

## TITLE XXXVII.

## COINAGE, WEIGHTS, AND MEASURES.

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SEC. 3495. The different mints and assay-offices shall be known as—

First. The mint of the United States at Philadelphia.

Second. The mint of the United States at San Francisco.

Third. The mint of the United States at New Orleans.

Fourth. The mint of the United States at Carson.

Fifth. The mint of the United States at Denver.

Enumeration of mints and assay-offices.

12 Feb., 1873, c. 131, s. 66, v. 17, p. 435.

	Sixth. The United States assay-office at New York.
	Seventh. The United States assay-office at Boise City, Idaho.
	Eighth. The United States assay-office at Charlotte, North Carolina.
Officers of mints.	SEC. 3496. The officers of each mint shall be a superintendent, an
Ibid., s. 3, p. 424.	assayer, a melter and refiner, and a coiner; and, for the Mint at Phila-
	delphia, an engraver; all to be appointed by the President, by and with
	the advice and consent of the Senate.
Superintendents of certain mints to perform duties of treasurer.	SEC. 3497. The superintendents of the mints at Philadelphia, San
Ibid., s. 65.	Francisco, and New Orleans shall be, and perform the duties of, treas-
Salaries of officers of mints.	urers of said mints respectively.
Ibid., s. 12, p. 426.	SEC. 3498. The officers of the several mints shall be entitled to the
	following salaries, to be paid monthly:
	First. The superintendents of the mints at Philadelphia and San
	Francisco, to four thousand five hundred dollars a year each.
	Second. The assayers, melters and refiners, and the coiners of those
	mints, to three thousand dollars a year each.
	Third. The engraver of the Mint at Philadelphia, to three thousand
	dollars a year.
	Fourth. The superintendent of the mint at Carson City to three
	thousand dollars a year.
	Fifth. The assayer, the melter and refiner, and the coiner of the mint
	at Carson City, to two thousand five hundred dollars a year each.
Salaries of assistants, clerks, and laborers employed in the mints.	SEC. 3499. There shall be allowed to the assistants and clerks of the
Ibid.	several mints such annual salaries as the Director of the Mint may, with
	the approbation of the Secretary of the Treasury, determine, and to the
	workmen employed therein such wages as may be customary and reason-
	able according to their respective stations and occupations, to be
	determined by the superintendent, and approved by the Director of the
	Mint. The salaries provided for in this and the preceding section, and
	the wages of workmen permanently engaged, shall be payable in monthly
	installments.
Oath of office of officers, assistants, and clerks.	SEC. 3500. Every officer, assistant, and clerk appointed for any mint
Ibid., s. 10, p. 425.	shall, before he enters upon the execution of his office, take an oath
	before some judge of the United States, or judge of some court of record
	of the State in which such mint is located, faithfully and diligently to
	perform the duties thereof; in addition to other official oaths prescribed
	by law, such oath, duly certified, shall be transmitted to the Secretary
	of the Treasury. The superintendent of each mint may require such
	oath from any of the employes of the mint. [See §§ 1756, 1757.]
Bonds of officers, assistants, and clerks.	SEC. 3501. The superintendent, the assayer, the melter and refiner,
Ibid., s. 11, p. 425.	and the coiner of each mint, before entering upon the execution of their
	respective offices, shall become bound to the United States, with one or
	more sureties, approved by the Secretary of the Treasury, in the sum of
	not less than ten nor more than fifty thousand dollars, with condition for
	the faithful and diligent performance of the duties of his office. Similar
	bonds may be required of the assistants and clerks, in such sums as the
	superintendent shall determine, with the approbation of the Director of
	the Mint; but the same shall not be construed to relieve the super-
	intendent or other officers from liability to the United States for acts,
	omissions, or negligence of their subordinates or employes; and the
	Secretary of the Treasury may, at his discretion, increase the bonds of
	the superintendents.
Who to act in absence of director, superintendent, or other officer.	SEC. 3502. Whenever any officer of a mint or assay-office shall be
Ibid., s. 9, p. 425.	temporarily absent, on account of sickness or any other cause, it shall
	be lawful for the superintendent, with the consent of such officer, to
	appoint some person attached to the mint to act in the place of such
	officer during his absence; but all such appointments shall be forthwith
	reported to the Director of the Mint for his approval; and in all cases
	whatsoever the principal shall be responsible for the acts of his repre-
	sentative. In case of the temporary absence of the superintendent, the
	chief clerk shall act in his place; in case of the temporary absence of

the Director of the Mint the Secretary of the Treasury may designate some one to act in his place.

SEC. 3503. The superintendent of each mint shall have the control thereof, the superintendence of the officers and persons employed therein, and the supervision of the business thereof, subject to the approval of the Director of the Mint. He shall make reports to the Director of the Mint at such times and according to such forms as the Director may prescribe; which shall exhibit in detail, and under appropriate heads, the deposits of bullion, the amount of gold, silver, and minor coinage, and the amount of unparted, standard, and refined bars issued, and such other statistics and information as may be required.

General duties  
of superintendents  
of mints.

Ibid., s. 4, p. 424.

SEC. 3504. He shall keep and render, quarter-yearly, to the Director of the Mint, for the purpose of adjustment according to such forms as may be prescribed by the Secretary of the Treasury, regular and faithful accounts of his transactions with the other officers of the mint and the depositors; and shall also render to him a monthly statement of the ordinary expenses of the mint or assay-office under his charge. He shall also appoint all assistants, clerks, one of whom shall be designated "chief clerk," and workmen employed under his superintendence; but no person shall be appointed to employment in the offices of the assayer, melter and refiner, coiner, or engraver, except on the recommendation and nomination in writing of those officers, respectively. He shall forthwith report to the Director of the Mint the names of all persons appointed by him, the duties to be performed, the rate of compensation, the appropriation from which compensation is to be made, and the grounds of the appointment; and if the Director of the Mint shall disapprove the same, the appointment shall be vacated.

