## SPECIAL DISTRICTS BULLETIN

# And Uniform Compliance Guidelines ISSUED BY STATE BOARD OF ACCOUNTS 

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## STATE BOARD OF ACCOUNTS CONTACT INFORMATION

SBOA Homepage: www.in.gov/sboa
(for information specific to a special district, select Political Subdivisions and then select special district)

Directors of Audit Services for Special Districts: Mike Crowley and Mitch Wilson
Email Address: specialdistricts@sboa.in.gov
Telephone Number: (317) 232-2513
Gateway Help Desk: gateway@sboa.in.gov
SBOA Communications: communications@sboa.in.gov

## SBOA COMMUNICATIONS

The State Board of Accounts uses a subscriber-based service to periodically send out mass emails to all districts. This service allows anyone to subscribe and receive the most up-to-date guidance from our agency.

If you have not done so already, please sign up to receive our email communications on our home page (www.in.gov/sboa) or by using this link https://www.in.gov/sboa/7130.htm.

When you receive mass emailed communications, the "from" addresses will appear as "specialdistricts@subscriptions.in.gov" or "indiana@subscriptions.in.gov". Please make sure your email software will accept communications from these addresses and won't send them to "junk" or "spam" folders.

These communications will be "no-reply" emails, however, information will be included on where you can direct questions. As always, you can still contact Mike Crowley or Mitch Wilson at specialdistricts@sboa.in.gov.

## YEAR-END DUTIES

The following is a listing of duties and reports that occur each year end. All of the articles have been published in this issue.

- Monthly and Annual Engagement Uploads
- Audit Preparation
- Cancellation of Warrants - Old Outstanding Checks
- Certification of Names and Addresses to County Treasurer
- Encumbered Appropriations - Balance Available
- Dormant Fund Balances - Transfers Authorized
- Internal Control Considerations


## MONTHLY AND ANNUAL ENGAGEMENT UPLOADS

State Examiner Directive 2018-1, as amended, requires the following files and governmental unit information to be uploaded monthly.

- Bank Reconcilements, Bank Statements, and Outstanding Check Lists
- Approved Board Minutes, please see the user guide for more information and examples
- Funds Ledger, summarizing total receipts, disbursements, and beginning and ending balances by fund

State Examiner Directive 2018-1, as amended, requires the following files and governmental unit information to be uploaded annually by March 1 :

- Year-end Investment Statements
- Detail of Receipts for the year
- Detail of Disbursements for the year
- Current year Salary Ordinance (or Schedule) and Amendments
- Annual Vendor History Report
- Annual Payroll History Report, without social security numbers
- Annual Funds Ledger, summarizing year-to-date total receipts, year-to-date disbursements, and beginning and ending balances by fund
- Optional: Excel Data Capture/Data Dump (in lieu of Detail of Receipts and Disbursements

Annual files are due to be uploaded on Gateway no later than March 1, 2022.

Exceptions to certain requirements set forth in this Directive, such as for manual records, units audited by private CPA firms, and other exceptions, are discussed in the Gateway User Guide https://gateway.ifionline.org/userguides/engagementguide. Contact information for questions and other help, including a "Frequently Asked Questions" section, is also available on the User Guide.

If, after consulting the User Guide, you still have questions, please contact the helpdesk at gateway@sboa.in.gov.

## AUDIT PREPARATION

When we arrive to conduct an audit, oftentimes officials have to spend time gathering information, records, and other documentation per our requests. Year-end is a good time to consider preparing some of those items in advance of our arrival so they can easily be produced when we arrive - saving time for you and the examiners.

Here are some items you can get ready at year-end that should help your engagement get off to a good start:

- Minutes of Board meetings
- Bank reconcilements complete and bank information (statements, etc.)
- Claims in order with supporting documentation available
- Copies of new resolutions or significant contracts from the year
- Written policies and procedures (internal controls, accrued leave, travel, etc.)
- Financial reports filed with other state or federal agencies
- Grant awards and agreements (federal and state)


## CANCELLATION OF WARRANTS - OLD OUTSTANDING CHECKS

Pursuant to IC 5-11-10.5, all checks outstanding and unpaid for a period of two years as of December 31 of each year are void.

Not later than March 1 of each year, the fiscal officer shall prepare, or cause to be prepared, a list in duplicate of all checks outstanding for two or more years as of December 31 last preceding. The original copy shall be filed with the district board and the duplicate copy maintained by the fiscal officer of the district. The fiscal officer shall enter the amounts so listed as a receipt to the fund or funds upon which they were originally drawn and remove the checks from the list of outstanding checks. If the fund from which the check was originally drawn is not in existence or cannot be ascertained, the amount of the outstanding check shall be receipted into the operating fund of the district.

The list prepared must include:

1. the date of issue of each warrant or check;
2. the fund upon which the warrant or check was originally drawn;
3. the name of the payee;
4. the amount of each warrant or check issued; and
5. the total amount represented by the warrants or checks listed for each fund.

## CERTIFICATION OF NAMES AND ADDRESSES TO COUNTY TREASURER

IC 6-1.1-22-14 states that on or before June 1 and December 1 of each year, the disbursing officer of each political subdivision shall certify the name and address of each person who has money due the person from the political subdivision to the county treasurer of each county in which the political subdivision is located. Upon the receipt of this information, the county treasurer shall search the records to ascertain if any person so certified is delinquent in the payment of property taxes.

IC 6-1.1-22-15 states that if the county treasurer finds that a person whose name is certified under $6-1.1-22-14$ is delinquent in the payment of taxes, the county treasurer shall certify the name of that person and the amount of delinquency to the official of the political subdivision who is to make payment to the person. The disbursing officer shall periodically make deductions from money due the person and shall pay the amount of these deductions to the county treasurer.

## ENCUMBERED APPROPRIATIONS - BALANCE AVAILABLE

With the opening of a new budget year and a new set of ledgers, it is advantageous to review the unpaid purchase orders and contracts which remain on the ledgers as "encumbered."

Unpaid purchase orders and those items under contract are to be added for each appropriation account and the total carried to the new 2023 corresponding account. The actual unpaid amount of the purchase orders or contracts should be totaled and shown as a separate amount on the appropriation ledger sheet for 2022, with proper explanation, and added to the 2023 appropriation for the same purpose. By properly carrying out this procedure, the 2023 budget will not be expected to stand any expense not anticipated in making the budget.

We suggest the proper officials of the district make a listing of these encumbered items and make it part of the minutes in the last business meeting of the year. The Department of Local Government will request this information from each unit. The information will be used to validate the current year financial worksheet during following year's budget cycle.

Keep in mind the appropriations encumbered and carried forward can be used for no other purpose other than the purchase order or the contract for which they were appropriated.

## DORMANT FUND BALANCES - TRANSFERS AUTHORIZED

IC 36-1-8-5 gives the district board the authority to order the transfer to the operating fund or rainy day fund any unused and unencumbered balance in any fund raised by a general or special tax levy, the purposes of which have been fulfilled. This action may be taken by the district board at any public meeting.

IC 36-1-8-5 states in part:
"(a) This section applies to all funds raised by a general or special tax levy on all the taxable property of a political subdivision.
(b) Whenever the purposes of a tax levy have been fulfilled and an unused and unencumbered balance remains in the fund, the fiscal body of the political subdivision shall order the balance of that fund to be transferred as follows, unless a statute provides that it be transferred otherwise....
(4) Funds of any other political subdivision, to the general fund or rainy day fund of the municipality."

