

PIX European Recovered Paper Price Indices



Methodology and specifications – April 2024

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Mission statement

Fastmarkets is a leading commodity price reporting agency (PRA) covering the metals, mining, minerals, and forest products industries, and agricultural products and biofuels. Our products include Metal Bulletin, American Metal Market, RISI, FOEX, Random Lengths, AgriCensus, EnergyCensus and Industrial Minerals. For more than 100 years we have been providing commodities price reporting services for use by market participants in their day-to-day commercial activities. These services include assessments and indices of commodity prices as well as news, research and commentary on the underlying markets.

Our mission is to meet the market's data requirements honestly and independently, acting with integrity and care to ensure that the trust and confidence placed in the reliability of our pricing methodologies is maintained. We do not have a vested interest in the markets on which we report.

Introduction

Fastmarkets FOEX, in Helsinki, Finland, operating under the Finnish law, produces trademarked PIX price indices for selected pulp, paper, recovered paper and packaging grades as well as for wood-based biomass and bioenergy products like pellets and wood. The first PIX index was launched in September 1996. Fastmarkets FOEX owns the trademark rights to PIX Index.

Fastmarkets' staff are required to abide by a code of conduct and clear pricing procedures during their market reporting and pricing activities. Fastmarkets is completely independent and has no vested commercial interest in any of the markets it prices.

We are the world's largest dedicated forest products price reporting team. We have offices in New York, Boston, San Francisco, Eugene, Charlottesville, Atlanta, Brussels, Helsinki, Beijing, Shanghai, Singapore, Sofia and Sao Paulo.

The aim of this document is to provide a clear overview of Fastmarkets methodology and specifications for the PIX European recovered paper Indices. If you have any questions, please contact Fastmarkets FOEX director Tytti Inkinen, tytti.inkinen@fastmarkets.com

Price discovery process and methodology

1.1 Methodology Rationale

Fastmarkets FOEX produces independent, fair and representative price indices for European recovered paper (RCP) or paper for recycling (PFR) on a weekly basis. Fastmarkets FOEX's rationale is to adopt and develop the price discovery process and the methodology described in the present guide to produce indices that are a consistent and representative indicator of value of the market to which they relate for the trading period they measure, as well as for the change in prices from one week to the next.

These benchmark indices are calculated and confirmed by Fastmarkets FOEX based on confidential price information of actual, physical trades, collected on a weekly basis by email from companies trading in paper for recycling. It represents the net price agreed on contract business for paper for recycling used for paper or paperboard production. The method of index calculation is fixed. The index has a large market coverage and a stable group of price providers.

The time period, or window, identified to assess a market (e.g., daily, weekly, monthly) is determined by Fastmarkets FOEX after considering the number of data points that Fastmarkets FOEX can reasonably expect to collect on a consistent basis over the selected period to support the price assessment process.

Fastmarkets FOEX publishes weekly pricing rationales to explain the index calculation. These notes explain, for instance, whether any data has been excluded and why, information on the data collected and whether fall-back procedures have been applied.

1.2 Data collection criteria

Fastmarkets FOEX staff aim to canvas a broad sample of market participants specifically involved in the buying and selling of the paper for recycling grade of interest, with a good representation of both sides of the market. Generators, traders and consumers qualify as price providers.

Price data is collected weekly from price providers, typically by email. Possibilities to use other alternative ways will be followed-up whenever deemed useful.

Reported price data will be stored at Fastmarkets FOEX for a period of seven years.

Fastmarkets FOEX has the discretionary right to decide whether to include price data received after noon on the working day preceding publication in the index calculation that week.

Price providers designate a point of contact and where possible a deputy for the price reporting task. Each price provider shall report their prices each week or provide a note of how long the last reported price is valid, or report "no transactions" if a provider has no eligible transactions in a given week.

Price providers agree to report their prices according to the methodology described in this document and based on all transactions meeting the specifications and to consult with Fastmarkets FOEX if they have any doubts as to the validity of a price to be reported.

Fastmarkets FOEX encourages organizations to submit all their pricing data, especially all the concluded transactions. Fastmarkets FOEX welcomes organizations to submit transaction data from authorized back-office functions.

Company-specific data received from the price providers is accessible only to Fastmarkets personnel involved with PIX in pricing, technical or compliance roles.

