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Towards redefining the regional division of Poland for faunistic studies

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ABSTRACT. For summaries and inventories of fauna of Poland, especially insects, research professionals and amateurs apply a division of the country into regions that became a functional standard in the 1960s when Catalogus Faunae Poloniae was published. Despite its long tradition in the local entomological literature, this approach should be treated as inadequate and provisional. The present article gives an overview of the roots of the traditional division, discusses its limitations and proposes a new, more precise and informative division, together with a description of the requirements and tools needed for the transition. Based on the "Physico-Geographical Regionalization of Poland" by KONDRACKI, this proposal redefines the borders of most of the KFP regions and presents a solution compatible with the widely used regionalization system, approved by geographers. In consequence of this direct connection with physical geography, some of the KFP regions have been removed or rearranged and new ones formed. The new system is not meant to be treated as a zoogeographical regionalization; rather, it aims to replace the unclearly defined objects of the old division, facilitating regional comparisons of fauna. Used with appropriate caution, it may also be helpful in analyses involving elements of biogeographical inference that were not justified in the old system.

Key words: Catalogus Faunae Poloniae, faunistics, GIS, KFP, Kondracki, physical geography, Poland, regionalization.

INTRODUCTION

It is needless to prove the usefulness of regionalization divisions for studies of any groups of organisms. All types of analyses pertaining to the distribution of taxa may require data summaries or inventories of the objects studied. Dividing larger areas into regions is justified by the scope and scale of the data analysed. Besides the purpose of the study, these two elements also define the type of regionalization appropriate in a particular case.

For biogeographical studies, regions should be defined by natural features that depend on the properties of the environment, such as elevation, climate, geomorphology or vegetation type. The observed occurrence of organisms may in this way be related to natural factors which drive their distribution. Such an approach is reasonable mainly at large scales, where the occurrence data cover diverse areas.

If the scope of the data does not require or justify biogeographical inference, the criteria used for choosing an appropriate regionalization system do not need to be of a natural character: administrative boundaries, for example, can be applied. In such cases, the regions delineated may merely act as containers, helping to sort data and compare summarized results between the regions.

For summaries and inventories of the fauna of Poland, especially insects, professional researchers and amateurs apply a division of the country into regions introduced with the Catalogus Faunae Poloniae (henceforth referred to as KFP). It was first published more than 40 years ago (RAFALSKI 1960) and became a functional standard, although its authors did claim that "the division of Poland into regions was made provisionally" and that "it should not be treated as a zoogeographical division, fully justified with proper faunistic research". Even though this division has been criticized many times in the past (e.g. LIANA 2000), the regions defined in KFP are still in use.

Maintaining the KFP regionalization was long explained by the need for stability, allowing new research results to be back-referenced to earlier ones, thus creating a self-justifying mechanism. Indeed, access to detailed cartographic data and tools was limited over the years, and switching to a different solution would require older data to be recalculated in order to be used, which was hardly possible from the technical point of view. Nowadays, thanks to recent developments in information technology, mass data transformation, including its necessary cartographic component, is no longer an obstacle. The aim of this article is to change the current situation, to propose a new solution and a method of regionalization that will be suitable for faunistics, providing the best conformity possible with the old system on the one hand, and being better defined than the KFP regions on the other.

Why is the KFP regionalization not perfect and what solution would be more appropriate?

Although the KFP regions were supposed to be replaced by a more elaborate regionalization system, this never happened. In the meantime, several options appeared and entomologists could adopt one of the systems that began to function and were used by other

groups. One of the possibilities was the "Natural-Forest Regionalization System" described by TRAMPLER et al. (1990), based on mixed eco-physiographical criteria, which became widely used in forestry. Another was the "Geo-Botanical Regionalization" (MATUSZKIEWICZ 1993), based partially on earlier works by SZAFER (1972). This division was based on a complex set of criteria, using geomorphological and floristic analyses, including maps of the potential natural vegetation of Poland. The third option is the "Physico-Geographical Regionalization of Poland" by KONDRACKI (several editions and updates, the last one in 2002), widely accepted by Polish geographers and also used in other fields.

These systems are hierarchical, dividing larger areas into smaller ones, described according to criteria appropriate for a regionalization. However, none of them replaced the KFP regionalization. It is possible that their level of complexity was one of the main reasons precluding their propagation among entomologists and other groups of specialists.

Being less complicated, the KFP regionalization was much easier to use, enumerating 24 regions, 4 of which were actually subregions (Białowieża Forest, Trzebnica Hills, Świętokrzyskie Mts., Nowy Targ Basin), representing specific cases rather than a hierarchy. On the other hand, they were never so well documented as the alternatives, and in many cases it was not easy to attribute a locality to a region, unless a detailed index of localities mapped to the KFP regions was available. In the last ten years, when copying techniques came into common use, the more meticulous researchers kept a copy of the original source map defining the borders between KFP regions. The map itself illustrates the provisional nature of the division. It is an administrative map of Poland, scale 1:500000, issued in 1956. Owing to the military restrictions of that time, the distances between objects placed on the map were deliberately altered, so that the positions of many localities do not represent their real positions. Hence, the borderlines have slightly different shapes on the original paper map than after their transfer to a GIS environment, where objects keep their real positions. The authors tried very hard to draw the lines in such a way that they would not cut through villages and to provide a clear delimitation of regions.

The main drawbacks of the KFP regionalization are the inconsistent criteria defining a region's borders. In some areas, the borders are highly convoluted, whereas elsewhere they may be almost straight. This in itself is not an argument refuting accuracy, but the winding, twisting nature of the delimiting lines is usually a reflection of the administrative borders that they were obviously based upon (Fig. 1). This is not what one would expect of a system intended to divide the country into regions. The shapes of many parts of the KFP map clearly show that they were drawn arbitrarily, without a thorough analysis of geomorphology (Fig. 2).

The names of the regions provide another example of the mixed origins of the KFP regionalization. In some cases (e.g. Upper Silesia, Podlasie) they refer to historical and

traditional names of regions that are difficult or even impossible to delimit without other specialists raising objections. Some other areas, especially mountainous ones, are much easier to define and were given geographical names (like Bieszczady, Tatras), although the borders are often questionable (e.g. in the Masurian Lake District, Wielkopolska-Kujawy Lowland).



Fig. 1. An example illustrating how the borders between KFP regions were traced. Horizontal arrows mark tracing along administrative borders.

Finally, apart from the incorrect localization of regional borders, some regions were called into existence without justification, whereas others are missing. A clear example of the first category are the Trzebnica Hills, not existing in any other regionalization as a separate first-order unit. One of the absent regions is Polesie, an area for which there are enough historical and geographical premises to justify its existence.

The number and borders of the KFP regions suggest that their authors were trying to simplify the map, attuning the areas and shapes of the units distinguished. As a result, most

of the regions are completely artificial, only roughly located where their real geographical counterparts would be placed, and some of them encompass external areas (e.g. the Dobrzyńskie Lake District is incorporated in the Masurian Lake District).



Fig. 2. An example of the arbitrary delimitation of a KFP regional border (Świętokrzyskie Mts.).

The proposed system, its back-reference and compatibility

There is no doubt that the old system should be replaced with a better solution, built on a more solid rationale. Analysis of the deficiencies of the KFP regionalization makes obvious at least some of the features of the new division:

1. it should be based on a well-defined existing regionalization of the country rather than on the creation of a completely new system,

2. it should preserve as much continuity as possible with the old system, in order to enable users to adapt to the changes.

Regardless of the system chosen, some changes will be inevitable if these requirements are to be complied with:

- the borders of the new division will in almost all cases be different from the old ones,
- the new borders will be adjusted to the borders of units existing in the system chosen,
- some areas will have to be removed, others will appear,
- in order to preserve continuity, the new units will have to group areas of the source system, sometimes without adhering to the rules of hierarchy, i.e. joining areas belonging to different higher units

Though better defined, the new units cannot be used directly for zoogeographical studies, as in most cases the territory of the whole country is not large enough for this scale

of analysis. Regionalization is mainly an auxiliary tool for summaries of the Polish fauna.