Ibid.

SEC. 3505. Any gold coins of the United States, if reduced in weight by natural abrasion not more than one-half of one per centum below the standard weight prescribed by law, after a circulation of twenty years, as shown by the date of coinage, and at a ratable proportion for any period less than twenty years, shall be received at their nominal value by the United States Treasury and its offices, under such regulations as the Secretary of the Treasury may prescribe for the protection of the Government against fraudulent abrasion or other practices.

Coins reduced in  
weight by abra-  
sion.

Ibid., s. 14, p. 426.

SEC. 3506. The superintendent of each mint shall receive and safely keep, until legally withdrawn, all moneys or bullion which shall be for the use or the expenses of the mint. He shall receive all bullion brought to the mint for assay or coinage; shall be the keeper of all bullion or coin in the mint, except while the same is legally in the hands of other officers; and shall deliver all coins struck at the mint to the persons to whom they shall be legally payable. From the report of the assayer and the weight of the bullion, he shall compute the value of each deposit, and also the amount of the charges or deductions, if any, of all which he shall give a detailed memorandum to the depositor; and he shall also give at the same time, under his hand, a certificate of the net amount of the deposit, to be paid in coins or bars of the same species of bullion as that deposited, the correctness of which certificate shall be verified by the assayer, who shall countersign the same, and in all cases of transfer of coin or bullion, shall give and receive vouchers, stating the amount and character of such coin or bullion.

Duties of super-  
intendents in re-  
spect to coin and  
bullion.

Ibid., s. 4, p. 424.

SEC. 3507. The assayer shall assay all metals and bullion, whenever such assays are required in the operations of the mint; and shall make assays of coin or samples of bullion whenever required by the superintendent.

Duties of assay-  
ers.

Ibid., s. 5, p. 425.

SEC. 3508. The melter and refiner shall execute all the operations which are necessary in order to form ingots of standard silver or gold, and alloys for minor coinage, suitable for the coiner, from the metals legally delivered to him for that purpose; and shall also execute all the operations which are necessary in order to form bars conformable in all respects to the law, from the gold and silver bullion delivered to him for that purpose. He shall keep a careful record of all transactions with

Duties of melt-  
ers and refiners.

Ibid., s. 6, p. 425.

<p>Duties of coiners. <u>Ibid., s. 7, p. 425.</u></p>	<p>the superintendent, noting the weight and character of the bullion, and shall be responsible for all bullion delivered to him until the same is returned to the superintendent and the proper vouchers obtained.</p> <p>SEC. 3509. The coiner shall execute all the operations which are necessary in order to form coins, conformable in all respects to the law, from the standard gold and silver ingots, and alloys for minor coinage, legally delivered to him for that purpose; and shall be responsible for all bullion delivered to him, until the same is returned to the superintendent and the proper vouchers obtained.</p>
<p>Duties of engravers. <u>Ibid., s. 8, p. 425.</u></p>	<p>SEC. 3510. The engraver shall prepare from the original dies already authorized all the working-dies required for use in the coinage of the several mints, and, when new coins or devices are authorized, shall, if required by the Director of the Mint, prepare the devices, models, molds, and matrices, or original dies, for the same; but the Director of the Mint shall nevertheless have power, with the approval of the Secretary of the Treasury, to engage temporarily for this purpose the services of one or more artists, distinguished in their respective departments of art, who shall be paid for such service from the contingent appropriation for the Mint at Philadelphia.</p>
<p>Gold coins of the United States and their weight. <u>Ibid., s. 14, p. 426.</u></p>	<p>SEC. 3511. The gold coins of the United States shall be a one-dollar piece, which, at the standard weight of twenty-five and eight-tenths grains, shall be the unit of value; a quarter-eagle, or two and a half dollar piece; a three-dollar piece; a half-eagle, or five-dollar piece; an eagle, or ten-dollar piece; and a double-eagle, or twenty-dollar piece. And the standard weight of the gold dollar shall be twenty-five and eight-tenths grains; of the quarter-eagle, or two and a half dollar piece, sixty-four and a half grains; of the three-dollar piece, seventy-seven and four-tenths grains; of the half-eagle, or five-dollar piece, one hundred and twenty-nine grains; of the eagle, or ten-dollar piece, two hundred and fifty-eight grains; of the double-eagle, or twenty-dollar piece, five hundred and sixteen grains.</p>
<p>Recoinage of gold coins. <u>Ibid., s. 14, p. 426.</u></p>	<p>SEC. 3512. Any gold coins in the Treasury of the United States, when reduced in weight by natural abrasion more than one-half of one per centum below the standard weight prescribed by law, shall be recoined.</p>
<p>Silver coins and their weight. <u>Ibid., s. 15, p. 427.</u></p>	<p>SEC. 3513. The silver coins of the United States shall be a trade-dollar, a half-dollar, or fifty-cent piece, a quarter-dollar, or twenty-five-cent piece, a dime, or ten-cent piece; and the weight of the trade-dollar shall be four hundred and twenty grains troy; the weight of the half-dollar shall be twelve grams and one-half of a gram; the quarter-dollar and the dime shall be, respectively, one-half and one-fifth of the weight of said half-dollar.</p>
<p>Standard for gold and silver coins. <u>Ibid., s. 13, p. 426.</u></p>	<p>SEC. 3514. The standard for both gold and silver coins of the United States shall be such that of one thousand parts by weight nine hundred shall be of pure metal and one hundred of alloy. The alloy of the silver coins shall be of copper. The alloy of the gold coins shall be of copper, or of copper and silver; but the silver shall in no case exceed one-tenth of the whole alloy. [See § 5400.]</p>
<p>Minor coins; their weight and alloy. <u>Ibid., s. 16, p. 427.</u></p>	<p>SEC. 3515. The minor coins of the United States shall be a five-cent piece, a three-cent piece, and a one-cent piece. The alloy for the five and three-cent pieces shall be of copper and nickel, to be composed of three-fourths copper and one-fourth nickel. The alloy of the one-cent piece shall be ninety-five per centum of copper and five per centum of tin and zinc, in such proportions as shall be determined by the Director of the Mint. The weight of the piece of five cents shall be seventy-seven and sixteen-hundredths grains troy; of the three-cent piece, thirty grains; and of the one-cent piece, forty-eight grains.</p>
<p>Issue of other coins prohibited. <u>Ibid., s. 17, p. 427.</u></p>	<p>SEC. 3516. No coins, either of gold, silver, or minor coinage, shall hereafter be issued from the Mint other than those of the denominations, standards, and weights set forth in this Title. [See §§ 5457-5462.]</p>
<p>Inscriptions upon coins. <u>Ibid., s. 18, p. 427.</u></p>	<p>SEC. 3517. Upon the coins there shall be the following devices and legends: Upon one side there shall be an impression emblematic of liberty, with an inscription of the word "Liberty" and the year of the</p>