## INTERNAL CONTROL CONSIDERATIONS

At the end of the year, it is a good idea to evaluate the effectiveness of the internal controls of your district and determine whether changes are necessary to provide reasonable assurance that the objectives of your district are met. We also recommend documenting internal control procedures and reviewing for evidence of procedures being performed as intended.

Please note that IC 5-11-1-27 requires all "personnel," as defined in the statute, to be trained on internal controls. Please make sure that all "personnel," including newly hired employees in 2022, have viewed the SBOA approved training video. The SBOA approved training is required only one time, but we do always recommend additional training on internal controls as determined by your district.

## CERTIFIED REPORT OF NAMES, ADDRESSES, DUTIES, AND COMPENSATION OF PUBLIC EMPLOYEES

All districts must file with the State Examiner on or before January 31, Form 100-R, a Certified Report of Names, Addresses, Duties and Compensation of Public Employees. This report is required by IC 5-11-13. Only the business address of each officer or employee listed is to be included on the form.

Such report must indicate whether the district offers a health plan, a pension, and other benefits to full-time and part-time employees

The report is to be filed electronically on the Gateway portal with the State Board of Accounts.

## ANNUAL FINANCIAL REPORT

IC 5-3-1-3 provides that each district fiscal officer shall have published an annual report of the receipts and expenditures of such district within 60 days after the close of each calendar year.

IC 5-11-1-4 requires such reports to be filed electronically on the Gateway portal with the State Board of Accounts no later than sixty (60) days after the close of the year.

If the district has a budget of at least $\$ 300,000$ and the power to levy taxes, the "Cash and Investments Combined Statement" of the annual report is to be published one time in two newspapers unless there is only one newspaper in the district territorial limits, in which case publication in the one newspaper is sufficient. If no newspaper is published in the district territorial limits, then publication is to be made in a newspaper published in the county in which the district is located and that circulates within the district territorial limits.

The "Cash and Investments Combined Statement" to be advertised is located in the Annual Report Outputs section under "Advertising Outputs".

The Department of Local Government Finance may not approve the budget or a supplemental appropriation of a district until the district files an annual report for the preceding calendar year.

## TIMELY FILING OF REQUIRED REPORTS

## The Certified Report of Names, Addresses, Duties and Compensation of Public Employees (100R) and Annual Financial Report (AFR)

Pursuant to IC 5-11-13-1, all governmental units in the state must file the certified personnel report (Form 100R) in January of each year with the State Board of Accounts. Also, pursuant to IC 5-11-1-4, all local governmental units in the state must file an Annual Financial Report (AFR) not later than 60 days after the close of each fiscal year. The Indiana Gateway for Government Units (Gateway) system was created to collect both of these reports.

Due to the importance of these reports, the State Examiner has established the following procedures for reports not filed timely:

If either the 100 R or the AFR are not filed by the statutory due date, the State Board of Accounts will subpoena the fiscal officer to appear in our Indianapolis office with the information necessary to complete the 100R or AFR, as applicable. This subpoena will be served either by certified mail or through personal service by a representative of the Office of the Attorney General (OAG).

If the fiscal officer does not appear or does not submit the 100R or AFR in response to the subpoena, the State Examiner will send a notification to the OAG requesting the OAG to compel the fiscal officer to appear in court to answer as to his or her failure to file the report. The State Examiner may also send notification of the officer's failure to comply with the law to the local prosecuting attorney.

Indiana Code 5-11-1-10 addresses the penalty for not filing a required report and not following the directions of the State Examiner:

A public officer who:

1. fails to make, verify, and file with the state examiner any report required by this chapter; fails to follow the directions of the state examiner in keeping the accounts of the officer's office;

## TIMELY FILING OF REQUIRED REPORTS (Continued)

2. refuses the state examiner, deputy examiner, field examiner, or private examiner access to the books, accounts, papers, documents, cash drawer, or cash of the officer's office; or
3. interferes with an examiner in the discharge of the examiner's official duties; commits a Class B infraction and forfeits office.

If you need submission rights or have any questions regarding the use of Gateway, please contact our help desk at gateway@sboa.in.gov. Please feel free to contact our Directors of Audit Services if you are having difficulty completing your 100R or AFR. Contact information is available on our website at www.in.gov/sboa.

## FEDERAL AND STATE MILEAGE RATES

The Federal business mileage rate is available at www.irs.gov. The State mileage rate is 49 cents per mile as of the date of this publication.

## MONTHLY BANK RECONCILEMENTS

Indiana Code 5-13-6-1 (e) states that all local investment officers shall reconcile at least monthly the balance of public funds, as disclosed by the records of local officers, with the balance statements provided by the respective depositories.

In addition to compliance with statute, monthly bank reconcilements provide internal controls to achieve the safeguarding of public assets. We have received numerous reports that bank routing and account information is being used to create false checks that are clearing bank accounts and stealing public funds. If the unauthorized payments from the account are brought to the attention of the bank in a timely manner, the bank will replace the amount that was stolen. However, if you are not reconciling monthly, you would not be aware of these fraudulent transactions and the delay in reporting these fraudulent transaction to the bank may make it more difficult to get the bank to restore the funds to the bank account. Review the bank statement monthly and verify that all of your recorded deposits are credited to your account and all withdrawals from the account are transactions that trace to checks prepared by your office or electronic funds transfers that you have authorized. By doing this, you would catch any bank errors in a timely manner. In addition you would be able to identify any fraudulent activity as early as possible.

## ESTABLISHING THE ESTIMATED COST OF CAPITAL ASSETS

When it is not possible to determine the historical cost of capital assets owned by a governmental unit, the following procedure should be followed. Develop an inventory of all capital assets which are significant for which records of the historical costs are not available. Obtain an estimate of the replacement costs of these assets. Through inquiry determine the year or approximate year of acquisition. Then multiply the estimated replacement cost by the factor for the year of acquisition from the Table of Cost Indexes. The resulting amount will be the estimated cost of the asset. In some cases estimated replacement cost can be obtained from insurance policies; however, if estimated replacement costs are not available from insurance policies, you should obtain or make an estimate of the replacement costs.

As an example, if the replacement cost is estimated to be $\$ 76,000.00$ and the asset was constructed about 1948, then the estimated cost of the asset should be reported as $\$ 6,080.00$ ( $\$ 76,000.00$ $X .08=\$ 6,080.00$ ).