Among the existing regionalization systems, KONDRACKI's division of the country has been chosen as the most suitable basis of the new approach that could replace the old KFP regions. It is more neutral than the forestry- or botany-biased alternatives (TRAMPLER et al. 1990, MATUSZKIEWICZ 1993), as it is based on the criteria of physical geography and also takes into account the historical aspects of the regions. The only system conforming to international geographical standards, it is accepted by the geographical community in Poland. Its suitability for faunistic purposes has been already noticed, and some authors have used it in entomological review studies (SZADZIEWSKI 1985, LIS 1989, LIS 1990), although it has never gained the popularity it deserves.

The hierarchy of objects defined in this division contains 6 levels: megaregions, provinces, subprovinces, macroregions, mesoregions, microregions. The basic unit used to delimit the borders of the areas replacing the KFP regions is the mesoregion, so the borders of all the new units are traced along the borders of a group of mesoregions. In most cases, the borders of the new units are also the borders of KONDRACKI's macroregions; however, because of the need to make the new division similar to the KFP regionalization, the new borders often extend beyond the borders of the macroregions.

The proposed division consists of the following regions, visualized in Figs. 3 and 4 (the Polish names of the KFP and the current division are given in brackets):

- Baltic Coastlands (Pobrzeże Baltyku): instead of Baltic Coast in KFP; as the new unit extends quite a long way from the coast, the English name should be more general, not suggesting a narrow belt along the coastline; it consists of a Southern and an Eastern Part, according to KONDRACKI's division into two subprovinces.
- Pomeranian Lakeland (Pojezierze Pomorskie): the modified KFP region, including several lake district macroregions in the north of Poland, reaching east as far as the River Vistula.
- 3. Eastern Lakelands (Pojezierza Wschodnie): instead of the former KFP Masurian Lake District (Pojezierze Mazurskie), which was expanding too far in all directions; the term Masurian Lakeland is now confined to the relevant macroregion.
- 4. Wielkopolska-Lubusz (Obszar Wielkopolsko-Lubuski): instead of the Wielkopolska-Kujawy Lowland (Nizina Wielkopolsko-Kujawska) in KFP; according to the macroregions of KONDRACKI, it is divided into a northern Lakeland Part and a southern Lowland Part. As the area reaches the western border of the country, the name has been changed to describe its broad geographical extent (including Kujawy) more precisely.
- Mazovia (Mazowsze): formerly Mazovian Lowland (Nizina Mazowiecka); now extending more to the north and south; divided into three sub-areas according to the macroregions – Northern, Central and Southern Parts; as the last-named part is not of a lowland character, the proposed name is simply Mazovia.



Fig. 3. An overview of the proposed regionalization. The names of the main areas are printed in the bigger font; the other labels indicate the named subunits of the main areas. The Polish names of the areas are provided in the text.

6. Podlasie: modified but existing in KFP; divided into three named subunits: a northern Upland Part, a southern Lowland Part and the Białowieża Primeval Forest (Puszcza Białowieska); while the first two are justified by geomorphology, the Białowieża Forest subunit is delimited for the sake of compatibility with KFP, exceptionally without any connection to mesoregion borders and defined independently of KFP, according to the Forest's current borders.

- 7. **Polesie**: non-existent in KFP; created on the basis of two distinct macroregions in KONDRACKI's regionalization.
- 8. Lower Silesia (Dolny Śląsk): enlarged in comparison with the corresponding KFP region, encompassing the former Trzebnica Hills (Wzgórza Trzebnickie) in the north and a few macroregions formerly included in the Wielkopolska-Kujawy Lowland; the southern sub-area of the Sudetian Foothills (Pogórza Sudeckie) is geomorphologically distinct from the mostly lowland terrains and should be delimited.
- 9. Upper Silesia (Górny Śląsk): the borders are altered in comparison with the corresponding region in KFP in the north according to the borders of the Kraków-Wieluń Upland (Wyżyna Krakowsko-Wieluńska), in the west so as to include the Głubczyce Plateau and Racibórz Basin. Exceptionally, the south-eastern border is not traced along macroregion borders so as to include the Pszczyna Plain mesoregion, which belongs to the Northern Subcarpathian Subprovince. According to the macroregion borders located in the proposed area, three subunits should be distinguished: a Lowland, an Upland and a Subcarpathian Part. Owing to the complex history of this part of Europe, the borders of both Silesian regions are especially difficult to define and frequently cause disagreements among geographers and historians. The aim of the current division is not to get involved in these discussions, but to find the least questionable solution that meets the requirement of using the borders of KONDRACKI's regionalization as the basis.
- Kraków-Wieluń Upland (Wyżyna Krakowsko-Wieluńska): exists in KFP, but with significantly changed borders, especially in the northern part; it merges the Kraków-Częstochowa and Woźnice-Wieluń macroregions as defined by KONDRACKI.
- 11. **Malopolska Upland (Wyżyna Malopolska)**: the northern border is shifted south in comparison with the corresponding KFP region; the Świętokrzyskie Mts. subunit (Góry Świętokrzyskie) is different from its KFP counterpart owing to the arbitrarily traced borders of the latter.
- 12. Lublin Upland (Wyżyna Lubelska): with the exception of the western part, this unit is strongly modified in comparison to its KFP counterpart, being delimited according to the borders of the corresponding macroregion.
- 13. **Roztocze**: strongly modified in comparison to its KFP counterpart; it is delimited according to the borders of the corresponding macroregion.
- 14. Volhynian Upland (Wyżyna Wołyńska): non-existent in the KFP regionalization; formed according to the corresponding macroregion.
- 15. Sudety Mts. (Sudety): defined more precisely than in KFP; the unit does not cover the Sudetian Foothills, which are here included in Lower Silesia. The KFP division distinguished the Western and Eastern Sudetes, whereas KONDRACKI delimited three parts: the Eastern, Central and Western Sudety Mts., assigning them subunit status.

16. Northern Subcarpathia (Podkarpacie Północne): traced along the borders of the corresponding macroregion in KONDRACKI's regionalization (except for the mesoregion included in Upper Silesia), covering the lowland terrain between the subprovince of the Outer Western Carpathians and the uplands to the north; the Sandomierz Basin (Kotlina Sandomierska), present in KFP, has been accorded subunit status.



Fig. 4. A superposition of the KFP regionalization, the macroregion level of KONDRACKI'S regionalization, and the borders of the proposed areas. With the exception of the red lines and the Białowieża Primeval Forest, all the borders in the new division are traced along macroregion borders.

- 17. Beskid Mts. and Foothills (Beskidy i Pogórza): corresponds roughly to the former Western and Eastern Beskid Mts. (Beskid Zachodni, Beskid Wschodni) in KFP, but divided into subunits for the sake of clarity. As KONDRACKI does not distinguish the Eastern Beskid macroregion, only the Western and Central Beskid Mts. are delimited here as subunits. The rest of the area are the Beskid Foothills.
- 18. Orawa-Podhale (Obszar Orawsko-Podhalański): corresponds to the combined area of the Nowy Targ Basin (Kotlina Nowotarska) and the Pieniny Mts. as delimited in KFP. As KONDRACKI has clearly defined a mesoregion called the Orawa-Nowy Targ Basin (Kotlina Orawsko-Nowotarska), it is distinguished here as a subunit. Another subunit retained is the Pieniny Mts., though more restricted in area here than in KFP.
- 19. Eastern Subcarpathia (Podkarpacie Wschodnie): not distinguished in KFP, traced along the borders of the Chyrów Plateau mesoregion; this is the only representative of the Eastern Subcarpathian Subprovince according to the regionalization by KONDRACKI.
- 20. Eastern Carpathians (Karpaty Wschodnie): not distinguished in KFP as a region, traced and named according to the KONDRACKI's corresponding macroregion; the Bieszczady Mts. are preserved as a subunit.
- 21. Tatra Mts. (Tatry): not significantly modified; corresponding to the KFP region.

Chances of implementation

The authors of previous attempts to adopt KONDRACKI'S physico-geographical system (SZADZIEWSKI 1985, LIS 1989) traced regions at a simplified level of subprovinces, with merged lowland areas and the distinction of the Pomeranian Lakeland from the Eastern Baltic Lakelands. They did not preserve the historical component of the division of the country, so clear in KFP, and traditional areas such as Mazovia or Upper Silesia were not present on the map. It is possible that the viability of a system is to some extent associated with maintaining the historical/traditional background so as to encourage local naturalists to prepare regional checklists. The current proposal represents a slightly different approach: it maintains similar foundations, but also provides for continuity with the old-established division.