coinage, and upon the reverse shall be the figure or representation of an eagle, with the inscriptions "United States of America" and "E Pluribus Unum," and a designation of the value of the coin; but on the gold dollar and three-dollar-piece, the dime, five, three, and one-cent piece, the figure of the eagle shall be omitted; and on the reverse of the silver trade-dollar the weight and the fineness of the coin shall be inscribed.

SEC. 3518. At the option of the owner gold or silver may be cast into bars of fine metal, or of standard fineness, or unparted, as he may prefer, with a stamp upon the same designating the weight and fineness, and with such devices impressed thereon as may be deemed expedient to prevent fraudulent imitation, and no such bars shall be issued of a less weight than five ounces.

SEC. 3519. Any owner of gold bullion may deposit the same at any mint, to be formed into coin or bars for his benefit. It shall be lawful, however, to refuse any deposit of less value than one hundred dollars, or any bullion so base as to be unsuitable for the operations of the Mint. In cases where gold and silver are combined, if either metal be in such small proportion that it cannot be separated advantageously, no allowance shall be made to the depositor for its value.

SEC. 3520. Any owner of silver bullion may deposit the same at any mint, to be formed into bars, or into dollars of the weight of four hundred and twenty grains troy, designated in this Title as trade-dollars, and no deposit of silver for other coinage shall be received. Silver bullion contained in gold deposits, and separated therefrom, may, however, be paid for in silver coin, at such valuation as may be, from time to time, established by the Director of the Mint.

SEC. 3521. When bullion is deposited in any of the mints, it shall be weighed by the superintendent, and, when practicable, in the presence of the depositor, to whom a receipt shall be given, which shall state the description and weight of the bullion. When, however, the bullion is in such a state as to require melting, or the removal of base metals, before its value can be ascertained, the weight, after such operation, shall be considered as the true weight of the bullion deposited. The fitness of the bullion to be received shall be determined by the assayer, and the mode of melting by the melter and refiner.

SEC. 3522. From every parcel of bullion deposited for coinage or bars, the superintendent shall deliver to the assayer a sufficient portion for the purpose of being assayed. The bullion remaining from the operations of the assay shall be returned to the superintendent by the assayer.

SEC. 3523. The assayer shall report to the superintendent the quality or fineness of the bullion assayed by him, and such information as will enable him to compute the amount of the charges hereinafter provided for, to be made to the depositor.

SEC. 3524. The charge for converting standard gold bullion into coin shall be one-fifth of one per centum. The charges for converting standard silver into trade-dollars for melting and refining when bullion is below standard, for toughening when metals are contained in it which render it unfit for coinage, for copper used for alloy when the bullion is above standard, for separating the gold and silver when these metals exist together in the bullion, and for the preparation of bars, shall be fixed, from time to time, by the Director, with the concurrence of the Secretary of the Treasury, so as to equal but not exceed, in their judgment, the actual average cost to each mint and assay-office of the material, labor, wastage, and use of machinery employed in each of the cases aforementioned.

SEC. 3525. The assayer shall verify all calculations made by the superintendent of the value of deposits, and, if satisfied of the correctness thereof, shall countersign the certificate required to be given by the superintendent to the depositor.

Gold and silver bars.

Ibid., s. 19, p. 427.

Coining gold bullion; when deposits may be refused.

Ibid., s. 20, p. 427.

Silver bullion may be received for forming into bars or trade-dollars.

Ibid., s. 21, p. 427.

Weighing bullion and ascertaining its value.

Ibid., s. 22, p. 428.

Assay of bullion.

Ibid., s. 23, p. 428.

Assayer to report to superintendent quality of bullion assayed.

Ibid., s. 24, p. 428.

Charges for converting bullion, &c., into coin.

Ibid., s. 25, p. 428.

Assayer to verify calculations of the value of deposits and countersign certificate.

Ibid., s. 26, p. 428.

Purchase of bullion for silver coinage, the silver-profit fund.

Ibid., s. 27, p. 428.

