“Customs duty incentives and their effects on customs revenue mobilization: the case of Zimbabwe (2009-2014)”

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Customs duty incentives and their effects on customs revenue mobilization: the case of Zimbabwe (2009-2014)

Abstract

This paper analyzes the effects of customs duty incentives on customs revenue mobilization for the period 2009 to 2014. It employs both cross-sectional and panel data regression analysis using firm-level data obtained for a sample of 35 firms in Zimbabwe’s mining sector. The data were collected from Zimbabwe Revenue Authority’s Asycuda World System. The results from the two separate models confirm that customs duty incentives (rebates and preferential tariff rates) had negative effects on customs revenues for the period 2009 to 2014. The study, therefore, recommends an urgent need to streamline customs duty incentives granted to importers of goods meant for use in the mining sector.

Keywords: Customs duty incentives, mining sector, rebates, preferential tariff rates, Zimbabwe.

JEL Classification: H2, H3, H5.

Introduction

Zimbabwe’s fiscal policy is characterized by the existence of rampant tax incentives. However, these vast tax incentives are not translating into improved revenue collections, let alone better performance of those companies who are their recipients. There are companies which, after having enjoyed tax incentives for years, ended up closing shop in Zimbabwe, before the country reaped any positive benefits from them. The mining sector, with its vast resource endowments, is not contributing enough in terms of fiscal revenue.

Objectives. The study evaluates the effects of customs duty incentives available in Zimbabwe’s mining sector. Customs duty incentives were evaluated in terms of their effects on exchequer revenue mobilization. Specifically, the objectives were as follows:

♦ To explore the nature of customs duty incentives available in Zimbabwe’s mining sector.
♦ To evaluate the effects of customs duty incentives (rebates and preferential tariff rates) on customs duty collections for the period 2009 to 2014
♦ To analyze the relationship between imports’ values and customs duty collections for the period 2009 to 2014.

Research questions. The key research questions were as follows:

♦ What are the general customs duty incentives and those specific to the mining sector of Zimbabwe?
♦ What are the effects of customs duty incentives on exchequer revenue mobilization?

♦ What is the relationship between customs duty and other trade taxes like Value Added Tax on imports?
♦ What is the relationship between customs duty and imports’ values in Zimbabwe’s mining sector?

Justification of the study. The study is essential for tax policy reform. The country is in a policy dilemma with regards to which mining model to adopt after realizing that the current mining taxation regime has done more harm than good for the economy. However, in the absence of empirical justification policy makers would find it difficult to adopt any new model for taxing the mining sector. The paper, therefore, intended to provide empirical evidence for scrapping or maintaining the existing customs duty regime in the mining sector.

There are also gaps that need to be filled in the literature on tax incentives, especially in developing economies like Zimbabwe. Due to lack of firm level data, most of the previous studies have covered a broad spectrum of tax incentives for a group of countries within a particular trading bloc, for example, Southern African Development Community (SADC) rather than concentrating on the intricacies of the tax system within a specific country. In addition, previous studies concentrated on Corporate Tax incentives, saying little about trade tax incentives. The study employed cross sectional and panel data regression analysis using firm level data obtained from Zimbabwe Revenue Authority’s Asycuda World System.

Study outline. The paper is structured as follows: section 1 provides the background to the study, focusing on the general structure of customs Tariffs as well as customs duty rebates specific to the mining sector in Zimbabwe. Section 2 presents theoretical and empirical overviews of the literature on tax incentives. Section 3 presents the panel data and cross sectional regression analysis that were used in the study. The results of the estimated models are also presented and discussed in this Section. Final section concludes the study with a discussion of findings and policy recommendations.

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The results of the study reflect views of the author alone.
Acknowledgements to the “African Economic Research Consortium (AERC)” in Nairobi, Kenya who have awarded to the author a research grant to carry out the study.
1. Background to the study

1.1. The structure of customs duty rates in Zimbabwe. Rates of customs duty, excise duty and surtax are set by the Minister of Finance and Economic Development by statutory instruments. The Minister of Finance and Economic Development’s mandate is derived from the Customs & Excise Act Chapter 23:02. The Minister can also prescribe, by way of regulations, any suspension, drawback, rebate, remission or refund of duty as may be deemed convenient. The Competition and Tariffs Commission, through the Minister of Industry and Commerce, advises the Minister of Finance and Economic Development on the setting of tariff rates and the granting of exemptions or concessions. The rates of Customs duty can be classified into most favored nations (MFN), preferential tariffs, rebates, remissions and suspensions. These are analyzed below.