Changes in the proposed, new division compared to the borders of the KFP regions obviously give rise to a different assignment of objects located within overlapping areas. In order to make it easier to see the differences, supplementary lists are given (Tables 1 and 2, Appendix I). A map is also provided, showing the current and KFP assignment of procincial capitals and county towns (Fig. 5).

If the proposed system is accepted by the entomologists' community, switching from the old to the new one has to be a process and users should be provided with tools making the transition as easy as possible. Additional tools and access to more detailed information and the maps presented in this article is possible through the website of the Polish Biodiversity Information Network (http://www.ksib.pl, the "Tools" link) or the page of the Map of the Biodiversity Project (http://www.biomap.pl/tools). Currently, the gazetteer is available on the PolBIN webpage, offering a rich database for search (ca 115 000 localities) and mapping the searched objects to different levels of KONDRACKI'S regionalization. The assignments of localities to other systems (administrative, UTM, ATPOL) can also be found.



Fig. 5. A map showing the assignment of provincial capitals and county towns to KFP regions and units of the new division.



Fig. 6. A superposition of the KFP regions, the proposed, new division and the UTM grid (10×10 km). The UTM squares contained (i.e. not crossed by borders) in the units of the new division are coloured according to their spatial relation to respective KFP regions. Dark grey: squares contained in both the new units and the corresponding KFP regions, common to both divisions; grey (under KFP regional borders): squares contained in the new units, crossed by the borders of the KFP regions; white: squares contained in the new units, not crossed by the borders of the KFP regions and not matching the corresponding KFP regions. Lists of the marked UTM squares are provided in Appendix II. They may be useful for checking whether a UTM square lies completely within a unit of the new division and what its relation to the KFP regionalization is.

Implementation of the new division is also facilitated by mapping the new units on the popular UTM square grid (10×10 km). The superposition of the borders of both divisions and the UTM system is presented in Fig. 6 and the results are listed in Appendix II.

Regardless of the available tools and facilities, implementation of the new proposal will inevitably give rise to discussions and doubts. The new system is to some extent flexible, as far as its basic assumptions are concerned, i.e. the borders of its areas follow the borders of units delimited by the underlying regionalization system. The system is not ideal. Indeed, no such system exists, as any division of the country into regions will generate disagreements at a certain level of detail. Founded on a sound basis, the new regionalization may find more applications and better describe the country's regional differences than the old system, entangled as this is in an unclear and questionable background methodology. The units defined in the current proposal are easily mapped to objects of the widely accepted geographical system of KONDRACKI. In some cases, when carefully handled, the new regions may be used in comparisons that have a biological sense, not serving merely as containers facilitating the partition of faunal inventories. Well-defined regions with distinctly different environmental conditions (e.g. mountain and lowland areas) can now be compared, which was not justified with the units of the old division.

KFP ID	KFP region	Overlapping new units	
2	Baltic Coast	Pomeranian Lakeland, Baltic Coastlands	
3	Pomeranian Lake District	Baltic Coastlands, Eastern Lakelands, Pomeranian Lakeland, Wielkopolska-Lubusz	
4	Masurian Lake District	Podlasie, Baltic Coastlands, Mazovia, Eastern Lakelands	
5	Wielkopolska-Kujawy Lowland	Pomeranian Lakeland, Mazovia, Lower Silesia, Eastern Lakelands, Wielkopolska-Lubusz	
6	Mazovian Lowland	Polesie, Eastern Lakelands, Podlasie, Wielkopolska- Lubusz, Mazovia	
7	Podlasie	Mazovia, Podlasie, Polesie	
7a	Białowieża Primeval Forest	Podlasie, [Białowieża Primeval Forest]	
8	Lower Silesia	Lower Silesia, Sudety Mts., Upper Silesia, Wielkopolska- Lubusz	
8a	Trzebnica Hills	Wielkopolska-Lubusz, Lower Silesia	
9	Upper Silesia	Lower Silesia, Kraków-Wieluń Upland, Beskid Mts. and Foothills, Upper Silesia, Wielkopolska-Lubusz, Northern Subcarpathia	

Table 1. A list of KFP regions and units of the new division that they overlap. The new subunits that match the relevant KFP regions or subregions are given in square brackets in the right-hand column. The first column contains the codes of KFP regions; numbers followed by 'a' refer to subregions.

10	Kraków-Wieluń Upland	Małopolska Upland, Kraków-Wieluń Upland, Wielkopolska-Lubusz, Upper Silesia, Northern Subcarpathia, Beskid Mts. and Foothills		
11	Małopolska Upland	Lublin Upland, Mazovia, Wielkopolska-Lubusz, Northern Subcarpathia, Kraków-Wieluń Upland, Małopolska Upland		
11a	Świętokrzyskie Mts.	Małopolska Upland, [Świętokrzyskie Mts.]		
12	Lublin Upland	Lublin Upland, Mazovia, Northern Subcarpathia, Podlasie, Volhynian Upland, Roztocze, Polesie		
13	Roztocze	Northern Subcarpathia, Roztocze, Lublin Upland, Volhynian Upland		
14	Sandomierz Lowland	Roztocze, Northern Subcarpathia, Eastern Subcarpathia, Beskid Mts. and Foothills, [Sandomierz Basin]		
15	Western Sudetes	Lower Silesia, Sudety Mts. [Western Sudety Mts.]		
16	Eastern Sudetes	Lower Silesia, Sudety Mts., Upper Silesia, [Eastern Sudety Mts.]		
17	Western Beskid Mts.	Beskid Mts. and Foothills, Upper Silesia, Northern Subcarpathia, Orawa-Podhale, [Western Beskid Mts.]		
17a	Nowy Targ Basin	Beskid Mts. and Foothills, Orawa-Podhale, [Orawa- Nowy Targ Basin]		
18	Eastern Beskid Mts.	Northern Subcarpathia, Beskid Mts. and Foothills, Eastern Subcarpathia, Eastern Carpathians		
19	Bieszczady Mts.	Eastern Carpathians, Beskid Mts. and Foothills, [Bieszczady Mts.]		
20	Pieniny Mts.	Orawa-Podhale, Beskid Mts. and Foothills, [Pieniny Mts.]		
21	Tatra Mts.	Tatra Mts., Orawa-Podhale		

Table 2. A list of units in the proposed division and the KFP regions that they overlap. If a new unit has named subunits, they are listed under its name in smaller font.

New unit	Overlapping KFP regions	
Baltic Coastlands	Baltic Coast, Masurian Lake District, Pomeranian Lake	
incl. Southern and Eastern Parts	District	
Domoronian Laboland	Baltic Coast, Pomeranian Lake District, Wielkopolska-	
Pomeranian Lakeland	Kujawy Lowland	
Eastern Lakelands	Mazovian Lowland, Masurian Lake District, Pomeranian	
incl. Masurian Lakeland	Lake District, Wielkopolska-Kujawy Lowland	
Wiellton alaka Luburg	Kraków-Wieluń Upland, Lower Silesia, Małopolska Upland,	
wielkopolska-Lubusz	Mazovian Lowland, Pomeranian Lake District, Trzebnica	
Incl. Lakeland and Lowland Parts	Hills, Upper Silesia, Wielkopolska-Kujawy Lowland	
Mazovia	Lublin Upland, Małopolska Upland, Mazovian Lowland,	
ivid Northern Control and Southern Darts	Masurian Lake District, Podlasie, Wielkopolska-Kujawy	
Inci. Northern, Central and Southern Parts	Lowland	