SEC. 3526. In order to procure bullion for the silver coinage authorized by this Title, the superintendents, with the approval of the Director of the Mint, as to price, terms, and quantity, shall purchase such bullion with the bullion-fund. The gain arising from the coinage of such silver bullion into coin of a nominal value exceeding the cost thereof shall be credited to a special fund denominated the silver-profit fund. This fund shall be charged with the wastage incurred in the silver coinage, and with the expense of distributing such silver coins as hereinafter provided. The balance to the credit of this fund shall be from time to time, and at least twice a year, paid into the Treasury of the United States.

Paying out silver coins for gold coin authorized.

Ibid., s. 28, p. 428.

SEC. 3527. Silver coins other than the trade-dollar shall be paid out at the several mints, and at the assay-office in New York City, in exchange for gold coins at par, in sums not less than one hundred dollars. It shall be lawful, also, to transmit parcels of the same, from time to time, to the assistant treasurers, depositaries, and other officers of the United States, under general regulations proposed by the Director of the Mint, and approved by the Secretary of the Treasury. Nothing herein contained shall, however, prevent the payment of silver coins, at their nominal value, for silver parted from gold, as provided in this Title, or for change less than one dollar in settlement for gold deposits. But for two years after the twelfth day of February, eighteen hundred and seventy-three, silver coins shall be paid at the Mint in Philadelphia and the assay-office in New York City, for silver bullion purchased for coinage, under such regulations as may be prescribed by the Director of the Mint and approved by the Secretary of the Treasury.

Purchase of metal for minor coinage; the minor-coinage profit-fund.

Ibid., s. 29, p. 429.

SEC. 3528. For the purchase of metal for the minor coinage authorized by this Title, a sum not exceeding fifty thousand dollars in lawful money of the United States shall be transferred by the Secretary of the Treasury to the credit of the superintendent of the Mint at Philadelphia, at which establishment only, until otherwise provided by law, such coinage shall be carried on. The superintendent, with the approval of the Director of the Mint as to price, terms, and quantity, shall purchase the metal required for such coinage by public advertisement, and the lowest and best bid shall be accepted, the fineness of the metals to be determined on the Mint assay. The gain arising from the coinage of such metals into coin of a nominal value, exceeding the cost thereof, shall be credited to the special fund denominated the minor-coinage profit fund; and this fund shall be charged with the wastage incurred in such coinage, and with the cost of distributing said coins as hereinafter provided. The balance remaining to the credit of this fund, and any balance of profits accrued from minor coinage under former acts, shall be, from time to time, and at least twice a year, covered into the Treasury.

Delivery of minor coins; redemption.

Ibid., s. 30, p. 429.

SEC. 3529. The minor coins authorized by this Title may, at the discretion of the Director of the Mint, be delivered in any of the principal cities and towns of the United States, at the cost of the Mint, for transportation, and shall be exchangeable at par at the Mint in Philadelphia, at the discretion of the superintendent, for any other coins of copper, bronze, or copper-nickel heretofore authorized by law. It shall be lawful for the Treasurer and the several assistant treasurers and depositaries of the United States to redeem, in lawful money, under such rules as may be prescribed by the Secretary of the Treasury, all copper, bronze, and copper-nickel coins authorized by law when presented in sums of not less than twenty dollars. Whenever, under this authority, these coins are presented for redemption in such quantity as to show the amount outstanding to be redundant, the Secretary of the Treasury is authorized and required to direct that such coinage shall cease until otherwise ordered by him.

SEC. 3530. Parcels of bullion shall be, from time to time, transferred by the superintendent to the melter and refiner. A careful record of these transfers, noting the weight and character of the bullion, shall be kept, and vouchers shall be taken for the delivery of the same, duly receipted by the melter and refiner. The bullion thus placed in the hands of the melter and refiner shall be subjected to the several processes which may be necessary to form it into ingots of the legal standard, and of a quality suitable for coinage.

Transfer of bullion for formation into ingots.

Ibid., s. 31, p. 429.

SEC. 3531. The ingots so prepared shall be assayed. If they prove to be within the limits allowed for deviation from the standard, the assayer shall certify the fact to the superintendent, who shall thereupon receipt for the same, and transfer them to the coiner.

Ingots to be assayed, and receipted for.

Ibid., s. 32, p. 429.

SEC. 3532. The superintendent shall, from time to time, deliver to the coiner ingots for the purpose of coinage. A careful record of these transfers, noting the weight and character of the bullion, shall be kept, and vouchers shall be taken for the delivery of the same, duly receipted by the coiner. The ingots thus placed in the hands of the coiner shall be subjected to the several processes necessary to make from them coins in all respects conformable to law.

Delivery of ingots to coiner for coinage.

Ibid., s. 35, p. 429.

SEC. 3533. No ingots shall be used for coinage which differ from the legal standard more than the following proportions, namely: In gold ingots, one thousandth; in silver ingots, three-thousandths; in minor-coinage alloys, twenty-five thousandths, in the proportion of nickel.

Standard of ingots used for coinage.

Ibid., s. 33, p. 429.

SEC. 3534. The melter and refiner shall prepare all bars required for the payment of deposits; but the fineness thereof shall be ascertained and stamped thereon by the assayer. The melter and refiner shall deliver such bars to the superintendent, who shall receipt for the same.

Preparation and stamping of bars for payment of deposits.

Ibid., s. 34, p. 429.

