	112	14	-12	-12	ENG	py
Bembridge Is.of Wight	ENG	426	IW	2.5	24	83	18	-6	-7	ENG	bk
Manchester	ENG	428	MCH	7.1	6	34	1	-5	-12	ENG	ag
Stanstead	ENG	429	SSD	7	9	50	11	2	3	ENG	ds
Stanstead	ENG	429	SSD	4.8	14	81	16	2	2	ENG	bk
Stanstead	ENG	429	SSD	30	27	115	16	-11	-11	ENG	py
Henton	ENG	433.5	HEN	9	2	27	3	1	1	ENG	ds
Henton	ENG	433.5	HEN	5	12	61	11	-1	-1	ENG	bk
Lichfield	ENG	545	LIC	4	18	146	23	5	7	ENG	ds
Cranfield	ENG	850	CIT	6	11	49	10	-1	-1	ENG	ds
Avord	FRA	288.5	AVD	2	17	309	17	0	0	FRA	pv
Grenoble	FRA	291	WS	7	2	66	4	2	3	FRA	pv
St. Etienne Boutheon	FRA	299	BO	3	13	132	11	-2	-3	FRA	pv
Romorantin	FRA	301	RTN	3	13	389	18	5	8	FRA	pv
Dole	FRA	309	DO	3	13	176	15	2	3	FRA	pv
Valenciennes	FRA	317	VS	39	5	129	22	17	13	HOL	rb
Valence	FRA	320	VE	2	17	106	8	-9	-15	FRA	pv
Moulines	FRA	324	MOU	3	13	228	16	3	5	FRA	pv
Merville Calonne	FRA	327	MVC	38	7	125	20	13	10	HOL	rb
Merville Calonne	FRA	327	MVC	53	4	146	21	17	16	ENG	py
Lille Lesquin	FRA	332	LL	35	11	106	16	5	4	HOL	rb
Lille Lesquin	FRA	332	LL	41	12	188	30	18	17	ENG	py
Amiens Glisy	FRA	339	GI	43	10	178	28	18	17	ENG	py
Amiens Glisy	FRA	339	GI	29	18	201	38	20	15	HOL	rb
Villefranche Tarare	FRA	344	TR	5	5	117	9	4	7	FRA	pv
Chambery	FRA	346	CH	910	1	16	1	0	0	FRA	pv
Le Havre	FRA	346	LHO	38	15	146	20	5	5	ENG	py
Dieppe	FRA	351	DSA	57	1	117	17	16	15	ENG	py
Charleville Mezieres	FRA	379	CZ	27	21	196	37	16	12	HOL	rb
St.Etienne Boutheon	FRA	379	EB	3	13	134	12	-1	-2	FRA	pv
Ancey Meythet	FRA	384	AT	7	2	44	2	0	0	FRA	pv
St. Inglevert	FRA	387	ING	57	2	81	11	9	9	ENG	py
St. Inglevert	FRA	387	ING	37	9	147	27	18	14	HOL	rb
Lyon Bron	FRA	388	BR	6	4	79	6	2	3	FRA	pv
Beauvais	FRA	391	BV	40	13	186	29	16	15	ENG	py
Chalon Champforgeuil	FRA	391	CC	4	8	165	13	5	8	FRA	pv
Grenoble	FRA	397	EG	5	2	47	3	1	2	FRA	pv
Macon	FRA	400	MO	3	13	130	10	-3	-5	FRA	pv
Merville Calonne	FRA	404	MRV	43	1	112	18	17	13	HOL	rb
Merville Calonne	FRA	404	MRV	53	3	147	22	19	18	ENG	py
Merville Calonne	FRA	404	MRV	4.5	18	226	27	9	10	ENG	bk
Lyon St Exupery	FRA	405	LYS	4	8	70	5	-3	-5	FRA	pv
Calais Dunkerque	FRA	418	MK	51	5	104	13	8	8	ENG	py
Calais Dunkerque	FRA	418	MK	39	5	122	19	14	11	HOL	rb
Bourg	FRA	423	BOR	4	8	98	7	-1	-2	FRA	pv
St. Yan	FRA	430	SN	3	13	171	14	1	2	FRA	pv
Alderney	GSY	383	ALD	43	9	237	31	22	21	ENG	py
Tapiosap	HNG	306	TPS	4	48	244	48	0	0	CZE	vd
Papa	HNG	318	CP	7	27	204	40	13	6	CZE	vd
Papa	HNG	318	PC	7	27	204	40	13	6	CZE	vd
Budapest Ferihegy	HNG	335	BL	3	57	233	46	-11	-5	CZE	vd
Budapest	HNG	343	A	3	57	237	47	-10	-4	CZE	vd
Sagvar	HNG	348	SVR	7	27	273	54	27	12	CZE	vd
Gyor	HNG	354	GYR	8	18	177	34	16	7	CZE	vd

Pusztaszabolcs	HNG	386	PTB	7	27	249	51	24	11	CZE	vd
Budapest Ferihegy	HNG	395	BR	901	7	248	50	43	19	CZE	vd