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Podlasie incl. Upland and Lowland Parts and Białowieża Primeval Forest	Białowieża Primeval Forest, Lublin Upland, Mazovian Lowland, Masurian Lake District, Podlasie
Polesie	Lublin Upland, Mazovian Lowland, Podlasie
Lower Silesia incl. Sudetian Foothills	Eastern Sudetes, Lower Silesia, Trzebnica Hills, Upper Silesia, Western Sudetes, Wielkopolska-Kujawy Lowland
Upper Silesia incl. Lowland, Upland and Subcarpathian Parts	Eastern Sudetes, Kraków-Wieluń Upland, Lower Silesia, Upper Silesia, Western Beskid Mts.
Kraków-Wieluń Upland	Kraków-Wieluń Upland, Małopolska Upland, Upper Silesia
Małopolska Upland incl. Świętokrzyskie Mts.	Kraków-Wieluń Upland, Małopolska Upland, Świętokrzyskie Mts.
Lublin Upland	Lublin Upland, Małopolska Upland, Roztocze
Roztocze	Lublin Upland, Roztocze, Sandomierz Lowland
Volhynian Upland	Lublin Upland, Roztocze
Sudety Mts. incl. Eastern, Central and Western Sudety Mts.	Eastern Sudetes, Lower Silesia, Western Sudetes
Northern Subcarpathia incl. Sandomierz Basin	Eastern Beskid Mts., Kraków-Wieluń Upland, Lublin Upland, Małopolska Upland, Roztocze, Sandomierz Lowland, Upper Silesia, Western Beskid Mts.
Beskid Mts. and Foothills incl. Western and Central Beskid Mts.	Bieszczady Mts., Eastern Beskid Mts., Kraków-Wieluń Upland, Nowy Targ Basin, Pieniny Mts., Sandomierz Lowland, Upper Silesia, Western Beskid Mts.
Orawa-Podhale incl. Orawa-Nowy Targ Basin, Pieniny Mts.	Nowy Targ Basin, Pieniny Mts., Tatra Mts., Western Beskid Mts.
Eastern Subcarpathia	Eastern Beskid Mts., Sandomierz Lowland
Eastern Carpathians incl. Bieszczady Mts.	Bieszczady Mts., Eastern Beskid Mts.
Tatra Mts.	Tatra Mts.

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Appendix I.

A list of provincial capitals and county towns and the units that they belong to, according to the KFP regionalization and the proposed new division. The "Status" column compares the assignment of the place: '=' – no change except for a possible difference in the name of the new unit; '>=' – the place is assigned to a subunit bearing the old name of the KFP region, although geographically confined; ' \approx ' – the new unit that replaces the KFP region has a different name, ' \neq ' – the place lies in a unit different from that in KFP. KFP ID – code of the KFP region. The list is sorted by KFP region ID and provincial capital/county town name.

Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Braniewo	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Elbląg	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Gdańsk	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Gdynia	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Kamień Pomorski	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Kołobrzeg	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Koszalin	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Nowy Dwór Gdański	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Police	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Puck	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Sopot	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Świnoujście	=	2	Baltic Coast	Baltic Coastlands	Southern Part
Białogard	≠	3	Pomeranian Lakeland	Baltic Coastlands	Southern Part
Bytów	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Chełmno	¥	3	Pomeranian Lake District	Eastern Lakelands	
Chojnice	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Choszczno	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Człuchów	=	3	Pomeranian Lake District	Pomeranian Lakeland	

Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Drawsko Pomorskie	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Goleniów	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Grudziądz	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Gryfice	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Gryfino	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Kartuzy	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Kościerzyna	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Kwidzyn	¥	3	Pomeranian Lake District	Eastern Lakelands	
Lębork	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Łobez	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Malbork	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Myślibórz	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Pruszcz Gdański	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Pyrzyce	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Sępólno Krajeńskie	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Sławno	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Słupsk	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Stargard Szczeciński	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Starogard Gdański	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Strzelce Krajeńskie	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Szczecin	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Szczecinek	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Sztum	ŧ	3	Pomeranian Lake District	Eastern Lakelands	
Świdwin	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Świecie	=	3	Pomeranian Lake District	Pomeranian Lakeland	

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Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Tczew	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Tuchola	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Wałcz	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Wejherowo	¥	3	Pomeranian Lake District	Baltic Coastlands	Southern Part
Złotów	=	3	Pomeranian Lake District	Pomeranian Lakeland	
Augustów	*	4	Masurian Lake District	Eastern Lakelands	
Bartoszyce	≠	4	Masurian Lake District	Baltic Coastlands	Eastern Part
Brodnica	*	4	Masurian Lake District	Eastern Lakelands	
Działdowo	¥	4	Masurian Lake District	Mazovia	Northern Part
Ełk	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Giżycko	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Golub-Dobrzyń	~	4	Masurian Lake District	Eastern Lakelands	
Gołdap	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Grajewo	≠	4	Masurian Lake District	Podlasie	Upland Part
Iława	ĸ	4	Masurian Lake District	Eastern Lakelands	
Kętrzyn	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Kolno	¥	4	Masurian Lake District	Podlasie	Upland Part
Lidzbark Warmiński	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Lipno	*	4	Masurian Lake District	Eastern Lakelands	
Mława	¥	4	Masurian Lake District	Mazovia	Northern Part
Mrągowo	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Nidzica	¥	4	Masurian Lake District	Mazovia	Northern Part
Nowe Miasto Lubawskie	≈	4	Masurian Lake District	Eastern Lakelands	
Olecko	ĸ	4	Masurian Lake District	Eastern Lakelands	
Olsztyn	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Olsztynek	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Ostróda	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4	Masurian Lake District	Eastern Lakelands	
Pisz	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Rypin	×	4	Masurian Lake District	Eastern Lakelands	
Sejny	≈	4	Masurian Lake District	Eastern Lakelands	
Sierpc	¥	4	Masurian Lake District	Mazovia	Northern Part
Suwałki	≈	4	Masurian Lake District	Eastern Lakelands	

Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Szczytno	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Wąbrzeźno	≈	4	Masurian Lake District	Eastern Lakelands	
Węgorzewo	>=	4	Masurian Lake District	Eastern Lakelands	Masurian Lakeland
Żuromin	¥	4	Masurian Lake District	Mazovia	Northern Part
Aleksandrów Kujawski	ы	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Bydgoszcz	ы	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Chodzież	ы	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Czarnków	ы	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Głogów	¥	5	Wielkopolska-Kujawy Lowland	Lower Silesia	
Gniezno	ĸ	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Gorzów Wielkopolski	и	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Gostynin	и	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Gostyń	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Góra	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Grodzisk Wielkopolski	*	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Inowrocław	*	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Jarocin	*	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Kalisz	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Koło	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Konin	≈	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Kościan	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Krosno Odrzańskie	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Krotoszyn	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Kutno	¥	5	Wielkopolska-Kujawy Lowland	Mazovia	Central Part
Leszno	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Łask	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part

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Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Łęczyca	¥	5	Wielkopolska-Kujawy Lowland	Mazovia	Central Part
Międzychód	≈	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Międzyrzecz	≈	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Milicz	¥	5	Wielkopolska-Kujawy Lowland	Lower Silesia	
Mogilno	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Nakło nad Notecią	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Nowa Sól	≠	5	Wielkopolska-Kujawy Lowland	Lower Silesia	
Nowy Tomyśl	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Oborniki	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Ostrów Wielkopolski	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Ostrzeszów	≠	5	Wielkopolska-Kujawy Lowland	Lower Silesia	
Piła	≠	5	Wielkopolska-Kujawy Lowland	Pomeranian Lakeland	
Pleszew	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Poddębice	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Poznań	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Radziejów	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Rawicz	≠	5	Wielkopolska-Kujawy Lowland	Lower Silesia	
Sieradz	×	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Słubice	×	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Słupca	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Sulęcin	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Szamotuły	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Śrem	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Środa Wielkopolska	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Świebodzin	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part