TABLE OF COST INDEXES
1914 to 2021

| Year | Index | Year | Index | Year | Index | Year | Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2021 | 0.96 | 1994 | 0.53 | 1967 | 0.12 | 1940 | 0.05 |
| 2020 | 0.94 | 1993 | 0.52 | 1966 | 0.12 | 1939 | 0.05 |
| 2019 | 0.93 | 1992 | 0.50 | 1965 | 0.11 | 1938 | 0.05 |
| 2018 | 0.91 | 1991 | 0.48 | 1964 | 0.11 | 1937 | 0.05 |
| 2017 | 0.89 | 1990 | 0.46 | 1963 | 0.11 | 1936 | 0.05 |
| 2016 | 0.88 | 1989 | 0.44 | 1962 | 0.11 | 1935 | 0.05 |
| 2015 | 0.87 | 1988 | 0.42 | 1961 | 0.11 | 1934 | 0.05 |
| 2014 | 0.86 | 1987 | 0.40 | 1960 | 0.11 | 1933 | 0.05 |
| 2013 | 0.85 | 1986 | 0.40 | 1959 | 0.11 | 1932 | 0.06 |
| 2012 | 0.83 | 1985 | 0.38 | 1958 | 0.10 | 1931 | 0.06 |
| 2011 | 0.81 | 1984 | 0.37 | 1957 | 0.10 | 1930 | 0.06 |
| 2010 | 0.79 | 1983 | 0.36 | 1956 | 0.10 | 1929 | 0.06 |
| 2009 | 0.79 | 1982 | 0.33 | 1955 | 0.10 | 1928 | 0.06 |
| 2008 | 0.77 | 1981 | 0.30 | 1954 | 0.10 | 1927 | 0.06 |
| 2007 | 0.74 | 1980 | 0.27 | 1953 | 0.10 | 1926 | 0.06 |
| 2006 | 0.72 | 1979 | 0.24 | 1952 | 0.10 | 1925 | 0.06 |
| 2005 | 0.70 | 1978 | 0.22 | 1951 | 0.09 | 1924 | 0.06 |
| 2004 | 0.68 | 1977 | 0.21 | 1950 | 0.09 | 1923 | 0.06 |
| 2003 | 0.66 | 1976 | 0.20 | 1949 | 0.09 | 1922 | 0.06 |
| 2002 | 0.65 | 1975 | 0.18 | 1948 | 0.08 | 1921 | 0.07 |
| 2001 | 0.64 | 1974 | 0.16 | 1947 | 0.07 | 1920 | 0.06 |
| 2000 | 0.62 | 1973 | 0.15 | 1946 | 0.07 | 1919 | 0.06 |
| 1999 | 0.60 | 1972 | 0.15 | 1945 | 0.06 | 1918 | 0.05 |
| 1998 | 0.59 | 1971 | 0.14 | 1944 | 0.06 | 1917 | 0.04 |
| 1997 | 0.58 | 1970 | 0.13 | 1943 | 0.06 | 1916 | 0.04 |
| 1996 | 0.56 | 1969 | 0.13 | 1942 | 0.05 | 1915 | 0.04 |
| 1995 | 0.55 | 1968 | 0.12 | 1941 | 0.05 | 1914 | 0.04 |

## INDEX TO BULLETINS

An index to the following issues of the Special Districts Bulletin will be available at www.in.gov/sboa:

> 2018 - March, June, September, December
> 2019 - March, June, September, December
> 2020 - March, June, September, December
> 2021 - March, June, September, December
> 2022 - March, June, September, December

## HAPPY HOLIDAYS

We would like to take this opportunity to look back on the many warm associations that we have been blessed with. The outstanding cooperation and help that we are extended by district officials is truly appreciated.

From each of at the SBOA to each of you and your staff, we send our best wishes for the holidays and our sincere wishes for a prosperous and Happy New Year.

## RATES FOR LEGAL ADVERTISING

Effective January 1, 2023

The following rates, effective January 1, 2023, were computed based upon the statutorily authorized $2.75 \%$ increase allowed by IC 5-3-1-1(b)(4). Any percentage increase other than the $2.75 \%$ will require a separate computation by the State Board of Accounts. A newspaper, locality newspaper, or qualified publication may, effective January 1 of any year increase the basic charges by not more than $2.75 \%$ more than the basic charges that were in effect during the previous year.


| 7 | Pica |  | oint Colu |  |
| :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |
| 7 | 0.3782 | 0.5659 | 0.7550 | 0.9442 |
| 7.5 | 0.3530 | 0.5282 | 0.7047 | 0.8812 |
| 8 | 0.3310 | 0.4952 | 0.6607 | 0.8261 |
| 9 | 0.2942 | 0.4402 | 0.5873 | 0.7343 |
| 10 | 0.2648 | 0.3961 | 0.5285 | 0.6609 |
| 12 | 0.2206 | 0.3301 | 0.4404 | 0.5508 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


|  | 7 Pica | 6 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Type Size |  | Number of Insertions |  |  |
|  | 1 | 2 | 3 | 4 |
| 7 | 0.4053 | 0.6063 | 0.8090 | 1.0116 |
| 7.5 | 0.3782 | 0.5659 | 0.7550 | 0.9442 |
| 8 | 0.3546 | 0.5306 | 0.7079 | 0.8852 |
| 9 | 0.3152 | 0.4716 | 0.6292 | 0.7868 |
| 10 | 0.2837 | 0.4244 | 0.5663 | 0.7081 |
| 12 | 0.2364 | 0.3537 | 0.4719 | 0.5901 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
|  | 8 Pica | 3 Point Column |  |  |


| Type Size | Number of Insertions |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 |
| 7 | 0.4458 | 0.6670 | 0.8899 | 1.1128 |
| 7.5 | 0.4161 | 0.6225 | 0.8305 | 1.0386 |
| 8 | 0.3901 | 0.5836 | 0.7786 | 0.9737 |
| 9 | 0.3467 | 0.5188 | 0.6921 | 0.8655 |
| 10 | 0.3120 | 0.4669 | 0.6229 | 0.7789 |
| 12 | 0.2600 | 0.3891 | 0.5191 | 0.6491 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 7 Pica | 2 Point Column |
| :---: | :---: |


| Type Size | Number of Insertions |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 |
| 7 | 0.3874 | 0.5797 | 0.7734 | 0.9671 |
| 7.5 | 0.3616 | 0.5410 | 0.7218 | 0.9026 |
| 8 | 0.3390 | 0.5072 | 0.6767 | 0.8462 |
| 9 | 0.3013 | 0.4508 | 0.6015 | 0.7522 |
| 10 | 0.2712 | 0.4058 | 0.5414 | 0.6770 |
| 12 | 0.2260 | 0.3381 | 0.4511 | 0.5641 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 7 Pica 10 Point Column |
| :---: | :---: |


| Type Size | Number of Insertions |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 |
| 7 | 0.4231 | 0.6330 | 0.8446 | 1.0561 |
| 7.5 | 0.3949 | 0.5908 | 0.7883 | 0.9857 |
| 8 | 0.3702 | 0.5539 | 0.7390 | 0.9241 |
| 9 | 0.3291 | 0.4924 | 0.6569 | 0.8214 |
| 10 | 0.2962 | 0.4431 | 0.5912 | 0.7393 |
| 12 | 0.2468 | 0.3693 | 0.4927 | 0.6161 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 8 Pica 5 Point Column |
| :---: | :---: |


| Type Size | Number of Insertions |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 |
| 7 | 0.4550 | 0.6807 | 0.9082 | 1.1357 |
| 7.5 | 0.4246 | 0.6353 | 0.8477 | 1.0600 |
| 8 | 0.3981 | 0.5956 | 0.7947 | 0.9937 |
| 9 | 0.3539 | 0.5294 | 0.7064 | 0.8833 |
| 10 | 0.3185 | 0.4765 | 0.6357 | 0.7950 |
| 12 | 0.2654 | 0.3971 | 0.5298 | 0.6625 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 8 Pica | 6 Point Column |
| :---: | :---: |