Fastmarkets FOEX commits to compile the price data, to calculate the index values and to publish the index values in accordance with the rules and specifications set forth in this document.

1.3 What price data providers submit

Data providers submit prices reflecting all eligible transactions, to the extent possible with reasonable efforts, taking into account the practical tasks in the sales administrative work to collect all required transactions. “Transaction” is defined as follows:

1. Final agreement on price for delivery of a specific quantity during the current month. An “eligible transaction” is a transaction that meets the specifications outlined in the Price Specifications section below.

Providers have the option to submit prices in one of three ways:

1. Average price per market (country)
2. Transaction price per supplier/customer
3. Single weighted average price: Providers submit a single price reflecting the weighted average price of all eligible transactions.

This weighted average can be calculated based on actual monthly volumes or from an annual estimate. The way each data submitter reports prices is mutually agreed with Fastmarkets FOEX before they become formal contributors to the PIX indices. The method should be consistently used to the extent possible with reasonable efforts.

Transactions with prices fixed in advance for a longer period than three months do not count as eligible transactions and shall not be reported to the index.

If the pricing structure includes a cap and floor, the price shall be reported only as long as it remains between the cap and floor. After the price has hit either of the limits, the price within the cap and floor should not be reported.

1.4 Price specifications and reference units

Fastmarkets FOEX has clear specifications for all the price points that it covers. All the reference units, such as currency and volume, are in line with recognized paper for recycling markets trading conventions.

Fastmarkets FOEX specifications detail the material's characteristics or quality, location, incoterm, payment terms and the minimum volume accepted. These specifications are determined in consultation with market participants and following industry convention. Fastmarkets FOEX staff ensure that the information they receive matches these specifications.

All Fastmarkets FOEX pulp and paper price specifications define the minimum lot size accepted.

1.5 Criteria to discard pricing data

Transactions are against contract-based business or other recurring business with similar pricing terms. Prices reflected only include those with a final agreement for the month, i.e. without a retroactive adjustment clause.

Specifically excluded are:

- Integrated sales: deliveries between affiliated parties.
- Indexed-price transactions: transactions whose prices are, according to the supply contract, tied to the PIX Recovered Paper Europe/Germany Price Index.

Some contracts stipulate that prices are negotiated between buyer and seller but that PIX or another index can be used to settle prices if the buyer and seller can't agree on a price. Transactions under these contracts are not considered indexed and thus shall be submitted to the index.

1.6 Data validation

Fastmarkets FOEX reviews the incoming price data in order to check its consistency with the reporting rules. If there are any doubts or questions about the price data, Fastmarkets FOEX contacts the price provider.

1.7 Weighting of Data

Weighting between price providers is achieved by assigning more price points to larger buyers/sellers than to smaller ones. The number of price points assigned to each provider is scaled by the annual volume of sales or purchases in each index grade (Mixed 1.02, OCC 1.04, ONP/OMG 1.11, SOP, Multiprint). Each price provider's weight is kept constant through the year, if no major changes occur in production capacity or purchasing/sales volumes. Volumes are checked in January to define the weighting for that year.

While input to the index is generally evenly split between buyers and sellers, the share can vary from week to week. To eliminate any volatility caused by a shift in the share of the buyer/seller data, Fastmarkets FOEX ensures that buyer and seller data each represent 50% of the index (not applicable to PIX SOP and PIX Multiprint).

The weighting of any single data provider's data is limited so that it doesn't dominate the index. No single data provider's data will be weighted so that it contributes more than 25% of total number of prices included in the index calculation.

The weighting scales for OCC 1.04, ONP/OMG 1.11, Mixed 1.02, SOP, Multiprint (separate scales for sellers and buyers for Europe and Germany), based on the total annual volumes of the previous calendar year are shown in Appendices.

1.8 Aggregation of weighted average prices

If data providers submit a single weighted average price (see Section 1.3 above), that price point is included in the week's collected price points multiple times, according to the number of price points the data provider is allowed. For instance, if a seller of OCC is allowed 5 price points and submits a single weighted average price of €X in a given week, then €X is included 5 times in that week's collected price points.

1.9 Calculation procedure

The index value is the arithmetic average of the price points included. The highest and lowest 10 % of the number of price points are removed before calculating the PIX index values. This is done to eliminate clerical errors in the price reporting and to dampen any possible attempts to manipulate the PIX index value in one direction or the other.