1.1.1. MFN rates. Zimbabwe grants most favored nations (MFN) status to all its trading partners, including those that are not World Trade Organization (WTO) members. In 2011, the applied MFN customs tariff which was based on the 2007 version of the Harmonized Commodity Description and Coding System (HS) comprised 5,932 lines at the 8-digit level. Almost 94% of all tariff lines, including duty-free ones, had ad valorem rates, the remaining 6.1% carried either specific or compound rates. Most non-ad valorem duties applied to certain imports of alcoholic beverages, tobacco, apparel and footwear.

Rates of customs duty varied depending on the nature of the product. The rates ranged from 0% to 60% of Value for Duty Purposes. Capital goods attracted lower rates of duty, usually between 0% and 5%. On the other hand, raw materials attracted duty rates of between 5% and 10%. Finished goods attracted rates of duty ranging above 10% to 60%.

Figure 1 shows a breakdown of the MFN tariff rates for the year 2011. About 36% of the imports were in the 0 to 5% tariff rates, while almost 10% of the imports did not pay any duty. On the other hand, 19% of the imports were levied customs duty at the rates of 35 to 40%.

Fig. 1 Breakdown of Zimbabwe’s applied MFN tariff rates in 2011

Source: Adapted from the World Trade Organization 2011 Report on Zimbabwe.

1.1.2. Preferential rates. Zimbabwe offers tariff preferences under bilateral and regional trade agreements. These trade agreements aim to encourage trade between Zimbabwe and the cooperating partner through the elimination of tariffs and non-tariff barriers to trade. The agreement allows the Zimbabwean buyers to purchase goods from the cooperating countries without paying import duty (or paying duty at an agreed lower rate), as long as the goods qualify under the terms of the agreement and are registered with the Zimbabwe Revenue Authority.

Zimbabwe has bilateral trade agreements with Botswana, Namibia, Malawi, Mozambique and South Africa. The Botswana agreement was ratified in 1988, and involves reciprocal duty free trade on all products grown, wholly produced, or manufactured wholly or partly from imported inputs subject to a 25 percent local content requirement. The Namibia agreement was in effect since 1992, subject to rules of origin which require at least 25 percent local content for manufactured goods. The Malawi agreement was implemented in 1995, with 25 percent local content. The Mozambique agreement was signed in January 2004, and became operational on 1 March 2005. Its objective is to eliminate tariff and non-tariff barriers and also to cooperate in customs and trade promotion.

Zimbabwe is also a member of multilateral trade agreements. Zimbabwe is a member of Common Market for Eastern and Southern Africa (COMESA), which is a regional grouping of eastern and southern Africa states established in 1994. The main objective of COMESA is to achieve economic prosperity through regional integration, particularly in trade, customs, monetary affairs, transport, industry and agriculture. Zimbabwe also belongs to the Southern
Ara Development Community (SADC) regional grouping.

1.1.3. Rebates, remissions and suspensions. Rebates and suspension of duty are granted in terms of the Customs and Excise Act Chapter: 23.02, Customs and Excise (General) Regulations (2001) and Customs and Excise (Suspension) (Amendment) Regulations (2010). A rebate of duty is a waiver of the duty payable.

According to statistics from the World Trade Organization on Zimbabwe, rebates and suspensions were granted to 23.3% of the total value of imports recorded in 2009. In 2010, rebates and suspensions amounted to 18.6% of the value of imports. The total revenue forgone in the implementation of these schemes was US$ 253.8 million in 2009 and US$ 318.3 million in 2010 (World Trade Organization, 2011). In both years, about 42.8% of all tariff lines recorded some concessionary imports. These figures make a strong case for tariff reform in Zimbabwe (WTO, 2011).

A duty drawback scheme has been in place in Zimbabwe since 1991. It provides for the refund of all duties paid on imported inputs used in the manufacturing or processing of goods for export (industrial drawback), and on unused goods exported in the form in which they were imported (same state drawback). An inward processing rebate scheme has been operational in Zimbabwe since 1992. It allows registered exporters to import or take out of bond, without payment of duty, goods destined for use in the processing of exports. Duties become payable if the finished goods have not been exported within 1 year (WTO, 2011).