SEC. 3535. In adjusting the weights of the gold coins, the following deviations shall not be exceeded in any single piece: In the double-eagle and the eagle, one-half of a grain; in the half-eagle, the three-dollar piece, the quarter-eagle, and the one-dollar piece, one-fourth of a grain. And in weighing a number of pieces together, when delivered by the coiner to the superintendent, and by the superintendent to the depositor, the deviation from the standard weight shall not exceed one hundredth of an ounce in five thousand dollars in double-eagles, eagles, half-eagles, or quarter-eagles, in one thousand three-dollar pieces, and in one thousand one-dollar pieces.

Deviations allowed in adjusting weights of gold coins.

Ibid., s. 36, p. 430.

SEC. 3536. In adjusting the weight of the silver coins the following deviations shall not be exceeded in any single piece: In the dollar, the half and quarter dollar, and in the dime, one and one-half grains. And in weighing large number of pieces together, when delivered by the coiner to the superintendent, and by the superintendent to the depositor, the deviations from the standard weight shall not exceed two-hundredths of an ounce in one thousand dollars, half-dollars, or quarter-dollars, and one-hundredth of an ounce in one thousand dimes.

Of silver coins.

Ibid., s. 37, p. 430.

SEC. 3537. In adjusting the weight of the minor coins provided by this Title, there shall be no greater deviation allowed than three grains for the five-cent piece and two grains for the three and one-cent pieces.

Of minor coins.

Ibid., s. 38, p. 430.

SEC. 3538. The coiner shall, from time to time, as coins are prepared, deliver them to the superintendent, who shall receipt for the same, and who shall keep a careful record of their kind, number, and actual weight. In receiving coins it shall be the duty of the superintendent to ascertain, by the trial of a number of single pieces separately, whether the coins of that delivery are within the legal limits of the standard weight; and if his trials for this purpose shall not prove satisfactory, he shall cause all the coins of such delivery to be weighed separately, and such as are not of legal weight shall be defaced and delivered to the melter and refiner as standard bullion, to be again formed into ingots and recoined; or the whole delivery may, if more convenient, be remelted.

Delivery of coins by coiner, and trial of pieces.

Ibid., s. 39, p. 430.

Trial-pieces to be sealed up and transmitted quarterly to the Mint at Philadelphia.

Ibid., s. 40, p. 430.

SEC. 3539. At every delivery of coins made by the coiner to a superintendent, it shall be the duty of such superintendent, in the presence of the assayer, to take indiscriminately a certain number of pieces of each variety for the annual trial of coins, the number for gold coins being not less than one piece for each one thousand pieces or any fractional part of one thousand pieces delivered; and for silver coins one piece for each two thousand pieces or any fractional part of two thousand pieces delivered. The pieces so taken shall be carefully sealed up in an envelope, properly labeled, stating the date of the delivery, the number and denomination of the pieces inclosed, and the amount of the delivery from which they were taken. These sealed parcels containing the reserved pieces shall be deposited in a pyx, designated for the purpose at each mint, which shall be kept under the joint care of the superintendent and assayer, and be so secured that neither can have access to its contents without the presence of the other, and the reserved pieces in their sealed envelopes from the coinage of each mint shall be transmitted quarterly to the Mint at Philadelphia. A record shall also be kept at the same time of the number and denomination of the pieces so taken for the annual trial of coins, and of the number and denomination of the pieces represented by them and so delivered, a copy of which record shall be transmitted quarterly to the Director of the Mint. Other pieces may, at any time, be taken for such tests as the Director of the Mint shall prescribe.

Disposal of clippings, &c.

Ibid., s. 41, p. 430.

SEC. 3540. The coiner shall, from time to time, deliver to the superintendent the clippings and other portions of bullion remaining after the process of coining; and the superintendent shall receipt for the same and keep a careful record of their weight and character.

Yearly settlement of accounts of coiner, melter and refiner.

Ibid., s. 42, p. 431.

SEC. 3541. The superintendent shall debit the coiner with the amount in weight of standard metal of all the bullion placed in his hands, and credit him with the amount in weight of all the coins, clippings, and other bullion returned by him to the superintendent. Once at least in every year, and at such time as the Director of the Mint shall appoint, there shall be an accurate and full settlement of the accounts of the coiner, and the melter and refiner, at which time those officers shall deliver up to the superintendent all the coins, clippings, and other bullion in their possession, respectively, accompanied by statements of all the bullion delivered to them since the last annual settlement, and all the bullion returned by them during the same period, including the amount returned for the purpose of settlement.

Allowance for wastage.

Ibid., s. 43, p. 431.

SEC. 3542. When all the coins, clippings, and other bullion have been delivered to the superintendent, it shall be his duty to examine the accounts and statements rendered by the coiner and the melter and refiner. The difference between the amount charged, and credited to each officer shall be allowed as necessary wastage, if the superintendent shall be satisfied that there has been a bona-fide waste of the precious metals, and if the amount shall not exceed, in the case of the melter and refiner, one-thousandth of the whole amount of gold, and one and one-half thousandths of the whole amount of silver delivered to him since the last annual settlement, and in the case of the coiner, one-thousandth of the whole amount of silver, and one-half thousandth of the whole amount of gold that has been delivered to him by the superintendent. All copper used in the alloy of gold and silver bullion shall be separately charged to the melter and refiner, and accounted for by him.

Statement of balance-sheet to be forwarded by superintendent to Director of Mints.

Ibid., s. 44, p. 431.

SEC. 3543. It shall also be the duty of the superintendent to forward a correct statement of his balance-sheet, at the close of such settlement, to the Director of the Mint; who shall compare the total amount of gold and silver bullion and coin on hand with the total liabilities of the mint. At the same time a statement of the ordinary expense account, and the moneys therein, shall also be made by the superintendent.