1.10 Validity time of price points

If a price provider does not report prices in a given month (e.g. a company may not have sales or purchases during that month) Fastmarkets FOEX may use the previous price received, but only for one additional month. From week to week, the monthly price(s) reported will remain unchanged in the index calculation.

1.11 Fall-back procedure

Fastmarkets FOEX does not set a minimum number of price points for calculating the index. In the unlikely event that there are not enough eligible price points in a given week, and the lack of price points is threatening to distort the index development, Fastmarkets FOEX reserves the right to roll forward previous price data beyond the limits mentioned above. In such case, Fastmarkets FOEX will state that because there are an insufficient number of new price points, the previous week's index value will be republished.

1.12 Monthly average prices

The monthly average of any of the PIX indices is calculated by Fastmarkets FOEX as a straight arithmetic average from the weekly PIX index values of the month in question. The average value is published together with the last weekly index value (included in the monthly average).

1.13 Procedure to ensure consistency in the price discovery procedures

All Fastmarkets FOEX price reporters are formally trained in the price discovery process and must abide by a written Code of Conduct and pricing procedures.

On a regular basis, Fastmarkets FOEX staff review markets and methodologies to ensure that assessment methodologies and the assessments they produce are appropriate for the market. Fastmarkets FOEX has also committed to conducting one external audit per year of one key index.

Methodology review and consultation process

Fastmarkets' editorial teams carry out a formal review of its methodologies on an annual basis.

The process starts with an open consultation in which feedback is invited from users. Further consultation follows should any material change to the methodology be proposed. Material changes are those that, once implemented, may result in fundamental changes to the published price.

At the end of the consultation process, the editorial teams review any feedback received and decide on whether a change should be made before announcing and explaining that decision to the market via a pricing notice.

The editorial teams may also suggest changes or additions to methodologies on an ad-hoc basis to reflect market developments, in which case they will follow the same process as outlined for formal reviews.

For more details, please refer to Fastmarkets Methodology Review and Change Consultation Process document available on the Fastmarkets website, as well as on divisional websites such as Fastmarkets MB, Fastmarkets RISI or Fastmarkets FOEX.

Queries and complaints

Fastmarkets FOEX encourages engagement from the market on its pricing principles and methodology. The company promotes understanding of its pricing procedures and is committed to responding to requests for further information and clarification on a timely basis.

There are multiple channels for interaction with the pricing team including email and telephone.

If a user has an issue with the published prices, then they may contact the pricing team. In the event that the response is not satisfactory the issue may be escalated to the internal compliance department. For more details refer to Fastmarkets Complaints Handling Policy available on the Fastmarkets FOEX website.

Fastmarkets FOEX takes all queries and complaints seriously and will seek to provide an explanation of the prices wherever possible. It is important to note, however, that input data remain confidential and cannot be provided to third parties.

Price correction policy

Price errors may occasionally happen for reasons that include technical input errors or incorrect application of the methodology. Fastmarkets FOEX will rectify and republish any incorrectly published price as soon as possible; and will send a pricing notice to all subscribers informing them of the change.

No prices will be amended due to the emergence of new data or market activity after the initial publication. Retrospective changes to the published values will only be made in cases of administrative or calculation error leading to a material change in price.

Become a contributor to the price discovery process

Fastmarkets FOEX continually seeks to increase the number of market sources willing to take part in the price discovery process. The main condition Fastmarkets FOEX requires from contributors is for them to be active participants in the market. Fastmarkets FOEX Data Submitter Policy provides guidelines defining the high level of data quality and integrity that Fastmarkets FOEX expects from contributing organization providing pricing data. Market participants that wish to provide pricing data and be part of the price discovery process should first read the Data Submitter Policy available on the Fastmarkets FOEX website.

All data sources are subject to review before their data submitted is fully taken into account in the pricing process. The aim is to make sure that submitters are trustworthy and have sufficient visibility and understanding of the market to be able to provide viable price data.

If you want to become a contributor to Fastmarkets FOEX pricing or have questions or comments about the methodology and price specifications, please contact Fastmarkets FOEX director Tytti Inkinen, tytti.inkinen@fastmarkets.com

Price specifications

Description: **PIX OCC 1.04 dd**

Quantity: min 20 metric tons

Location: Europe

Incoterm: Delivered at buyer's mill or warehouse.