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Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Toruń	*	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Turek	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Wągrowiec	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Włocławek	*	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Wolsztyn	*	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Września	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Wschowa	≈	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Zduńska Wola	≈	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lowland Part
Zielona Góra	~	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Żagań	¥	5	Wielkopolska-Kujawy Lowland	Lower Silesia	
Żary	¥	5	Wielkopolska-Kujawy Lowland	Lower Silesia	
Żnin	≈	5	Wielkopolska-Kujawy Lowland	Wielkopolska-Lubusz	Lakeland Part
Ciechanów	=	6	Mazovian Lowland	Mazovia	Northern Part
Garwolin	=	6	Mazovian Lowland	Mazovia	Central Part
Grodzisk Mazowiecki	=	6	Mazovian Lowland	Mazovia	Central Part
Grójec	=	6	Mazovian Lowland	Mazovia	Southern Part
Kozienice	=	6	Mazovian Lowland	Mazovia	Central Part
Legionowo	=	6	Mazovian Lowland	Mazovia	Central Part
Łomża	=	6	Mazovian Lowland	Mazovia	Northern Part
Łowicz	=	6	Mazovian Lowland	Mazovia	Central Part
Maków Mazowiecki	=	6	Mazovian Lowland	Mazovia	Northern Part
Mińsk Mazowiecki	=	6	Mazovian Lowland	Mazovia	Central Part
Nowy Dwór Mazowiecki	=	6	Mazovian Lowland	Mazovia	Central Part
Ostrołęka	=	6	Mazovian Lowland	Mazovia	Northern Part
Ostrów Mazowiecka	=	6	Mazovian Lowland	Mazovia	Northern Part
Otwock	=	6	Mazovian Lowland	Mazovia	Central Part
Piaseczno	=	6	Mazovian Lowland	Mazovia	Central Part
Płock	¥	6	Mazovian Lowland	Eastern Lakelands	
Płońsk	=	6	Mazovian Lowland	Mazovia	Northern Part
Pruszków	=	6	Mazovian Lowland	Mazovia	Central Part
Przasnysz	=	6	Mazovian Lowland	Mazovia	Northern Part
Pułtusk	=	6	Mazovian Lowland	Mazovia	Northern Part
Rawa Mazowiecka	=	6	Mazovian Lowland	Mazovia	Southern Part

Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Ryki	≠	6	Mazovian Lowland	Podlasie	Lowland Part
Skierniewice	=	6	Mazovian Lowland	Mazovia	Central Part
Sochaczew	=	6	Mazovian Lowland	Mazovia	Central Part
Warszawa	=	6	Mazovian Lowland	Mazovia	Central Part
Wołomin	=	6	Mazovian Lowland	Mazovia	Central Part
Wyszków	=	6	Mazovian Lowland	Mazovia	Central Part
Zambrów	≠	6	Mazovian Lowland	Podlasie	Upland Part
Żyrardów	=	6	Mazovian Lowland	Mazovia	Central Part
Biała Podlaska	=	7	Podlasie	Podlasie	Lowland Part
Białystok	=	7	Podlasie	Podlasie	Upland Part
Bielsk Podlaski	=	7	Podlasie	Podlasie	Upland Part
Łosice	=	7	Podlasie	Podlasie	Lowland Part
Łuków	=	7	Podlasie	Podlasie	Lowland Part
Mońki	=	7	Podlasie	Podlasie	Upland Part
Parczew	≠	7	Podlasie	Polesie	
Radzyń Podlaski	=	7	Podlasie	Podlasie	Lowland Part
Siedlce	=	7	Podlasie	Podlasie	Lowland Part
Siemiatycze	=	7	Podlasie	Podlasie	Upland Part
Sokołów Podlaski	=	7	Podlasie	Podlasie	Lowland Part
Sokółka	=	7	Podlasie	Podlasie	Upland Part
Węgrów	=	7	Podlasie	Podlasie	Lowland Part
Włodawa	¥	7	Podlasie	Polesie	
Wysokie Mazowieckie	=	7	Podlasie	Podlasie	Upland Part
Hajnówka	¥	7a	Białowieża Primeval Forest	Podlasie	Upland Part
Bolesławiec	=	8	Lower Silesia	Lower Silesia	Sudetian Foothills
Brzeg	=	8	Lower Silesia	Lower Silesia	
Dzierżoniów	=	8	Lower Silesia	Lower Silesia	Sudetian Foothills
Krapkowice	=	8	Lower Silesia	Lower Silesia	
Legnica	=	8	Lower Silesia	Lower Silesia	
Lubin	=	8	Lower Silesia	Lower Silesia	
Namysłów	=	8	Lower Silesia	Lower Silesia	
Nysa	=	8	Lower Silesia	Lower Silesia	
Oława	=	8	Lower Silesia	Lower Silesia	
Opole	=	8	Lower Silesia	Lower Silesia	
Polkowice	=	8	Lower Silesia	Lower Silesia	
Strzelin	=	8	Lower Silesia	Lower Silesia	
Środa Śląska	=	8	Lower Silesia	Lower Silesia	
Świdnica	=	8	Lower Silesia	Lower Silesia	Sudetian Foothills
Wołów	=	8	Lower Silesia	Lower Silesia	
Wrocław	=	8	Lower Silesia	Lower Silesia	

Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Ząbkowice Śląskie	=	8	Lower Silesia	Lower Silesia	Sudetian Foothills
Zgorzelec	=	8	Lower Silesia	Lower Silesia	
Złotoryja	=	8	Lower Silesia	Lower Silesia	Sudetian Foothills
Kępno	¥	8a	Trzebnica Hills	Wielkopolska-Lubusz	Lowland Part
Oleśnica	¥	8a	Trzebnica Hills	Lower Silesia	
Trzebnica	¥	8a	Trzebnica Hills	Lower Silesia	
Wieruszów	¥	8a	Trzebnica Hills	Wielkopolska-Lubusz	Lowland Part
Będzin	=	9	Upper Silesia	Upper Silesia	Upland Part
Bytom	=	9	Upper Silesia	Upper Silesia	Upland Part
Chorzów	=	9	Upper Silesia	Upper Silesia	Upland Part
Chrzanów	≠	9	Upper Silesia	Kraków-Wieluń Upland	
Dąbrowa Górnicza	=	9	Upper Silesia	Upper Silesia	Upland Part
Gliwice	=	9	Upper Silesia	Upper Silesia	Upland Part
Jastrzębie Zdrój	=	9	Upper Silesia	Upper Silesia	Upland Part
Jaworzno	=	9	Upper Silesia	Upper Silesia	Upland Part
Katowice	=	9	Upper Silesia	Upper Silesia	Upland Part
Kędzierzyn-Koźle	=	9	Upper Silesia	Upper Silesia	Lowland Part
Kluczbork	=	9	Upper Silesia	Upper Silesia	Lowland Part
Lubliniec	=	9	Upper Silesia	Upper Silesia	Lowland Part
Mikołów	=	9	Upper Silesia	Upper Silesia	Upland Part
Mysłowice	=	9	Upper Silesia	Upper Silesia	Upland Part
Myszków	¥	9	Upper Silesia	Kraków-Wieluń Upland	
Olesno	≠	9	Upper Silesia	Kraków-Wieluń Upland	
Oświęcim	≠	9	Upper Silesia	Northern Subcarpathia	
Pszczyna	¥	9	Upper Silesia	Upper Silesia	Subcarpathian Part
Racibórz	=	9	Upper Silesia	Upper Silesia	Lowland Part
Ruda Śląska	=	9	Upper Silesia	Upper Silesia	Upland Part
Rybnik	=	9	Upper Silesia	Upper Silesia	Upland Part
Siemianowice Śląskie	=	9	Upper Silesia	Upper Silesia	Upland Part
Sosnowiec	=	9	Upper Silesia	Upper Silesia	Upland Part
Strzelce Opolskie	=	9	Upper Silesia	Upper Silesia	Lowland Part
Świętochłowice	=	9	Upper Silesia	Upper Silesia	Upland Part
Tarnowskie Góry	=	9	Upper Silesia	Upper Silesia	Upland Part
Tychy	≠	9	Upper Silesia	Upper Silesia	Subcarpathian Part
Wodzisław Śląski	=	9	Upper Silesia	Upper Silesia	Upland Part
Zabrze	=	9	Upper Silesia	Upper Silesia	Upland Part
Zawiercie	¥	9	Upper Silesia	Kraków-Wieluń Upland	
Żory	=	9	Upper Silesia	Upper Silesia	Upland Part
Częstochowa	\approx	10	Kraków-Wieluń Upland	Kraków-Wieluń Upland	