| Type Size | Number of Insertions |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 |
| 7 | 0.4593 | 0.6872 | 0.9168 | 1.1465 |
| 7.5 | 0.4287 | 0.6414 | 0.8557 | 1.0700 |
| 8 | 0.4019 | 0.6013 | 0.8022 | 1.0032 |
| 9 | 0.3572 | 0.5345 | 0.7131 | 0.8917 |
| 10 | 0.3215 | 0.4810 | 0.6418 | 0.8025 |
| 12 | 0.2679 | 0.4009 | 0.5348 | 0.6688 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| Type Size | Number of Insertions |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 |
| 7 | 0.4863 | 0.7276 | 0.9708 | 1.2139 |
| 7.5 | 0.4539 | 0.6791 | 0.9060 | 1.1330 |
| 8 | 0.4255 | 0.6367 | 0.8494 | 1.0622 |
| 9 | 0.3782 | 0.5659 | 0.7550 | 0.9442 |
| 10 | 0.3404 | 0.5093 | 0.6795 | 0.8497 |
| 12 | 0.2837 | 0.4244 | 0.5663 | 0.7081 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


|  | 9 Pica | 2 Point Column |  |  | 9 Pica |  | 4 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.4955 | 0.7414 | 0.9891 | 1.2368 | 7 | 0.5041 | 0.7543 | 1.0064 | 1.2584 |
| 7.5 | 0.4625 | 0.6919 | 0.9232 | 1.1544 | 7.5 | 0.4705 | 0.7040 | 0.9393 | 1.1745 |
| 8 | 0.4336 | 0.6487 | 0.8655 | 1.0822 | 8 | 0.4411 | 0.6600 | 0.8806 | 1.1011 |
| 9 | 0.3854 | 0.5766 | 0.7693 | 0.9620 | 9 | 0.3921 | 0.5867 | 0.7827 | 0.9788 |
| 10 | 0.3468 | 0.5189 | 0.6924 | 0.8658 | 10 | 0.3529 | 0.5280 | 0.7045 | 0.8809 |
| 12 | 0.2890 | 0.4325 | 0.5770 | 0.7215 | 12 | 0.2941 | 0.4400 | 0.5870 | 0.7341 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 9 Pica |  | 5 Point Column |  |  | 9 Pica |  | 6 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.5090 | 0.7616 | 1.0161 | 1.2706 | 7 | 0.5133 | 0.7680 | 1.0247 | 1.2814 |
| 7.5 | 0.4751 | 0.7108 | 0.9483 | 1.1859 | 7.5 | 0.4791 | 0.7168 | 0.9564 | 1.1959 |
| 8 | 0.4454 | 0.6664 | 0.8891 | 1.1117 | 8 | 0.4492 | 0.6720 | 0.8966 | 1.1212 |
| 9 | 0.3959 | 0.5923 | 0.7903 | 0.9882 | 9 | 0.3993 | 0.5974 | 0.7970 | 0.9966 |
| 10 | 0.3563 | 0.5331 | 0.7112 | 0.8894 | 10 | 0.3593 | 0.5376 | 0.7173 | 0.8970 |
| 12 | 0.2969 | 0.4442 | 0.5927 | 0.7412 | 12 | 0.2994 | 0.4480 | 0.5977 | 0.7475 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 9 Pica |  | 8 Point Column |  |  | 9 Pica |  | 9 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.5225 | 0.7818 | 1.0430 | 1.3043 | 7 | 0.5268 | 0.7882 | 1.0517 | 1.3151 |
| 7.5 | 0.4877 | 0.7297 | 0.9735 | 1.2173 | 7.5 | 0.4917 | 0.7357 | 0.9816 | 1.2274 |
| 8 | 0.4572 | 0.6841 | 0.9127 | 1.1413 | 8 | 0.4610 | 0.6897 | 0.9202 | 1.1507 |
| 9 | 0.4064 | 0.6080 | 0.8112 | 1.0144 | 9 | 0.4098 | 0.6131 | 0.8180 | 1.0228 |
| 10 | 0.3658 | 0.5472 | 0.7301 | 0.9130 | 10 | 0.3688 | 0.5518 | 0.7362 | 0.9206 |
| 12 | 0.3048 | 0.4560 | 0.6084 | 0.7608 | 12 | 0.3073 | 0.4598 | 0.6135 | 0.7671 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 9 Pica |  | 10 Point Column |  |  | 9 Pica |  | 11 Point Column |  |  |
|  | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
| Type Size | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.5312 | 0.7947 | 1.0603 | 1.3259 | 7 | 0.5360 | 0.8020 | 1.0700 | 1.3380 |
| 7.5 | 0.4957 | 0.7417 | 0.9896 | 1.2375 | 7.5 | 0.5003 | 0.7485 | 0.9987 | 1.2488 |
| 8 | 0.4648 | 0.6954 | 0.9278 | 1.1601 | 8 | 0.4690 | 0.7017 | 0.9362 | 1.1708 |
| 9 | 0.4131 | 0.6181 | 0.8247 | 1.0312 | 9 | 0.4169 | 0.6238 | 0.8322 | 1.0407 |
| 10 | 0.3718 | 0.5563 | 0.7422 | 0.9281 | 10 | 0.3752 | 0.5614 | 0.7490 | 0.9366 |
| 12 | 0.3098 | 0.4636 | 0.6185 | 0.7734 | 12 | 0.3127 | 0.4678 | 0.6242 | 0.7805 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 10 Pica |  | 0 Point Column |  |  | 10 Pica |  | 5 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.5403 | 0.8085 | 1.0786 | 1.3488 | 7 | 0.5630 | 0.8424 | 1.1239 | 1.4054 |
| 7.5 | 0.5043 | 0.7546 | 1.0067 | 1.2589 | 7.5 | 0.5255 | 0.7863 | 1.0490 | 1.3118 |
| 8 | 0.4728 | 0.7074 | 0.9438 | 1.1802 | 8 | 0.4927 | 0.7371 | 0.9834 | 1.2298 |
| 9 | 0.4203 | 0.6288 | 0.8389 | 1.0491 | 9 | 0.4379 | 0.6552 | 0.8742 | 1.0931 |
| 10 | 0.3782 | 0.5659 | 0.7550 | 0.9442 | 10 | 0.3941 | 0.5897 | 0.7868 | 0.9838 |
| 12 | 0.3152 | 0.4716 | 0.6292 | 0.7868 | 12 | 0.3284 | 0.4914 | 0.6556 | 0.8198 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 10 Pica |  | 6 Point Column |  |  | 11 Pica |  | 0 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.5674 | 0.8489 | 1.1326 | 1.4162 | 7 | 0.5944 | 0.8893 | 1.1865 | 1.4837 |
| 7.5 | 0.5295 | 0.7923 | 1.0571 | 1.3218 | 7.5 | 0.5548 | 0.8300 | 1.1074 | 1.3848 |
| 8 | 0.4964 | 0.7428 | 0.9910 | 1.2392 | 8 | 0.5201 | 0.7781 | 1.0382 | 1.2982 |
| 9 | 0.4413 | 0.6602 | 0.8809 | 1.1015 | 9 | 0.4623 | 0.6917 | 0.9228 | 1.1540 |
| 10 | 0.3972 | 0.5942 | 0.7928 | 0.9914 | 10 | 0.4161 | 0.6225 | 0.8305 | 1.0386 |
| 12 | 0.3310 | 0.4952 | 0.6607 | 0.8261 | 12 | 0.3467 | 0.5188 | 0.6921 | 0.8655 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 11 Pica |  | 3 Point Column |  |  | 11 Pica |  | 7 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.6079 | 0.9095 | 1.2135 | 1.5174 | 7 | 0.6257 | 0.9362 | 1.2491 | 1.5619 |
| 7.5 | 0.5674 | 0.8489 | 1.1326 | 1.4162 | 7.5 | 0.5840 | 0.8738 | 1.1658 | 1.4578 |
| 8 | 0.5319 | 0.7958 | 1.0618 | 1.3277 | 8 | 0.5475 | 0.8192 | 1.0929 | 1.3667 |
| 9 | 0.4728 | 0.7074 | 0.9438 | 1.1802 | 9 | 0.4867 | 0.7282 | 0.9715 | 1.2148 |
| 10 | 0.4255 | 0.6367 | 0.8494 | 1.0622 | 10 | 0.4380 | 0.6553 | 0.8743 | 1.0933 |
| 12 | 0.3546 | 0.5306 | 0.7079 | 0.8852 | 12 | 0.3650 | 0.5461 | 0.7286 | 0.9111 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 12 Pica |  | 5 Point Column |  |  | 12 Pica |  | 9 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.6711 | 1.0041 | 1.3397 | 1.6752 | 7 | 0.6889 | 1.0308 | 1.3753 | 1.7197 |