Budapest	HNG	420	HM	4	47	245	49	2	1	CZE	vd
Sarmalleek	HNG	428	SME	4	46	287	55	9	4	CZE	vd
Bugac	HNG	430	BUG	4	45	328	59	14	6	CZE	vd
Papa	HNG	493	P	4	50	208	43	-7	-3	CZE	vd
Jaszbereny	HNG	517	JBR	3	57	264	53	-4	-2	CZE	vd
Lelystad	HOL	326	LLS	20	30	171	32	2	2	HOL	rb
Amsterdam Nieuwkoop	HOL	332	NV	28	19	108	17	-2	-2	HOL	rb
Rotterdam	HOL	350.5	ROT	31	16	79	9	-7	-5	HOL	rb
Rotterdam Zestienhoven	HOL	369	PS	33	14	59	3	-11	-8	HOL	rb
Maastricht Beek	HOL	373	NW	12	38	168	31	-7	-5	HOL	rb
Amsterdam Weesp	HOL	376	WP	25	25	135	25	0	0	HOL	rb
Gulpen	HOL	383.5	GUL	18	34	178	33	-1	-1	HOL	rb
Stad Haringvliet	HOL	386	STD	28	19	52	1	-18	-14	HOL	rb
Amsterdam Schipol	HOL	388.5	CH	23	28	104	15	-13	-10	HOL	rb
Teuge	HOL	391	TGE	12	38	185	36	-2	-2	HOL	rb
Amsterdam Schipol	HOL	395	OA	19	32	134	24	-8	-6	HOL	rb
Eindhoven	HOL	397	EHN	20	30	125	20	-10	-8	HOL	rb
Rotterdam	HOL	404.5	RR	25	25	98	14	-11	-8	HOL	rb
Zagreb Kraljevec	HRV	350	SK	2	64	392	63	-1	0	CZE	vd
Osijek	HRV	422	OSJ	4	42	436	64	22	10	CZE	vd
Katowice Pyrzowice	POL	285	PT	7	27	183	36	9	4	CZE	vd
Krakow	POL	353	KRW	5	37	199	39	2	1	CZE	vd
Krakow	POL	353	KRW	6	4	433	38	34	27	DEU	mz
Chociwel	POL	375	CHO	5	9	280	29	20	16	DEU	mz
Krakow Balice	POL	379	L	2	64	182	35	-29	-13	CZE	vd
Belchatow	POL	385	MT	2	64	323	58	-6	-3	CZE	vd
Babimost	POL	390	BBM	2	36	170	22	-14	-11	DEU	mz
Szczecin Goleniow	POL	397	OL	3	29	281	30	1	1	DEU	mz
Rzeszow Jasionka	POL	474	RZ	4	43	349	61	18	8	CZE	vd
Powidz	POL	478	GT	3	29	306	31	2	2	DEU	mz
Wroclaw Strachowice	POL	525	HG	4	51	207	42	-9	-4	CZE	vd
Wroclaw Strachowice	POL	525	HG	4	15	212	16	1	2	CZE	fr
Katowice Pyrzowice	POL	588	P	6	34	183	36	2	1	CZE	vd
Topola	SER	348	TPL	2	64	616	68	4	2	CZE	vd
Valjevo	SER	390	VAL	3	57	576	67	10	4	CZE	vd
Indija	SER	485	IA	2	64	502	66	2	1	CZE	vd
Sliac	SVK	295	F	4	53	140	24	-29	-13	CZE	vd
Piestany	SVK	297	C	8	18	74	11	-7	-3	CZE	vd
Dubove	SVK	310	DBV	9	11	106	18	7	3	CZE	vd
Bratislava	SVK	330	OB	8	18	126	23	5	2	CZE	vd
Bratislava	SVK	391	OKR	8	18	112	20	2	1	CZE	vd
Nitra	SVK	398	NIT	9	11	103	17	6	3	CZE	vd
Zilina	SVK	404	ZLA	8	18	79	12	-6	-3	CZE	vd
Sliac	SVK	412	FS	5	40	142	27	-13	-6	CZE	vd
Poprad Tatry	SVK	418	PW	3	57	189	38	-19	-8	CZE	vd
Bratislava ##+D(Praha.3sec)	SVK	429	D.	6	34	117	21	-13	-6	CZE	vd
Bratislava Barka	SVK	438	B	7	27	122	22	-5	-2	CZE	vd
Poprad Tatry East	SVK	438	PE	4	49	219	44	-5	-2	CZE	vd
Malacky Kuchyna	SVK	477	RP	9	11	87	15	4	2	CZE	vd
Zilina Hlinik	SVK	508	Z	8	18	85	14	-4	-2	CZE	vd
Trencin	SVK	695	T	5	41	55	7	-34	-15	CZE	vd
Maribor	SVN	334	MR	4	44	343	60	16	7	CZE	vd
Hawarden	WLS	340	HAW	6	10	75	10	0	0	ENG	ag

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29 July 2006