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Provincial capitals/	Status	KFP ID	KFP region	New unit	New subunit
Kłobuck	≈	10	Kraków-Wieluń Upland	Kraków-Wieluń Upland	
Kraków	≠	10	Kraków-Wieluń Upland	Northern Subcarpathia	
Olkusz	~	10	Kraków-Wieluń Upland	Kraków-Wieluń Upland	
Wieluń	≈	10	Kraków-Wieluń Upland	Kraków-Wieluń Upland	
Bełchatów	¥	11	Małopolska Upland	Mazovia	Southern Part
Białobrzegi	, ≠	11	Małopolska Upland	Mazovia	Central Part
Brzeziny	<i>≠</i>	11	Małopolska Upland	Mazovia	Southern Part
Busko Zdrój	=	11	Małopolska Upland	Małopolska Upland	
Jedrzejów	=	11	Małopolska Upland	Małopolska Upland	
Kazimierza Wielka	=	11	Małopolska Upland	Małopolska Upland	
Końskie	=	11	Małopolska Upland	Małopolska Upland	
Lipsko	¥	11	Małopolska Upland	Mazovia	Southern Part
Łódź	¥	11	Małopolska Upland	Wielkopolska-Lubusz	Lowland Part
Miechów	=	11	Małopolska Upland	Małopolska Upland	
Opoczno	=	11	Małopolska Upland	Małopolska Upland	
Ostrowiec					
Świętokrzyski	=	11	Małopolska Upland	Małopolska Upland	
Pabianice	¥	11	Małopolska Upland	Wielkopolska-Lubusz	Lowland Part
Pajęczno	¥	11	Małopolska Upland	Kraków-Wieluń Upland	
Pińczów	=	11	Małopolska Upland	Małopolska Upland	
Piotrków	-4	11	Malanalska Unland	Mazovia	Southorn Dort
Trybunalski	+	11	Maiopoiska Opialiu	Iviazovia	Southern Fait
Proszowice	=	11	Małopolska Upland	Małopolska Upland	
Przysucha	¥	11	Małopolska Upland	Mazovia	Southern Part
Radom	¥	11	Małopolska Upland	Mazovia	Southern Part
Radomsko	=	11	Małopolska Upland	Małopolska Upland	
Sandomierz	¥	11	Małopolska Upland	Northern Subcarpathia	Sandomierz Basin
Skarżysko- Kamienna	=	11	Małopolska Upland	Małopolska Upland	
Starachowice	=	11	Małonolska Unland	Małopolska Upland	
Staszów	=	11	Małopolska Upland	Małopolska Upland	
Szydłowiec	=	11	Małopolska Upland	Małopolska Upland	
Tomaszów					
Mazowiecki	¥	11	Małopolska Upland	Mazovia	Southern Part
Włoszczowa	=	11	Małopolska Upland	Małopolska Upland	
Zgierz	¥	11	Małopolska Upland	Wielkopolska-Lubusz	Lowland Part
Zwoleń	¥	11	Małopolska Upland	Mazovia	Southern Part
Kielce	>=	11a	Świętokrzyskie Mts.	Małopolska Upland	Świętokrzyskie Mts.
Opatów	¥	11a	Świętokrzyskie Mts.	Małopolska Upland	
Chełm	¥	12	Lublin Upland	Polesie	
Hrubieszów	¥	12	Lublin Upland	Volhynian Upland	

Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Janów Lubelski	¥	12	Lublin Upland	Northern Subcarpathia	Sandomierz Basin
Krasnystaw	¥	12	Lublin Upland	Polesie	
Kraśnik	=	12	Lublin Upland	Lublin Upland	
Lubartów	¥	12	Lublin Upland	Podlasie	Lowland Part
Lublin	=	12	Lublin Upland	Lublin Upland	
Łęczna	=	12	Lublin Upland	Lublin Upland	
Opole Lubelskie	=	12	Lublin Upland	Lublin Upland	
Puławy	=	12	Lublin Upland	Lublin Upland	
Świdnik	=	12	Lublin Upland	Lublin Upland	
Tomaszów Lubelski	=	13	Roztocze	Roztocze	
Zamość	¥	13	Roztocze	Lublin Upland	
Biłgoraj	× =	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Dąbrowa Tarnowska	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Dębica	¥	14	Sandomierz Basin	Beskid Mts. and Foothills	
Jarosław	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Kolbuszowa	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Leżajsk	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Lubaczów	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Łańcut	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Mielec	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Nisko	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Przeworsk	~=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Ropczyce	¥	14	Sandomierz Basin	Beskid Mts. and Foothills	
Rzeszów	>	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Stalowa Wola	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Tarnobrzeg	>=	14	Sandomierz Basin	Northern Subcarpathia	Sandomierz Basin
Tarnów	¥	14	Sandomierz Basin	Beskid Mts. and Foothills	
Jawor	¥	15	Western Sudetes	Lower Silesia	
Jelenia Góra	>=	15	Western Sudetes	Sudety Mts.	Western Sudety Mts.

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Provincial capitals/ county towns	Status	KFP ID	KFP region	New unit	New subunit
Kamienna Góra	и	15	Western Sudetes	Sudety Mts.	Central Sudety Mts.
Lubań	и	15	Western Sudetes	Lower Silesia	Sudetian Foothills
Lwówek Śląski	и	15	Western Sudetes	Lower Silesia	Sudetian Foothills
Wałbrzych	ĸ	15	Western Sudetes	Sudety Mts.	Central Sudety Mts.
Głubczyce	¥	16	Eastern Sudetes	Upper Silesia	Lowland Part
Kłodzko	и	16	Eastern Sudetes	Sudety Mts.	Central Sudety Mts.
Prudnik	¥	16	Eastern Sudetes	Upper Silesia	Lowland Part
Bielsko-Biała	*	17	Western Beskid Mts.	Beskid Mts. and Foothills	
Bochnia	*	17	Western Beskid Mts.	Beskid Mts. and Foothills	
Brzesko	*	17	Western Beskid Mts.	Beskid Mts. and Foothills	
Cieszyn	ĸ	17	Western Beskid Mts.	Beskid Mts. and Foothills	
Limanowa	>=	17	Western Beskid Mts.	Beskid Mts. and Foothills	Western Beskid Mts.
Myślenice	ы	17	Western Beskid Mts.	Beskid Mts. and Foothills	
Nowy Sącz	>=	17	Western Beskid Mts.	Beskid Mts. and Foothills	Western Beskid Mts.
Sucha Beskidzka	>=	17	Western Beskid Mts.	Beskid Mts. and Foothills	Western Beskid Mts.
Wadowice	и	17	Western Beskid Mts.	Beskid Mts. and Foothills	
Wieliczka	и	17	Western Beskid Mts.	Beskid Mts. and Foothills	
Żywiec	>=	17	Western Beskid Mts.	Beskid Mts. and Foothills	Western Beskid Mts.
Nowy Targ	и	17a	Nowy Targ Basin	Orawa-Podhale	Orawa-Nowy Targ Basin
Zakopane	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	17a	Nowy Targ Basin	Orawa-Podhale	
Brzozów	и	18	Eastern Beskid Mts.	Beskid Mts. and Foothills	
Gorlice	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	18	Eastern Beskid Mts.	Beskid Mts. and Foothills	
Jasło	ы	18	Eastern Beskid Mts.	Beskid Mts. and Foothills	
Krosno	ы	18	Eastern Beskid Mts.	Beskid Mts. and Foothills	
Lesko	ĸ	18	Eastern Beskid Mts.	Beskid Mts. and Foothills	
Przemyśl	¥	18	Eastern Beskid Mts.	Northern Subcarpathia	Sandomierz Basin
Sanok	*	18	Eastern Beskid Mts.	Beskid Mts. and Foothills	
Strzyżów	*	18	Eastern Beskid Mts.	Beskid Mts. and Foothills	
Ustrzyki Dolne	ĸ	18	Eastern Beskid Mts.	Eastern Carpathians	

Appendix II.

Lists of UTM squares contained (i.e. not crossed by the borders) in the units of the proposed new division, grouped by their spatial relation to the corresponding KFP regions (see also fig. 6). They may be useful for checking whether a UTM square lies completely within a unit of the new division and how it is related to the KFP regionalization.

Common: squares contained in both the new units and the corresponding KFP regions, common to both divisions; KFP borderline: squares contained in the new units, crossed by the borders of the KFP regions; Not matching: squares contained in the new units, not crossed by the borders of KFP regions and not matching the corresponding KFP regions.