| 7.5 | 0.6264 | 0.9372 | 1.2503 | 1.5635 | 7.5 | 0.6430 | 0.9621 | 1.2836 | 1.6051 |
| 8 | 0.5872 | 0.8786 | 1.1722 | 1.4658 | 8 | 0.6028 | 0.9019 | 1.2033 | 1.5048 |
| 9 | 0.5220 | 0.7810 | 1.0420 | 1.3029 | 9 | 0.5358 | 0.8017 | 1.0696 | 1.3376 |
| 10 | 0.4698 | 0.7029 | 0.9378 | 1.1726 | 10 | 0.4823 | 0.7215 | 0.9627 | 1.2038 |
| 12 | 0.3915 | 0.5857 | 0.7815 | 0.9772 | 12 | 0.4019 | 0.6013 | 0.8022 | 1.0032 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 13 Pica |  | 0 Point Column |  |  | 13 Pica |  | 2 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.7024 | 1.0510 | 1.4022 | 1.7534 | 7 | 0.7116 | 1.0647 | 1.4206 | 1.7764 |
| 7.5 | 0.6556 | 0.9809 | 1.3087 | 1.6365 | 7.5 | 0.6642 | 0.9938 | 1.3259 | 1.6579 |
| 8 | 0.6146 | 0.9196 | 1.2269 | 1.5343 | 8 | 0.6227 | 0.9316 | 1.2430 | 1.5543 |
| 9 | 0.5463 | 0.8174 | 1.0906 | 1.3638 | 9 | 0.5535 | 0.8281 | 1.1049 | 1.3816 |
| 10 | 0.4917 | 0.7357 | 0.9816 | 1.2274 | 10 | 0.4981 | 0.7453 | 0.9944 | 1.2435 |
| 12 | 0.4098 | 0.6131 | 0.8180 | 1.0228 | 12 | 0.4151 | 0.6211 | 0.8287 | 1.0362 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 14 Pica |  | 2 Point Column |  |  | 14 Pica |  | 5 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.7657 | 1.1456 | 1.5284 | 1.9112 | 7 | 0.7792 | 1.1658 | 1.5554 | 1.9450 |
| 7.5 | 0.7146 | 1.0692 | 1.4265 | 1.7838 | 7.5 | 0.7272 | 1.0881 | 1.4517 | 1.8153 |
| 8 | 0.6700 | 1.0024 | 1.3374 | 1.6723 | 8 | 0.6818 | 1.0201 | 1.3610 | 1.7018 |
| 9 | 0.5955 | 0.8910 | 1.1888 | 1.4865 | 9 | 0.6060 | 0.9067 | 1.2097 | 1.5128 |
| 10 | 0.5360 | 0.8019 | 1.0699 | 1.3379 | 10 | 0.5454 | 0.8161 | 1.0888 | 1.3615 |
| 12 | 0.4466 | 0.6683 | 0.8916 | 1.1149 | 12 | 0.4545 | 0.6800 | 0.9073 | 1.1346 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 14 Pica |  | 7 Point Column |  |  | 14 Pica |  | 9 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.7878 | 1.1787 | 1.5726 | 1.9666 | 7 | 0.7970 | 1.1925 | 1.5910 | 1.9895 |
| 7.5 | 0.7353 | 1.1001 | 1.4678 | 1.8354 | 7.5 | 0.7439 | 1.1130 | 1.4849 | 1.8568 |
| 8 | 0.6893 | 1.0314 | 1.3761 | 1.7207 | 8 | 0.6974 | 1.0434 | 1.3921 | 1.7408 |
| 9 | 0.6127 | 0.9168 | 1.2232 | 1.5295 | 9 | 0.6199 | 0.9275 | 1.2374 | 1.5474 |
| 10 | 0.5515 | 0.8251 | 1.1008 | 1.3766 | 10 | 0.5579 | 0.8347 | 1.1137 | 1.3926 |
| 12 | 0.4596 | 0.6876 | 0.9174 | 1.1472 | 12 | 0.4649 | 0.6956 | 0.9281 | 1.1605 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 15 Pica |  | 0 Point Column |  |  | 15 Pica |  | 9 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.8105 | 1.2127 | 1.6179 | 2.0232 | 7 | 0.8510 | 1.2733 | 1.6988 | 2.1244 |
| 7.5 | 0.7565 | 1.1318 | 1.5101 | 1.8883 | 7.5 | 0.7943 | 1.1884 | 1.5856 | 1.9827 |
| 8 | 0.7092 | 1.0611 | 1.4157 | 1.7703 | 8 | 0.7447 | 1.1142 | 1.4865 | 1.8588 |
| 9 | 0.6304 | 0.9432 | 1.2584 | 1.5736 | 9 | 0.6619 | 0.9904 | 1.3213 | 1.6523 |
| 10 | 0.5674 | 0.8489 | 1.1326 | 1.4162 | 10 | 0.5957 | 0.8913 | 1.1892 | 1.4871 |
| 12 | 0.4728 | 0.7074 | 0.9438 | 1.1802 | 12 | 0.4964 | 0.7428 | 0.9910 | 1.2392 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 16 Pica |  | 5 Point Column |  |  | 17 Pica |  | 3 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 0.8872 | 1.3275 | 1.7711 | 2.2147 | 7 | 0.9321 | 1.3946 | 1.8606 | 2.3267 |
| 7.5 | 0.8281 | 1.2390 | 1.6530 | 2.0671 | 7.5 | 0.8700 | 1.3016 | 1.7366 | 2.1716 |
| 8 | 0.7763 | 1.1616 | 1.5497 | 1.9379 | 8 | 0.8156 | 1.2203 | 1.6281 | 2.0358 |
| 9 | 0.6901 | 1.0325 | 1.3775 | 1.7226 | 9 | 0.7250 | 1.0847 | 1.4472 | 1.8096 |
| 10 | 0.6211 | 0.9292 | 1.2398 | 1.5503 | 10 | 0.6525 | 0.9762 | 1.3024 | 1.6287 |
| 12 | 0.5176 | 0.7744 | 1.0331 | 1.2919 | 12 | 0.5437 | 0.8135 | 1.0854 | 1.3572 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 18 Pica |  | 9 Point Column |  |  | 19 Pica |  | 0 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.0131 | 1.5159 | 2.0224 | 2.5290 | 7 | 1.0267 | 1.5361 | 2.0494 | 2.5627 |
| 7.5 | 0.9456 | 1.4148 | 1.8876 | 2.3604 | 7.5 | 0.9582 | 1.4337 | 1.9128 | 2.3919 |
| 8 | 0.8865 | 1.3264 | 1.7696 | 2.2129 | 8 | 0.8983 | 1.3441 | 1.7932 | 2.2424 |
| 9 | 0.7880 | 1.1790 | 1.5730 | 1.9670 | 9 | 0.7985 | 1.1947 | 1.5940 | 1.9932 |
| 10 | 0.7092 | 1.0611 | 1.4157 | 1.7703 | 10 | 0.7187 | 1.0752 | 1.4346 | 1.7939 |
| 12 | 0.5910 | 0.8843 | 1.1798 | 1.4753 | 12 | 0.5989 | 0.8960 | 1.1955 | 1.4949 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 19 Pica |  | 4 Point Column |  |  | 19 Pica |  | 6 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.0445 | 1.5627 | 2.0850 | 2.6072 | 7 | 1.0537 | 1.5765 | 2.1033 | 2.6302 |
| 7.5 | 0.9749 | 1.4586 | 1.9460 | 2.4334 | 7.5 | 0.9834 | 1.4714 | 1.9631 | 2.4548 |
| 8 | 0.9139 | 1.3674 | 1.8244 | 2.2813 | 8 | 0.9220 | 1.3794 | 1.8404 | 2.3014 |
| 9 | 0.8124 | 1.2155 | 1.6217 | 2.0278 | 9 | 0.8195 | 1.2262 | 1.6359 | 2.0457 |
| 10 | 0.7311 | 1.0939 | 1.4595 | 1.8251 | 10 | 0.7376 | 1.1035 | 1.4723 | 1.8411 |
| 12 | 0.6093 | 0.9116 | 1.2162 | 1.5209 | 12 | 0.6146 | 0.9196 | 1.2269 | 1.5343 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 19 Pica |  | 9 Point Column |  |  | 19 Pica |  | 10 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.0672 | 1.5967 | 2.1303 | 2.6639 | 7 | 1.0715 | 1.6032 | 2.1389 | 2.6747 |
| 7.5 | 0.9960 | 1.4903 | 1.9883 | 2.4863 | 7.5 | 1.0001 | 1.4963 | 1.9963 | 2.4964 |
| 8 | 0.9338 | 1.3971 | 1.8640 | 2.3309 | 8 | 0.9376 | 1.4028 | 1.8716 | 2.3403 |
| 9 | 0.8300 | 1.2419 | 1.6569 | 2.0719 | 9 | 0.8334 | 1.2469 | 1.6636 | 2.0803 |