Delivery of coin or bars to depositor.

Ibid., s. 45, p. 431.

SEC. 3544. When the coins or bars which are the equivalent to any deposit of bullion are ready for delivery, they shall be paid to the depositor, or his order, by the superintendent; and the payments shall



be made, if demanded, in the order in which the bullion shall have been brought to the mint. In cases, however, where there is delay in manipulating a refractory deposit, or for any other unavoidable cause, the payment of subsequent deposits, the value of which is known, shall not be delayed thereby. In the denominations of coin delivered, the superintendent shall comply with the wishes of the depositor, except when impracticable or inconvenient to do so.

SEC. 3545. For the purpose of enabling the mints and the assay-office in New York to make returns to depositors with as little delay as possible, it shall be the duty of the Secretary of the Treasury to keep in such mints and assay-office, when the state of the Treasury will admit thereof, such an amount of public money, or bullion procured for the purpose, as he shall judge convenient and necessary, out of which those who bring bullion to the said mints and assay-office may be paid the value thereof, in coin or bars, as soon as practicable after the value has been ascertained. On payment thereof being made, the bullion so deposited shall become the property of the United States. The Secretary of the Treasury may, however, at any time withdraw the fund, or any portion thereof.

SEC. 3546. Unparted bullion may be exchanged at any of the mints for fine bars, on such terms and conditions as may be prescribed by the Director of the Mint, with the approval of the Secretary of the Treasury. The fineness, weight, and value of the bullion received and given in exchange shall in all cases be determined by the mint assay. The charge to the depositor for refining or parting shall not exceed that allowed and deducted for the same operation in the exchange of unrefined for refined bullion.

SEC. 3547. To secure a due conformity in the gold and silver coins to their respective standards of fineness and weight, the judge of the district court for the eastern district of Pennsylvania, the Comptroller of the Currency, the assayer of the assay-office at New York, and such other persons as the President shall, from time to time, designate, shall meet as assay-commissioners, at the Mint in Philadelphia, to examine and test, in the presence of the Director of the Mint, the fineness and weight of the coins reserved by the several mints for this purpose, on the second Wednesday in February, annually, and may continue their meetings by adjournment, if necessary. If a majority of the commissioners fail to attend at any time appointed for their meeting, the Director of the Mint shall call a meeting of the commissioners at such other time as he may deem convenient. If it appears by such examination and test that these coins do not differ from the standard fineness and weight by a greater quantity than is allowed by law, the trial shall be considered and reported as satisfactory. If, however, any greater deviation from the legal standard or weight appears, this fact shall be certified to the President; and if, on a view of the circumstances of the case, he shall so decide, the officers implicated in the error shall be thenceforward disqualified from holding their respective offices.

SEC. 3548. For the purpose of securing a due conformity in weight of the coins of the United States to the provisions of this Title, the brass troy-pound weight procured by the minister of the United States at London, in the year eighteen hundred and twenty-seven, for the use of the Mint and now in the custody of the Mint at Philadelphia, shall be the standard troy pound of the Mint of the United States, conformably to which the coinage thereof shall be regulated.

SEC. 3549. It shall be the duty of the Director of the Mint to procure for each mint and assay-office, to be kept safely thereat, a series of standard weights corresponding to the standard troy pound of the Mint of the United States, consisting of a one-pound weight and the requisite subdivisions and multiples thereof, from the hundredth part of a grain to twenty-five pounds. The troy weights ordinarily employed in the transactions of such mints and assay-offices shall be regulated according to the above standards at least once in every year, under the inspection

Payment in money to depositors when value ascertained.

*Ibid.*, s. 47, p. 431.

Exchange of unparted bullion for fine bars.

*Ibid.*, s. 46, p. 431.

Appointment and meeting of assay-commissioners.

*Ibid.*, s. 48, p. 432.

Standard troy pound for the regulation of coinage.

*Ibid.*, s. 49, p. 432.

Standard weights for mints and assay offices.

*Ibid.*, s. 50, p. 432.

of the superintendent and assayer; and the accuracy of those used at the Mint at Philadelphia shall be tested annually, in the presence of the assay-commissioners, at the time of the annual examination and test of coins.

Yearly destruction of obverse working-dies.

SEC. 3550. The obverse working-dies at each mint shall, at the end of each calendar year, be defaced and destroyed by the coiner in the presence of the superintendent and assayer.

Ibid., s. 51, p. 432.

National and other medals may be struck at Mint at Philadelphia.

SEC. 3551. Dies of a national character may be executed by the engraver, and national and other medals struck by the coiner of the Mint at Philadelphia, under such regulations as the superintendent, with the approval of the Director of the Mint, may prescribe. Such work shall not, however, interfere with the regular coinage operations, and no private medal dies shall be prepared at any mint, or the machinery or apparatus thereof be used for that purpose.

Money arising from charges and deductions to be covered into Treasury.

SEC. 3552. The moneys arising from all charges and deductions on and from gold and silver bullion and the manufacture of medals, and from all other sources, except as provided by this Title, shall, from time to time, be covered into the Treasury, and no part of such deductions or medal charges, or profit on silver or minor coinage, shall be expended in salaries or wages. All expenditures of the mints and assay-offices, not herein otherwise provided for, shall be paid from appropriations made by law on estimates furnished by the Secretary of the Treasury.

Ibid., s. 53, p. 432.

Business of assay-office at New York.