Common

BA: 95, 96, 97; **BB**: 84, 93, 94; **BC**: 90, 91, 92, 93, 94, 95, 96, 97, 98, 99; **BD**: 90, 91, 92, 93, 94, 95, 96, 97, 98; CA: 05, 06, 07, 08, 09, 14, 15, 16, 17, 18, 19, 24, 25, 26, 27, 28, 29, 34, 35, 36, 37, 38, 39, 41, 44, 45, 46, 47, 48, 49, 50, 51, 54, 55, 56, 57, 58, 59, 60, 61, 66, 67, 68, 70, 71, 76, 77, 78, 80, 81, 87, 88, 90, 91, 92; CB: 00, 02, 03, 10, 11, 20, 30, 36, 40, 54, 59, 63, 72, 81, 85, 94, 95, 96; CC: 01, 02, 03, 04, 05, 06, 07, 08, 09, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 65, 66, 68, 69, 79; **CD**: 00, 01, 02, 03, 04, 05, 06, 07, 08, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 50, 51, 52, 53, 54, 55, 59, 60, 61, 62, 68, 69, 70, 71, 72, 77, 78, 79, 81, 82, 86, 87, 88, 89, 95, 96, 97, 98, 99; CE: 01, 02, 03, 04, 05, 06, 07, 08, 09, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 43, 44, 45, 46, 47, 48, 49, 50, 56, 60, 70, 80, 81, 85, 90, 91, 92, 93, 94, 95; CF: 00, 01, 02, 03, 07, 10, 11, 12, 13, 14, 20, 21, 22, 23, 24, 30, 31, 71; CV: 59, 68, 69, 79; **DA**: 00, 01, 02, 05, 06, 07, 08, 09, 10, 11, 12, 16, 20, 21, 22, 30, 31, 37, 38, 39, 40, 41, 46, 47, 48, 49, 50, 51, 52, 56, 57, 58, 59, 60, 61, 62, 67, 68, 69, 70, 71, 72, 78, 79, 80, 85, 88, 89, 95, 96, 99; **DB**: 03, 04, 05, 06, 12, 13, 14, 15, 16, 21, 22, 23, 24, 25, 26, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 58, 60, 61, 66, 67, 68, 70, 71, 73, 76, 77, 80, 81, 83, 86, 87, 90, 91, 93, 95, 96, 97; **D**C: 07, 08, 09, 15, 16, 17, 18, 19, 25, 26, 27, 28, 29, 35, 36, 37, 38, 39, 44, 45, 46, 47, 48, 49, 54, 55, 56, 57, 58, 59, 64, 65, 66, 67, 68, 69, 74, 75, 76, 77, 78, 79, 83, 84, 85, 86, 87, 88, 89, 94, 95, 96, 97, 98, 99; DD: 07, 08, 09, 19, 20, 23, 30, 31, 32, 33, 34, 40, 41, 42, 43, 44, 50, 51, 52, 53, 54, 55, 60, 61, 62, 63, 64, 65, 70, 71, 72, 73, 74, 75, 76, 80, 81, 82, 83, 84, 85, 86, 90, 91, 92, 93, 94, 95, 96, 97; **DE**: 00, 01, 02, 03, 04, 05, 06, 07, 10, 11, 12, 13, 14, 15, 16, 17, 21, 22, 23, 24, 25, 26, 27, 32, 33, 34, 35, 36, 37, 43, 44, 45, 46, 47, 53, 54, 55, 56, 57, 58, 62, 63, 64, 65, 66, 67, 68, 72, 73, 74, 75, 76, 77, 78, 82, 83, 84, 85, 86, 87, 88, 89, 92, 93, 94, 95, 96, 97, 98; DV: 26, 27, 29, 39, 49, 59, 68, 69, 78, 79, 88, 89, 97, 98; EA: 00, 01, 02, 05, 06, 09, 10, 11, 12, 15, 16, 19, 20, 21, 22, 25, 26, 27, 30, 31, 32, 33, 36, 37, 40, 41, 42, 43, 46, 47, 48, 50, 51, 52, 55, 56, 57, 58, 59, 60, 61, 62, 65, 66, 67, 68, 69, 70, 71, 72, 75, 76, 77, 78, 79, 80, 81, 82, 83, 85, 86, 87, 88, 89, 90, 91, 92, 95, 96, 97, 98, 99; EB: 00, 01, 03, 05, 06, 10, 11, 15, 20, 21, 24, 31, 34, 42, 43, 44, 60, 61, 64, 65, 66, 67, 70, 73, 74, 75, 76, 77, 78, 80, 83, 84, 85, 86, 87, 88, 90, 95, 96, 97; EC: 04, 05, 06, 07, 08, 09, 13, 14, 15, 16, 17, 18, 19, 22, 23, 24, 25, 26, 27, 28, 29, 31, 34, 35, 36, 37, 38, 39, 41, 46, 67, 68, 69, 75, 76, 77, 78, 79, 85, 86, 87, 88, 89, 95, 96, 97, 98, 99; ED: 00, 01, 02, 03, 04, 05, 10, 11, 12, 13, 14, 15, 20, 21, 22, 23, 24, 25, 30, 31, 32, 33, 34, 35, 36, 41, 42, 43, 44, 45, 46, 47, 52, 53, 54, 55, 56, 57, 58, 60, 67, 68, 69, 70, 71, 80, 81, 82, 83, 90, 91, 92, 93, 94, 95; EE: 03, 04, 05, 06, 07, 13, 14, 15, 16, 17, 23,

24, 25, 26, 27, 33, 34, 35, 36, 37, 38, 39, 43, 44, 45, 46, 47, 48, 49, 54, 55, 56, 57, 58, 59, 64, 65, 66, 67, 68, 69, 74, 75, 76, 77, 78, 79, 85, 86, 87, 88, 89, 95, 96, 97, 98, 99; EF: 40, 50, 51, 60, 61, 70, 71, 80, 81, 90, 91; EV: 19, 28, 29, 38, 39, 48, 49, 58, 59, 68, 69, 77, 78, 79, 89, 95, 96; FA: 00, 01, 05, 06, 07, 08, 09, 11, 15, 16, 17, 18, 19, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 44, 45, 46, 47, 55, 56, 69; FB: 00, 05, 06, 07, 14, 15, 16, 17, 24, 25, 26, 27, 34, 35, 50, 64, 65, 74, 83; FC: 04, 05, 06, 07, 08, 09, 17, 18, 19, 27, 28, 29, 37, 38, 39, 47; FD: 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 52, 53, 54, 55, 56, 57, 58, 59, 63, 66, 67, 68, 69, 77, 78, 79, 84, 89; FE: 00, 06, 07, 08, 09, 10, 11, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31, 32, 33, 37, 38, 39, 40, 41, 42, 43, 47, 48, 49, 50, 51, 52, 53, 54, 57, 58, 59, 60, 61, 62, 63, 64, 70, 71; FF: 00, 01, 10, 11, 20, 21, 30, 40; FV: 05, 06, 14, 15, 16; VT: 89, 95, 96, 97, 98, 99; VU: 56, 65, 66, 67, 75, 76, 80, 81, 82, 85, 86, 90, 91, 92, 96; VV: 85, 86, 97; WS: 18, 28, 38, 39, 48, 53, 57, 58, 62, 63, 67, 68, 72, 77, 78, 79, 87, 88, 89, 96, 97, 98, 99; WT: 05, 06, 07, 08, 09, 15, 16, 17, 18, 19, 25, 26, 27, 28, 29, 35, 36, 37, 38, 39, 45, 46, 47, 48, 49, 55, 56, 57, 58, 59, 65, 66, 67, 68, 69, 70, 74, 75, 76, 77, 78, 79, 84, 85, 86, 87, 88, 89, 93, 94, 95, 96, 97, 98, 99; WU: 00, 01, 02, 06, 07, 10, 11, 12, 13, 16, 20, 21, 22, 23, 26, 27, 30, 31, 32, 33, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 57, 58, 59, 60, 61, 62, 63, 64, 65, 68, 69, 70, 71, 72, 73, 74, 75, 78, 79, 80, 81, 82, 83, 84, 85, 86, 88, 89, 90, 91, 92, 93, 94, 95, 96, 99; WV: 20, 21, 22, 23, 29, 30, 31, 32, 33, 34, 40, 41, 42, 43, 44, 45, 50, 51, 52, 53, 54, 55, 56, 60, 61, 62, 63, 64, 65, 70, 71, 72, 73, 74, 75, 80, 81, 82, 83, 84, 85, 90, 91, 92, 93, 94, 95, 96, 97, 98; **XA**: 20, 30, 31, 40, 41, 45, 50, 51, 52, 60, 61, 62, 66, 70, 71, 72, 73, 80, 81, 82, 83, 90, 91, 92, 93; XR: 08, 09, 27, 28, 49, 59, 69, 79; XS: 03, 04, 05, 06, 07, 08, 09, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 30, 31, 32, 33, 34, 35, 36, 40, 41, 42, 43, 44, 45, 46, 50, 51, 52, 53, 54, 55, 56, 60, 61, 62, 63, 64, 65, 66, 70, 71, 72, 73, 74, 75, 76, 80, 81, 82, 85, 86, 90, 91, 92; **XT**: 03, 04, 05, 06, 07, 08, 09, 12, 13, 14, 15, 16, 17, 18, 19, 23, 24, 25, 26, 27, 28, 29, 33, 34, 35, 36, 37, 38, 39, 42, 43, 44, 45, 46, 47, 48, 49, 52, 53, 54, 55, 56, 57, 58, 59, 62, 63, 64, 65, 66, 67, 68, 69, 72, 73, 74, 75, 76, 77, 78, 79, 83, 84, 85, 86, 87, 88, 89, 93, 94, 95, 96, 97, 98, 99; **XU**: 00, 01, 02, 03, 04, 05, 06, 09, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 50, 51, 52, 53, 54, 55, 56, 57, 60, 61, 62, 63, 64, 65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 82, 83, 84, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96, 97, 98; XV: 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 81, 82, 83, 84, 85, 86, 87, 88, 89, 91, 92, 93, 94, 95, 96, 97, 98, 99; YS: 00, 01, 14; YT: 03, 04, 05, 06, 07, 08, 09; YU: 00, 01, 02, 03, 04, 05, 06, 07, 08