Timing: Orders for delivery during the current month or following month at the latest

Currency: EUR. Prices reported in other currencies are converted to the index currency by FOEX using the previous Friday's ECB exchange rate.

Payment terms: 30 days or other term of payment which is used in the majority of sales/purchases.

Customs and other duties paid, excluding VAT.

Price Type: Net. Prices reflected only include those with a final agreement for the month, i.e. without a retroactive adjustment clause.

Publication: Weekly, on Tuesdays at noon Helsinki time. If Tuesday falls on a public holiday in Finland, the index will be published on the first working day thereafter.

Notes: Terms and definitions according to EN 643 European List of Standard Grades of Paper and Board for Recycling. Prices reflect material that meets the EN 643 grades CEN 1.04.00 Corrugated Paper and Board Packaging, 1.04.01 Ordinary Corrugated Paper and Board and 1.04.02 Corrugated Paper and Board. Used for production of paperboard (containerboard and cartonboard)

Market symbol: FP-RCP-0241

Description: **PIX ONP/OMG 1.11 dd**

Quantity: min 20 metric tons

Location: Europe

Incoterm: Delivered at buyer's mill or warehouse.

Timing: Orders for delivery during the current month or following month at the latest

Unit: Metric ton

Currency: EUR. Prices reported in other currencies are converted to the index currency using the previous Friday's ECB exchange rate.

Payment terms: 30 days or other term of payment which is used in the majority of sales/purchases.

Customs and other duties paid, excluding VAT.

Price Type: Net. Prices reflected only include those with a final agreement for the month, i.e. without a retroactive adjustment clause.

Publication: Weekly, on Tuesdays at noon Helsinki time. If Tuesday falls on a public holiday in Finland, the index will be published on the first working day thereafter.

Notes: Terms and definitions according to EN 643 European List of Standard Grades of Paper and Board for Recycling. Prices reflect material that meets the EN 643 grade CEN 1.11.00 Sorted Graphic Paper for Deinking. Used for production of paper (mainly newsprint, printing & writing and tissue).

Market symbol: FP-RCP-0242

Description: **PIX SOP**

Quantity: min 20 metric tons

Location: Europe

Incoterm: Delivered at buyer's mill or warehouse.

Timing: Orders for delivery during the current month or following month at the latest

Currency: EUR. Prices reported in other currencies are converted to the index currency by FOEX using the ECB exchange rate average for the data month.

Payment terms: 30 days or other term of payment which is used in the majority of sales/purchases.

Customs and other duties paid, excluding VAT.

Price Type: Net. Prices reflected only include those with a final agreement for the month, i.e. without a retroactive adjustment clause.

Publication: Monthly, on 2nd Tuesday of the following month at noon Helsinki time. If Tuesday falls on a public holiday in Finland, the index will be published on the first working day thereafter.

Notes: Terms and definitions according to EN 643 European List of Standard Grades of Paper and Board for Recycling. Prices reflect material that meets the EN 643 grades CEN 2.05.01 Sorted office paper or CEN 2.06.00 Ordinary sorted coloured letters. Used for production of paper and board.

Market symbol: FP-RCP-0318

Description: **PIX Multiprint**

Quantity: min 20 metric tons

Location: Europe

Incoterm: Delivered at buyer's mill or warehouse.

Timing: Orders for delivery during the current month or following month at the latest

Currency: EUR. Prices reported in other currencies are converted to the index currency by FOEX using the ECB exchange rate average for the data month.

Payment terms: 30 days or other term of payment which is used in the majority of sales/purchases.

Customs and other duties paid, excluding VAT.

Price Type: Net. Prices reflected only include those with a final agreement for the month, i.e. without a retroactive adjustment clause.

Publication: Monthly, on 2nd Tuesday of the following month at noon Helsinki time. If Tuesday falls on a public holiday in Finland, the index will be published on the first working day thereafter.

Notes: Terms and definitions according to EN 643 European List of Standard Grades of Paper and Board for Recycling. Prices reflect material that meets the EN 643 grade CEN 3.10.00 Multi printing. CEN 3.10.01 Medium printed multi printing can also be included if compatible in price. Used for production of paper and board.

Market symbol: FP-RCP-0319

Description: **PIX RCP Mixed 1.02 GER**

Quantity: min 20 metric tons

Location: Germany

Incoterm: Delivered at buyer's mill or warehouse.