SEC. 3553. The business of the United States assay-office at New York shall be in all respects similar to that of the mints, except that bars only, and not coin, shall be manufactured therein; and no metals shall be purchased for minor coinage. All bullion intended by the depositor to be converted into coins, of the United States, and silver bullion purchased for coinage, when assayed, parted, and refined, and its net value certified, shall be transferred to the Mint at Philadelphia, under such directions as shall be made by the Secretary of the Treasury, at the expense of the contingent fund of the Mint, and shall be there coined, and the proceeds returned to the assay-office. And the Secretary of the Treasury is hereby authorized to make the necessary arrangements for the adjustment of the accounts upon such transfers between the respective offices.

Ibid., s. 54, p. 433.

Appointment of officers at New York.

SEC. 3554. The officers of the assay-office at New York shall be a superintendent, an assayer, and a melter and refiner; each of whom shall be appointed by the President, by and with the advice and consent of the Senate.

Ibid.

Duties, &c., of officers at New York.

SEC. 3555. The duties of the superintendent, the assayer, and the melter and refiner of the assay-office at New York shall correspond to those of superintendents, assayers, and melters and refiners of mints; and all the provisions of this Title relating to mints and their officers, the duties and responsibilities of such officers, and others employed therein, the oaths to be taken, and the bonds and sureties to be given by them, shall extend, as far as the same may be applicable, to the assay-office at New York, and to its officers, clerks, and employes.

Ibid., s. 55, p. 433.

Salaries of officers at New York.

SEC. 3556. The officers of the assay-office at New York shall be entitled to the following salaries:

Ibid., s. 56, p. 433.

First. The superintendent, to four thousand five hundred dollars a year.

Second. The assayer, to three thousand dollars a year.

Third. The melter and refiner, to three thousand dollars.

Appointment and salaries of assistants and employes at New York.

SEC. 3557. The appointment and compensation of assistants, clerks, and workmen in the assay-office at New York shall be regulated in the same manner as is prescribed in regard to mints.

Ibid.

Business of mint at Denver and of assay-offices at

SEC. 3558. The business of the mint of the United States at Denver, while conducted as an assay-office, that of the United States assay-office at Boise City, and that of any other assay-offices hereafter established,

shall be confined to the receipt of gold and silver bullion, for melting and assaying, to be returned to depositors of the same, in bars, with the weight and fineness stamped thereon.

SEC. 3559. The officers of the assay-offices embraced by the preceding section shall be, when their respective services are required, an assayer and a melter; each of whom shall be appointed by the President, by and with the advice and consent of the Senate. Their salaries shall not exceed two thousand five hundred dollars a year each.

SEC. 3560. The assayer at each of the assay-offices embraced by section thirty-five hundred and fifty-eight, shall have general charge of the office; and may employ, under the direction of the Director of the Mint, such clerks, workmen, and laborers as may be authorized therefor by law; and shall discharge the duties of disbursing agent for the expenses of the office under his charge. The salaries paid to clerks shall not exceed one thousand eight hundred dollars a year each. Workmen and laborers shall receive such wages as are customary according to their respective stations and occupations.

SEC. 3561. Each officer and clerk appointed at either of the assay-offices embraced by section thirty-five hundred and fifty-eight shall, before entering upon the duties of his office, take an oath pursuant to the provisions of Title XIX, "PROVISIONS APPLYING TO SEVERAL CLASSES OF OFFICERS," and shall give a bond to the United States, with one or more sureties, satisfactory to the Director of the Mint or to one of the judges of the supreme court of the State or Territory in which the office to which he is appointed is located, conditioned for the faithful performance of his duties. [Sec §§ 1756, 1757.]

SEC. 3562. All provisions of law for the regulation of mints, the government of officers and persons employed therein, and for the punishment of all offenses connected with mints or coinage, shall extend to all assay-offices, as far as applicable. [Sec § 5460.]

SEC. 3563. The money of account of the United States shall be expressed in dollars or units, dimes or tenths, cents, or hundredths, and mills or thousandths, a dime being the tenth part of a dollar, a cent the hundredth part of a dollar, a mill the thousandth part of a dollar; and all accounts in the public offices and all proceedings in the courts shall be kept and had in conformity to this regulation.

SEC. 3564. The value of foreign coin as expressed in the money of account of the United States shall be that of the pure metal of such coin of standard value; and the values of the standard coins in circulation of the various nations of the world shall be estimated annually by the Director of the Mint, and be proclaimed on the first day of January by the Secretary of the Treasury.

SEC. 3565. In all payments by or to the Treasury, whether made here or in foreign countries, where it becomes necessary to compute the value of the sovereign or pound sterling, it shall be deemed equal to four dollars eighty-six cents and six and one-half mills, and the same rule shall be applied in appraising merchandise imported where the value is, by the invoice, in sovereigns or pounds sterling, and in the construction of contracts payable in sovereigns or pounds sterling; and this valuation shall be the par of exchange between Great Britain and the United States; and all contracts made after the first day of January, eighteen hundred and seventy-four, based on an assumed par of exchange with Great Britain of fifty-four pence to the dollar, or four dollars forty-four and four-ninths cents to the sovereign or pound sterling, shall be null and void.

SEC. 3566. All foreign gold and silver coins received in payment for moneys due to the United States shall, before being issued in circulation, be coined anew.

SEC. 3567. The pieces commonly known as the quarter, eighth, and sixteenth of the Spanish pillar-dollar, and of the Mexican dollar, shall be receivable at the Treasury of the United States, and its several offices, and at the several post-offices and land-offices, at the rates of valua-

Boise City and Charlotte.

Ibid., s. 57.

Appointment of officer at Denver, Boise City, and Charlotte.

Ibid., s. 57, p. 433.

Powers and duties of assayers at assay-offices.

Ibid., ss. 57, 58, p. 433.