| 10 | 0.7470 | 1.1177 | 1.4912 | 1.8647 | 10 | 0.7500 | 1.1222 | 1.4972 | 1.8723 |
| 12 | 0.6225 | 0.9314 | 1.2427 | 1.5539 | 12 | 0.6250 | 0.9352 | 1.2477 | 1.5602 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 19 Pica |  | 11 Point Column |  |  | 20 Pica |  | 3 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.0764 | 1.6104 | 2.1486 | 2.6868 | 7 | 1.0942 | 1.6371 | 2.1842 | 2.7313 |
| 7.5 | 1.0046 | 1.5031 | 2.0054 | 2.5077 | 7.5 | 1.0212 | 1.5280 | 2.0386 | 2.5492 |
| 8 | 0.9418 | 1.4091 | 1.8800 | 2.3510 | 8 | 0.9574 | 1.4325 | 1.9112 | 2.3899 |
| 9 | 0.8372 | 1.2526 | 1.6712 | 2.0897 | 9 | 0.8510 | 1.2733 | 1.6988 | 2.1244 |
| 10 | 0.7535 | 1.1273 | 1.5040 | 1.8808 | 10 | 0.7659 | 1.1460 | 1.5290 | 1.9119 |
| 12 | 0.6279 | 0.9394 | 1.2534 | 1.5673 | 12 | 0.6383 | 0.9550 | 1.2741 | 1.5933 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 20 Pica |  | 4 Point Column |  |  | 20 Pica |  | 6 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.0985 | 1.6436 | 2.1929 | 2.7421 | 7 | 1.1077 | 1.6573 | 2.2112 | 2.7650 |
| 7.5 | 1.0253 | 1.5340 | 2.0467 | 2.5593 | 7.5 | 1.0339 | 1.5468 | 2.0638 | 2.5807 |
| 8 | 0.9612 | 1.4381 | 1.9187 | 2.3993 | 8 | 0.9692 | 1.4502 | 1.9348 | 2.4194 |
| 9 | 0.8544 | 1.2784 | 1.7056 | 2.1328 | 9 | 0.8615 | 1.2890 | 1.7198 | 2.1506 |
| 10 | 0.7690 | 1.1505 | 1.5350 | 1.9195 | 10 | 0.7754 | 1.1601 | 1.5478 | 1.9355 |
| 12 | 0.6408 | 0.9588 | 1.2792 | 1.5996 | 12 | 0.6462 | 0.9668 | 1.2899 | 1.6129 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 21 Pica |  | 6 Point Column |  |  | 21 Pica |  | 7 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.1617 | 1.7382 | 2.3191 | 2.8999 | 7 | 1.1661 | 1.7447 | 2.3277 | 2.9107 |
| 7.5 | 1.0843 | 1.6223 | 2.1644 | 2.7066 | 7.5 | 1.0883 | 1.6283 | 2.1725 | 2.7167 |
| 8 | 1.0165 | 1.5209 | 2.0292 | 2.5374 | 8 | 1.0203 | 1.5266 | 2.0367 | 2.5469 |
| 9 | 0.9036 | 1.3519 | 1.8037 | 2.2555 | 9 | 0.9069 | 1.3570 | 1.8104 | 2.2639 |
| 10 | 0.8132 | 1.2167 | 1.6233 | 2.0299 | 10 | 0.8162 | 1.2213 | 1.6294 | 2.0375 |
| 12 | 0.6777 | 1.0139 | 1.3528 | 1.6916 | 12 | 0.6802 | 1.0177 | 1.3578 | 1.6979 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 22 Pica |  | 0 Point Column |  |  | 22 Pica |  | 1 Point Column |  |  |
|  | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
| Type Size | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.1888 | 1.7786 | 2.3730 | 2.9674 | 7 | 1.1931 | 1.7851 | 2.3816 | 2.9782 |
| 7.5 | 1.1095 | 1.6600 | 2.2148 | 2.7695 | 7.5 | 1.1135 | 1.6661 | 2.2228 | 2.7796 |
| 8 | 1.0402 | 1.5563 | 2.0764 | 2.5964 | 8 | 1.0439 | 1.5619 | 2.0839 | 2.6059 |
| 9 | 0.9246 | 1.3834 | 1.8457 | 2.3079 | 9 | 0.9279 | 1.3884 | 1.8524 | 2.3163 |
| 10 | 0.8321 | 1.2450 | 1.6611 | 2.0772 | 10 | 0.8352 | 1.2496 | 1.6671 | 2.0847 |
| 12 | 0.6934 | 1.0375 | 1.3842 | 1.7310 | 12 | 0.6960 | 1.0413 | 1.3893 | 1.7373 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 22 Pica |  | 10 Point Column |  |  | 23 Pica |  | 0 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.2336 | 1.8457 | 2.4625 | 3.0793 | 7 | 1.2428 | 1.8595 | 2.4808 | 3.1022 |
| 7.5 | 1.1514 | 1.7227 | 2.2983 | 2.8740 | 7.5 | 1.1599 | 1.7355 | 2.3155 | 2.8954 |
| 8 | 1.0794 | 1.6150 | 2.1547 | 2.6944 | 8 | 1.0874 | 1.6270 | 2.1707 | 2.7145 |
| 9 | 0.9595 | 1.4356 | 1.9153 | 2.3950 | 9 | 0.9666 | 1.4462 | 1.9295 | 2.4129 |
| 10 | 0.8635 | 1.2920 | 1.7238 | 2.1555 | 10 | 0.8700 | 1.3016 | 1.7366 | 2.1716 |
| 12 | 0.7196 | 1.0767 | 1.4365 | 1.7963 | 12 | 0.7250 | 1.0847 | 1.4472 | 1.8096 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 23 Pica |  | 3 Point Column |  |  | 24 Pica |  | 0 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.2563 | 1.8797 | 2.5078 | 3.1360 | 7 | 1.2968 | 1.9403 | 2.5887 | 3.2371 |
| 7.5 | 1.1725 | 1.7544 | 2.3406 | 2.9269 | 7.5 | 1.2104 | 1.8109 | 2.4161 | 3.0213 |
| 8 | 1.0993 | 1.6447 | 2.1943 | 2.7440 | 8 | 1.1347 | 1.6978 | 2.2651 | 2.8325 |
| 9 | 0.9771 | 1.4620 | 1.9505 | 2.4391 | 9 | 1.0086 | 1.5091 | 2.0134 | 2.5178 |
| 10 | 0.8794 | 1.3158 | 1.7555 | 2.1952 | 10 | 0.9078 | 1.3582 | 1.8121 | 2.2660 |
| 12 | 0.7328 | 1.0965 | 1.4629 | 1.8293 | 12 | 0.7565 | 1.1318 | 1.5101 | 1.8883 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 25 Pica |  | 6 Point Column |  |  | 26 Pica |  | 0 Point Column |  |  |
|  | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
| Type Size | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.3779 | 2.0616 | 2.7505 | 3.4394 | 7 | 1.4049 | 2.1020 | 2.8044 | 3.5069 |
| 7.5 | 1.2860 | 1.9241 | 2.5671 | 3.2101 | 7.5 | 1.3112 | 1.9619 | 2.6175 | 3.2731 |
| 8 | 1.2056 | 1.8039 | 2.4067 | 3.0095 | 8 | 1.2293 | 1.8392 | 2.4539 | 3.0685 |
| 9 | 1.0717 | 1.6034 | 2.1393 | 2.6751 | 9 | 1.0927 | 1.6349 | 2.1812 | 2.7276 |
| 10 | 0.9645 | 1.4431 | 1.9254 | 2.4076 | 10 | 0.9834 | 1.4714 | 1.9631 | 2.4548 |
| 12 | 0.8038 | 1.2026 | 1.6045 | 2.0063 | 12 | 0.8195 | 1.2262 | 1.6359 | 2.0457 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 26 Pica |  | 3 Point Column |  |  | 29 Pica |  | 3 Point Column |  |  |
|  | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
| Type Size | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.4184 | 2.1222 | 2.8314 | 3.5406 | 7 | 1.5805 | 2.3647 | 3.1550 | 3.9452 |
| 7.5 | 1.3238 | 1.9807 | 2.6426 | 3.3046 | 7.5 | 1.4751 | 2.2071 | 2.9447 | 3.6822 |
| 8 | 1.2411 | 1.8569 | 2.4775 | 3.0980 | 8 | 1.3829 | 2.0691 | 2.7606 | 3.4521 |
| 9 | 1.1032 | 1.6506 | 2.2022 | 2.7538 | 9 | 1.2293 | 1.8392 | 2.4539 | 3.0685 |