Timing: Orders for delivery during the current month or following month at the latest

Currency: EUR. Prices reported in other currencies are converted to the index currency by FOEX using the previous Friday's ECB exchange rate.

Payment terms: 30 days or other term of payment which is used in the majority of sales/purchases.

Customs and other duties paid, excluding VAT.

Price Type: Net. Prices reflected only include those with a final agreement for the month, i.e. without a retroactive adjustment clause.

Publication: Monthly, on 2nd Tuesday of the following month at noon Helsinki time. If Tuesday falls on a public holiday in Finland, the index will be published on the first working day thereafter.

Notes: Terms and definitions according to EN 643 European List of Standard Grades of Paper and Board for Recycling. Prices reflect material that meets the EN 643 grade CEN 1.02.00 Mixed Paper and Board. Used for production of paperboard (mainly cartonboard)

Market symbol: FP-RCP-0243

Description: **PIX OCC 1.04 GER**

Quantity: min 20 metric tons

Location: Germany

Incoterm: Delivered at buyer's mill or warehouse.

Timing: Orders for delivery during the current month or following month at the latest

Currency: EUR. Prices reported in other currencies are converted to the index currency by FOEX using the previous Friday's ECB exchange rate.

Payment terms: 30 days or other term of payment which is used in the majority of sales/purchases.

Customs and other duties paid, excluding VAT.

Price Type: Net. Prices reflected only include those with a final agreement for the month, i.e. without a retroactive adjustment clause.

Publication: Monthly, on 2nd Tuesday of the following month at noon Helsinki time. If Tuesday falls on a public holiday in Finland, the index will be published on the first working day thereafter.

Notes: Terms and definitions according to EN 643 European List of Standard Grades of Paper and Board for Recycling. Prices reflect material that meets the EN 643 grades CEN 1.04.00 Corrugated Paper and Board Packaging, CEN 1.04.01 Ordinary Corrugated Paper and Board and CEN 1.04.02 Corrugated Paper and Board Used for production of paperboard (containerboard and cartonboard)

Market symbol: FP-RCP-0244

Description: **PIX ONP/OMG 1.11 GER**

Quantity: min 20 metric tons

Location: Germany

Incoterm: Delivered at buyer's mill or warehouse.

Timing: Orders for delivery during the current month or following month at the latest

Unit: Metric ton

Currency: EUR. Prices reported in other currencies are converted to the index currency using the previous Friday's ECB exchange rate.

Payment terms: 30 days or other term of payment which is used in the majority of sales/purchases.

Customs and other duties paid, excluding VAT.

Price Type: Net. Prices reflected only include those with a final agreement for the month, i.e. without a retroactive adjustment clause.

Publication: Monthly, on 2nd Tuesday of the following month at noon Helsinki time. If Tuesday falls on a public holiday in Finland, the index will be published on the first working day thereafter.

Notes: Terms and definitions according to EN 643 European List of Standard Grades of Paper and Board for Recycling. Prices reflect material that meets the EN 643 grade CEN 1.11.00 Sorted Graphic Paper for Deinking. Used for production of paper (mainly newsprint, printing & writing and tissue).

Market symbol: FP-RCP-0245

Revision History

Changes to methodology and specifications will be tracked here.

April 2024 – Two new European monthly indices added to the methodology.

Following an open consultation, Fastmarkets FOEX extended its PIX Recovered Paper Europe Indices methodology and specifications guidelines to include also the PIX SOP and PIX Multiprint European indices. Introduces the term paper for recycling in this document.

March 2024 – Annual review of the methodology. Following an open consultation, adds 5-digit grade codes according to the EN 643 “European List of Standard Grades of Paper and Board for Recycling”. No material changes were made to the methodology.

September 2023 - Amends wording of 1.2 Data Collection Criteria. Clarifies the accessibility of data at Fastmarkets.

March 2023 – Annual review of the methodology. Following an open consultation, no material changes were made to the methodology. Adds Market symbol.

March 2022 – Annual review of the methodology. Following an open consultation, changes the requirement in 1.3 as follows: Transactions with prices fixed in advance for a longer period than three months do not count as eligible transactions and shall not be reported to the index. No material changes were made to the methodology.

March 2021 – Annual review of the methodology. Following an open consultation, no material changes were made to the methodology. Changes wording of Coverage Note to Pricing Notice.