Compensation of employes.

Bond and oath of officers and clerks.

Ibid., s. 58, p. 433.

Laws relating to mints extended to assay-offices.

Ibid., s. 60, p. 434.

Decimal system established.

2 April, 1792, c. 16, s. 20, v. 1, p. 250.

Value of foreign coins, how ascertained.

3 March, 1873, c. 268, v. 17, s. 1, p. 602.

Value of the sovereign or pound sterling.

Ibid., s. 2, p. 603.

Recoinage of foreign coins.

9 Feb., 1793, c. 5,

56, s. 2, v. 11, p. 163.

Spanish and Mexican coins.

21 Feb., 1857, c. 56, s. 1, v. 11, p. 163.

s. 3, v. 1, p. 301. 21 Feb., 1857, c.

tion following: the fourth of a dollar, or piece of two reals, at twenty cents; the eighth of a dollar, or piece of one real, at ten cents; and the sixteenth of a dollar, or half-real, at five cents.

Their transmission for re-coinage.

21 Feb., 1857, c. 56, s. 2, v. 11, p. 163.

SEC. 3568. The Director of the Mint, with the approval of the Secretary of the Treasury, may prescribe such regulations as are necessary and proper, to secure the transmission of the coins mentioned in the preceding section to the Mint for recoinage, and the turn or distribution of the proceeds thereof, when deemed expedient, and may prescribe such forms of account as are appropriate and applicable to the circumstances. The expenses incident to such transmission or distribution, and of recoinage, shall be charged against the account of silver profit and loss, and the net profits, if any, shall be paid, from time to time, into the Treasury.

Use of the metric system authorized.

28 July, 1866, c. 301, s. 1, v. 14, p. 339.

SEC. 3569. It shall be lawful throughout the United States of America to employ the weights and measures of the metric system; and no contract or dealing, or pleading in any court, shall be deemed invalid or liable to objection because the weights or measures expressed or referred to therein are weights or measures of the metric system.

Authorized tables of weights and measures.

28 July, 1866, c. 301, s. 2, v. 14, pp. 339, 340.

SEC. 3570. The tables in the schedule hereto annexed shall be recognized in the construction of contracts, and in all legal proceedings, as establishing, in terms of the weights and measures now in use in the United States, the equivalents of the weights and measures expressed therein in terms of the metric system; and the tables may lawfully be used for computing, determining, and expressing in customary weights and measures the weights and measures of the metric system.

MEASURES OF LENGTH.

Metric denominations and values.		Equivalents in denominations in use.
Myriameter .....	10, 000 meters.	6. 2137 miles.
Kilometer .....	1, 000 meters.	0. 62137 miles, or 3,280 feet and 10 inches.
Hectometer .....	100 meters.	328 feet and 1 inch.
Dekameter .....	10 meters.	39. 7 inches.
Meter .....	1 meter.	39. 37 inches.
Decimeter .....	$\frac{1}{10}$ of a meter.	3. 937 inches.
Centimeter .....	$\frac{1}{100}$ of a meter.	0. 3937 inches.
Millimeter .....	$\frac{1}{1000}$ of a meter.	0. 0394 inches.

MEASURES OF CAPACITY.

Metric denominations and values.			Equivalents in denominations in use.	
Names.	Num. of liters.	Cubic measure.	Dry measure.	Liquor or wine measure.
Kiloliter, or stere.	1, 000	1 cubic meter. ....	1. 308 cub. yards. ....	264. 17 gallons.
Hectoliter ..	100	$\frac{1}{10}$ of a cubic meter..	2 bushels and 3.35 pecks. ....	26. 417 gallons.
Dekaliter ...	10	10 cubic decimeters ..	9. 08 quarts. ....	2. 6417 gallons.
Liter .....	1	1 cubic decimeter ..	0. 908 quarts. ....	1. 0567 quarts.
Deciliter ...	$\frac{1}{10}$	$\frac{1}{10}$ of a cub. decimeter.	6. 1022 cub. inch ...	0. 845 gills.
Centiliter ..	$\frac{1}{100}$	10 cubic centimeters.	0. 6102 cub. inch ...	0. 338 fluid ounces.
Milliliter ...	$\frac{1}{1000}$	1 cubic centimeter..	0. 061 cub. inch ...	0. 27 fluid drams.

MEASURES OF SURFACE.

Metric denominations and values.		Equivalents in denominations in use.
Hectare .....	10, 000 square meters.	2. 471 acres.
Are .....	100 square meters.	119. 6 square yards.
Centare .....	1 square meter.	1550 square inches.

## WEIGHTS.

Metric denominations and values.			Equivalents in denominations in use.
Names.	Number of grams.	Weight of what quantity of water at maximum density.	Avoirdupois weight.
Millier or tonneau.....	1,000,000	1 cubic meter.....	2204.6 pounds.
Quintal.....	100,000	1 hectoliter.....	220.46 pounds.
Myriagram.....	10,000	10 liters.....	22.046 pounds.
Kilogram or kilo.....	1,000	1 liter.....	2.2046 pounds.
Hectogram.....	100	1 deciliter.....	3.5274 ounces.
Dekagram.....	10	10 cubic centimeters.....	0.3527 ounces.
Gram.....	1	1 cubic centimeter.....	15.432 grains.
Decigram.....	$\frac{1}{10}$	$\frac{1}{10}$ of a cubic centimeter.....	1.5432 grains.
Centigram.....	$\frac{1}{100}$	10 cubic millimeters.....	0.1543 grains.
Milligram.....	$\frac{1}{1000}$	1 cubic millimeter.....	0.0154 grains.