| 10 | 0.9929 | 1.4855 | 1.9820 | 2.4784 | 10 | 1.1064 | 1.6553 | 2.2085 | 2.7617 |
| 12 | 0.8274 | 1.2380 | 1.6517 | 2.0654 | 12 | 0.9220 | 1.3794 | 1.8404 | 2.3014 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 29 Pica |  | 4 Point Column |  |  | 29 Pica |  | 6 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.5848 | 2.3712 | 3.1636 | 3.9560 | 7 | 1.5940 | 2.3849 | 3.1820 | 3.9790 |
| 7.5 | 1.4792 | 2.2131 | 2.9527 | 3.6923 | 7.5 | 1.4877 | 2.2260 | 2.9698 | 3.7137 |
| 8 | 1.3867 | 2.0748 | 2.7682 | 3.4615 | 8 | 1.3948 | 2.0868 | 2.7842 | 3.4816 |
| 9 | 1.2326 | 1.8443 | 2.4606 | 3.0769 | 9 | 1.2398 | 1.8550 | 2.4749 | 3.0947 |
| 10 | 1.1094 | 1.6598 | 2.2145 | 2.7692 | 10 | 1.1158 | 1.6695 | 2.2274 | 2.7853 |
| 12 | 0.9245 | 1.3832 | 1.8454 | 2.3077 | 12 | 0.9298 | 1.3912 | 1.8561 | 2.3211 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 29 Pica |  | 7 Point Column |  |  | 29 Pica |  | 8 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.5983 | 2.3914 | 3.1906 | 3.9898 | 7 | 1.6032 | 2.3987 | 3.2003 | 4.0019 |
| 7.5 | 1.4918 | 2.2320 | 2.9779 | 3.7238 | 7.5 | 1.4963 | 2.2388 | 2.9869 | 3.7351 |
| 8 | 1.3985 | 2.0925 | 2.7918 | 3.4910 | 8 | 1.4028 | 2.0989 | 2.8003 | 3.5017 |
| 9 | 1.2431 | 1.8600 | 2.4816 | 3.1031 | 9 | 1.2469 | 1.8656 | 2.4891 | 3.1126 |
| 10 | 1.1188 | 1.6740 | 2.2334 | 2.7928 | 10 | 1.1222 | 1.6791 | 2.2402 | 2.8013 |
| 12 | 0.9324 | 1.3950 | 1.8612 | 2.3274 | 12 | 0.9352 | 1.3992 | 1.8668 | 2.3344 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 30 Pica |  | 0 Point Column |  |  | 30 Pica |  | 1 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.6210 | 2.4254 | 3.2359 | 4.0464 | 7 | 1.6254 | 2.4318 | 3.2445 | 4.0572 |
| 7.5 | 1.5130 | 2.2637 | 3.0202 | 3.7766 | 7.5 | 1.5170 | 2.2697 | 3.0282 | 3.7867 |
| 8 | 1.4184 | 2.1222 | 2.8314 | 3.5406 | 8 | 1.4222 | 2.1279 | 2.8390 | 3.5500 |
| 9 | 1.2608 | 1.8864 | 2.5168 | 3.1472 | 9 | 1.2642 | 1.8914 | 2.5235 | 3.1556 |
| 10 | 1.1347 | 1.6978 | 2.2651 | 2.8325 | 10 | 1.1377 | 1.7023 | 2.2712 | 2.8400 |
| 12 | 0.9456 | 1.4148 | 1.8876 | 2.3604 | 12 | 0.9481 | 1.4186 | 1.8926 | 2.3667 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 30 Pica |  | 3 Point Column |  |  | 30 Pica |  | 9 Point Column |  |  |
|  | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
| Type Size | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.6345 | 2.4456 | 3.2629 | 4.0801 | 7 | 1.6616 | 2.4860 | 3.3168 | 4.1476 |
| 7.5 | 1.5256 | 2.2825 | 3.0453 | 3.8081 | 7.5 | 1.5508 | 2.3203 | 3.0957 | 3.8711 |
| 8 | 1.4302 | 2.1399 | 2.8550 | 3.5701 | 8 | 1.4539 | 2.1753 | 2.9022 | 3.6291 |
| 9 | 1.2713 | 1.9021 | 2.5378 | 3.1734 | 9 | 1.2923 | 1.9336 | 2.5797 | 3.2259 |
| 10 | 1.1442 | 1.7119 | 2.2840 | 2.8561 | 10 | 1.1631 | 1.7402 | 2.3217 | 2.9033 |
| 12 | 0.9535 | 1.4266 | 1.9033 | 2.3801 | 12 | 0.9692 | 1.4502 | 1.9348 | 2.4194 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 30 Pica |  | 10 Point Column |  |  | 31 Pica |  | 0 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.6659 | 2.4925 | 3.3254 | 4.1584 | 7 | 1.6751 | 2.5062 | 3.3437 | 4.1813 |
| 7.5 | 1.5548 | 2.3263 | 3.1037 | 3.8811 | 7.5 | 1.5634 | 2.3391 | 3.1208 | 3.9025 |
| 8 | 1.4576 | 2.1809 | 2.9097 | 3.6386 | 8 | 1.4657 | 2.1929 | 2.9258 | 3.6586 |
| 9 | 1.2957 | 1.9386 | 2.5864 | 3.2343 | 9 | 1.3028 | 1.9493 | 2.6007 | 3.2521 |
| 10 | 1.1661 | 1.7447 | 2.3278 | 2.9108 | 10 | 1.1725 | 1.7544 | 2.3406 | 2.9269 |
| 12 | 0.9718 | 1.4539 | 1.9398 | 2.4257 | 12 | 0.9771 | 1.4620 | 1.9505 | 2.4391 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 31 Pica |  | 2 Point Column |  |  | 31 Pica |  | 3 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.6842 | 2.5200 | 3.3621 | 4.2042 | 7 | 1.6886 | 2.5264 | 3.3707 | 4.2150 |
| 7.5 | 1.5720 | 2.3520 | 3.1379 | 3.9239 | 7.5 | 1.5760 | 2.3580 | 3.1460 | 3.9340 |
| 8 | 1.4737 | 2.2050 | 2.9418 | 3.6787 | 8 | 1.4775 | 2.2106 | 2.9494 | 3.6881 |
| 9 | 1.3100 | 1.9600 | 2.6150 | 3.2699 | 9 | 1.3133 | 1.9650 | 2.6217 | 3.2783 |
| 10 | 1.1790 | 1.7640 | 2.3535 | 2.9429 | 10 | 1.1820 | 1.7685 | 2.3595 | 2.9505 |
| 12 | 0.9825 | 1.4700 | 1.9612 | 2.4525 | 12 | 0.9850 | 1.4738 | 1.9663 | 2.4588 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 33 Pica |  | 0 Point Column |  |  | 34 Pica |  | 1 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.7831 | 2.6679 | 3.5595 | 4.4510 | 7 | 1.8415 | 2.7552 | 3.6760 | 4.5967 |
| 7.5 | 1.6643 | 2.4900 | 3.3222 | 4.1543 | 7.5 | 1.7187 | 2.5715 | 3.4309 | 4.2903 |
| 8 | 1.5602 | 2.3344 | 3.1145 | 3.8947 | 8 | 1.6113 | 2.4108 | 3.2165 | 4.0221 |
| 9 | 1.3869 | 2.0750 | 2.7685 | 3.4619 | 9 | 1.4323 | 2.1430 | 2.8591 | 3.5752 |
| 10 | 1.2482 | 1.8675 | 2.4916 | 3.1157 | 10 | 1.2890 | 1.9287 | 2.5732 | 3.2177 |
| 12 | 1.0402 | 1.5563 | 2.0764 | 2.5964 | 12 | 1.0742 | 1.6072 | 2.1443 | 2.6814 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |
| 35 Pica |  | 0 Point Column |  |  | 35 Pica |  | 8 Point Column |  |  |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 1.8912 | 2.8296 | 3.7752 | 4.7208 | 7 | 1.9274 | 2.8838 | 3.8475 | 4.8112 |
| 7.5 | 1.7651 | 2.6410 | 3.5235 | 4.4061 | 7.5 | 1.7989 | 2.6915 | 3.5910 | 4.4904 |
| 8 | 1.6548 | 2.4759 | 3.3033 | 4.1307 | 8 | 1.6865 | 2.5233 | 3.3665 | 4.2098 |
| 9 | 1.4709 | 2.2008 | 2.9363 | 3.6717 | 9 | 1.4991 | 2.2429 | 2.9925 | 3.7420 |
| 10 | 1.3238 | 1.9807 | 2.6426 | 3.3046 | 10 | 1.3492 | 2.0186 | 2.6932 | 3.3678 |
| 12 | 1.1032 | 1.6506 | 2.2022 | 2.7538 | 12 | 1.1243 | 1.6822 | 2.2444 | 2.8065 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |


| 39 Pica |  | 0 Point Column |  |  | 39 Pica |  | 5 Point Column |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type Size | Number of Insertions |  |  |  | Type Size | Number of Insertions |  |  |  |
|  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| 7 | 2.1073 | 3.1530 | 4.2067 | 5.2603 | 7 | 2.1300 | 3.1869 | 4.2520 | 5.3170 |
| 7.5 | 1.9668 | 2.9428 | 3.9262 | 4.9096 | 7.5 | 1.9880 | 2.9745 | 3.9685 | 4.9625 |
| 8 | 1.8439 | 2.7589 | 3.6808 | 4.6028 | 8 | 1.8638 | 2.7886 | 3.7205 | 4.6523 |
| 9 | 1.6390 | 2.4523 | 3.2718 | 4.0914 | 9 | 1.6567 | 2.4787 | 3.3071 | 4.1354 |
| 10 | 1.4751 | 2.2071 | 2.9447 | 3.6822 | 10 | 1.4910 | 2.2309 | 2.9764 | 3.7219 |
| 12 | 1.2293 | 1.8392 | 2.4539 | 3.0685 | 12 | 1.2425 | 1.8590 | 2.4803 | 3.1016 |
| Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 | Rate/Square | 7.88 | 11.79 | 15.73 | 19.67 |