September 2020 - Updates sections on Methodology Review and Change and Queries and complaints.

March 2020 – Adds a line stating there is no minimum number of price points for index calculation. Changes wording in Price correction policy to match with Fastmarkets policy. Fastmarkets FOEX held an open consultation on its European recovered paper methodology, as a result of which no material changes were deemed necessary.

December 2019 – Adds 25% weighting cap and changes limit for data retention

A 25% cap was added to any one contributor’s weighting in the index. Storage of price data was changed from five to seven years. The methodology guide was changed accordingly.

March 2019 – PIX RCP Germany indices added to the methodology

Fastmarkets FOEX extended its PIX Recovered Paper Indices methodology and specifications guidelines to include also the PIX Recovered Paper Germany indices. The methodologies were not changed materially during this process.

January 2019 – Fastmarkets rebranding

Fastmarkets FOEX revamped methodology and specifications guides, including PIX European recovered paper, in January 2019 as part of a company-wide rebranding. This was done to improve

the consistency of content across all Fastmarkets methodology guides and to give them a common look and feel.

DISCLAIMER - IMPORTANT PLEASE READ CAREFULLY

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Your investment actions should be solely based upon your own decisions and research and appropriate independent advice should be obtained from a suitably qualified independent adviser before any such decision is made.

Appendix 1

PIX Recovered Paper Europe Indices							
Weighting scale since April 2018							
Categories based on annual supply or consumption							
of all OCC / ONP/OMG grades							
OCC 1.04 S E L L E R S				ONP 1.11 S E L L E R S			
Price points				Price points			
over	1 000 000	tons	8	over	700 000	tons	8
up to	1 000 000		7	up to	700 000		7
up to	500 000		6	up to	500 000		6
up to	200 000		5	up to	200 000		5
up to	100 000		4	up to	100 000		4
up to	50 000		3	up to	50 000		3
up to	30 000		2	up to	30 000		2
up to	20 000		1	up to	20 000		1
OCC 1.04 B U Y E R S				ONP 1.11 B U Y E R S			
Price points				Price points			
over	1 000 000	tons	8	over	700 000	tons	8
up to	1 000 000		7	up to	700 000		7
up to	500 000		6	up to	500 000		6
up to	200 000		5	up to	200 000		5
up to	100 000		4	up to	100 000		4
up to	50 000		3	up to	50 000		3

Appendix 2

PIX Recovered Paper Europe Indices									
Weighting scale since March 2024									
Categories based on annual supply or consumption									
of Sorted office paper / Multi printing									
PIX SOP / PIX Multiprint					PIX SOP / PIX Multiprint				
SELLERS			Price points		BUYERS			Price points	
over	100 000	tons	8		over	100 000	tons	8	
up to	100 000		6		up to	100 000		6	
up to	50 000		4		up to	50 000		4	
up to	20 000		3		up to	20 000		3	
up to	5 000		1		up to	5 000		1	

Appendix 3

PIX Recovered Paper Germany Indices													
Weighting scale since March 2019													
Categories based on annual supply or consumption													
of all Mixed / OCC / ONP/OMG grades													
Mixed 1.02	SELLERS			Price points	OCC 1.04	SELLERS			Price points	ONP 1.11	SELLERS		Price points
over	500 000	tons	8	over	500 000	tons	8	over	300 000	tons	8		
up to	500 000		7	up to	500 000		6	up to	300 000		6		
up to	300 000		6	up to	300 000		5	up to	200 000		5		
up to	200 000		5	up to	200 000		4	up to	100 000		4		
up to	100 000		4	up to	100 000		3	up to	50 000		3		
up to	50 000		3	up to	50 000		2	up to	30 000		2		
									20 000		1		
Mixed 1.02	BUYERS			Price points	OCC 1.04	BUYERS			Price points	ONP 1.11	BUYERS		Price points
over	500 000	tons	8	over	500 000	tons	8	over	300 000	tons	8		
up to	500 000		7	up to	500 000		7	up to	300 000		7		
up to	300 000		6	up to	300 000		6	up to	200 000		6		
up to	200 000		5	up to	200 000		5	up to	100 000		5		
up to	100 000		4	up to	100 000		4	up to	50 000		4		
up to	50 000		3	up to	50 000		3	up to	20 000		3		