KFP borderline

BA: 86; **BA:** 87, 88, 98, 99; **BB:** 83, 90, 91, 92, 97, 99; **BE:** 90; **CA:** 73; **CB:** 01, 07, 09, 15, 17, 18, 19, 25, 28, 29, 34, 35, 39, 43, 44, 45, 48, 49, 52, 53, 58, 61, 62, 68, 69, 70, 71, 75, 79, 80, 84, 93; **CC:** 00, 10, 70, 71, 72, 73, 74, 96, 97, 98, 99; **CD:** 39, 49, 58, 67, 75, 76, 84, 85, 94; **CE:** 00, 30, 40, 61, 62, 71, 72, 73, 74, 75, 76, 82, 83, 84, 86, 96, 97, 99; **CF:** 06, 16, 26, 32, 51, 60, 61, 70, 80, 90; **DA:** 28, 29, 35, 36, 54, 64, 74, 75, 81, 82, 84, 86, 90, 91, 92; **DB:** 01, 02, 11, 20, 62, 63, 64, 65, 72, 75, 82, 84, 85, 92, 94; **DC:** 04, 05, 06, 14, 24, 33, 34, 43, 53, 63, 72, 73, 82, 92, 93; **DD:** 03, 24, 35, 36, 45, 46, 56, 57, 66, 67, 77, 78, 87, 88, 98; **DF:** 00, 11, 22; **DV:** 09, 19, 37, 47, 99; **EA:** 07, 14, 17, 38, 49; **EB:** 02, 04, 12, 13, 14, 19, 22, 23, 29, 32, 33, 39, 49, 50, 63, 68, 71, 81; **EC:** 02, 03, 10, 11, 12, 20,

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21, 30, 40, 50, 58, 59, 64, 65, 66, 74, 80, 84, 90, 93, 94; **ED**: 06, 07, 08, 16, 26, 27, 37, 38, 48, 49, 59, 63, 84, 85, 86, 96, 97, 98, 99; **EE**: 71, 80, 81, 82, 90, 91; **EV**: 08, 09, 18, 88; **FA**: 04, 13, 14, 23, 39, 48, 68, 77, 99; **FB**: 10, 33, 43, 53, 63, 73, 79, 80, 81, 90; **FC**: 00, 02, 03, 10, 30, 31, 40, 41, 50, 60, 70; **FD**: 64, 65, 74, 75, 76, 86, 87, 88; **FE**: 01, 02, 12, 13, 23, 24, 34, 44, 55; **FV**: 07, 17; **VU**: 84, 94, 95; **VV**: 63, 83, 84, 94, 95, 96; **WA**: 60, 70, 80, 81, 91, 92; **WS**: 09, 16, 17, 19, 26, 27, 29, 36, 37, 46, 47, 49, 56, 59, 65, 66, 69, 75, 76, 84, 85, 86, 93, 94, 95; **WT**: 10, 20, 30, 40, 50, 60, 61, 71, 80, 81, 90, 91; **WU**: 05, 15, 25, 67, 98; **WV**: 05, 06, 07, 08, 18, 28, 38, 39, 49, 59, 69; **XA**: 02, 03, 13, 23, 24, 34, 44, 54, 55, 65, 75, 76, 86, 96; **XR**: 17, 18, 19; **XS**: 27, 28, 29, 37, 39, 47, 49, 57, 59, 67, 69, 77, 79, 87, 89, 96; **XT**: 00, 10, 20, 40, 60, 70, 80, 90; **XU**: 39, 49; **XV**: 80, 90; **YR**: 05, 06, 07, 15; **YS**: 04, 13; **YV**: 00

Not matching

BB: 98; **CA**: 74; **CB**: 08, 23, 24, 32, 33, 38, 42, 98; **CC**: 84, 87, 91, 92; **CD**: 74; **CE**: 63, 64, 69, 77, 79, 87, 89; **DB**: 08, 09, 18, 19, 74; **DC**: 00, 01, 02, 03, 10, 11, 12, 13, 20, 21, 22, 23, 31, 32, 41, 42, 51, 52, 60, 61, 62, 70, 71, 80, 81, 90, 91; **DD**: 37, 38, 39, 47, 48, 49, 58, 59, 68, 69, 79, 89, 99; **DE**: 09, 19, 40, 50, 60, 70, 80, 90; **DF**: 10, 20, 21, 30, 31, 32, 40, 41, 50, 51, 60, 61, 71, 81, 91; **EB**: 09, 18, 27, 28, 36, 37, 38, 46, 47, 48; **EC**: 00, 01, 53, 54, 62, 63, 72, 73, 81, 82, 83, 91, 92; **ED**: 09, 17, 18, 19, 28, 29, 39, 75, 87, 89; **EE**: 00, 10, 11, 20, 21, 30, 31, 40, 41, 61, 62, 72, 92, 93; **EF**: 01, 10, 11; **FA**: 89; **FB**: 09, 19, 42, 47, 48, 49, 52, 57, 58, 59, 67, 68, 69, 77, 78, 86, 87, 91; **FC**: 01, 23, 24, 25, 32, 33, 34, 35, 42, 43, 44, 45, 51, 52, 53, 54, 55, 61, 62, 63, 64, 65, 66, 76; **FD**: 85; **FE**: 03, 14; **FV**: 08; **GA**: 09, 19; **GB**: 00, 01, 10, 11; **KS**: 80, 81; **VT**: 91, 92, 93; **VU**: 79, 88, 89, 99; **VV**: 62, 70, 71, 72, 80, 81, 82, 90, 91, 92, 93; **WS**: 25, 35; **WT**: 00, 01, 02, 03, 11, 12, 13, 21, 22, 23, 31, 32, 33, 41, 42, 43, 51, 52, 53, 62, 72; **WU**: 09; **WV**: 00, 01, 02, 03, 04, 15, 16, 17, 26, 27, 37, 48, 58, 68; **XA**: 12, 33, 95; **XR**: 98; **XS**: 38, 48, 58, 68, 78, 88; **XT**: 30, 50, 91; **YR**: 08, 16, 17, 18; **YS**: 08

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