A rebate of duty is granted on goods re-imported into Zimbabwe in the same condition as at the time of their exportation. Articles exported from Zimbabwe for the purpose of being repaired are subject to duty on re-importation, unless the repair was done free of charge in terms of a valid guarantee. When specified articles are imported or taken out of bond by a person engaged in mining, they are also exempted from paying customs duty. In 2011, after treasury was inundated by mining companies that sought to have their mining locations gazetted for purposes of benefiting from the rebate of duty on specific mining development operations, the rebate of duty was replaced by exemption from duty, whereby VAT is payable (Budget Statement, 2011).

Goods that are imported for prospecting and searching for mineral deposits are also exempted from paying duty. The goods should be imported by a person who has entered into a contract with the Government, i.e., a person with exploration title in order for one to qualify for the rebate. A rebate of duty may also be granted on goods imported in terms of an agreement entered in pursuant to a Special Mining Lease. A rebate of duty may also be granted on goods imported temporarily for an approved project. Lastly, a rebate of duty can be granted on goods for incorporation in the construction of approved projects.

Table 1 summarizes the rebates applicable in the mining sector upon importation. The table also shows the revenue that was forgone for the period 2009 to 2011 as a result of granting these rebates in the mining sector.

<table>
<thead>
<tr>
<th>CPC</th>
<th>Nature of rebate</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>412</td>
<td>Specified goods for mining industry for exploration</td>
<td>2.0</td>
<td>1.9</td>
<td>0.4</td>
</tr>
<tr>
<td>413</td>
<td>Goods imported for specified use in mining industry</td>
<td>5.8</td>
<td>13.1</td>
<td>5.2</td>
</tr>
<tr>
<td>415</td>
<td>Goods imported for petroleum exploration</td>
<td>0.03</td>
<td>3.9</td>
<td>3.7</td>
</tr>
<tr>
<td>429</td>
<td>Goods for incorporation for approved projects</td>
<td>7.5</td>
<td>20.3</td>
<td>9.2</td>
</tr>
<tr>
<td>449</td>
<td>Goods imported for specific mining development operations</td>
<td>43.4</td>
<td>18.2</td>
<td>4.2</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>57.4</td>
<td>22.7</td>
<td></td>
</tr>
</tbody>
</table>

Source: Statistics extracted from ZIMRA Automated System of Customs Data (Asycuda).

In 2011, the rebate of duty on goods imported for mining development operations was replaced by an exemption from duty, whereby VAT was payable. Table 1 depicts very low revenue forgone in 2011 as compared to 2010 and 2009. It would be worthwhile to investigate why the revenue forgone is so low in 2011, as compared to previous years. From Table 1, it is clear that the Customs Procedure Code (CPC) that was negatively affected to a greater extent was 449 which relates to goods imported for specific mining development operations. The Minister’s move to exempt only customs duty and make VAT payable had a huge impact on the CPC. Customs duty worth only US$ 4.2 million qualified for a waiver under that rebate in 2011, as compared to US$ 43.4 million and US$ 18.2 million in 2009 and 2010, respectively.

2. Theoretical and empirical overviews

2.1. Theoretical literature survey. Tax incentives have been classified into Value Added Tax, Corporate Income Tax, Property Tax, customs duty, tax holidays, depreciation allowances, grants, enhanced deductions and special initial allowances (Boura et al., 2006). The debate on the effects of tax incentives is well established, but still inconclusive. There are studies that claim that tax incentive effects are diverse (Hubbert and Pain, 2002). Other studies claim that they are immaterial (Head et al., 1995; Shah,
The effects of customs duty reductions and/or remov-
als can be traced back to Adam Smith (Baldwin, 2009). He postulated that, when a nation exempts the
goods of a country from duties, the merchants and
manufacturers of the beneficiary country derive
great advantage. Some papers focus on effects of
tariff reductions on revenue performance, arguing
that they lead to loss of revenues (Agbeyegbe et al.,
2004; Cage & Gadenne, 2014). Other researchers
argue that the final effect of tariff reductions on rev-
ue collections is not so obvious, but depends on the
price elasticity of import demand (Cirera et al.,
2011), initial structure of tariffs (Kowalski, 2005),
tax system’s administrative capabilities (Keen &
Ligthart, 2002). The impact of tariff policy is more
complicated under constrained prices than under
argues that there are challenges in trying to assess
tax exemptions in some African states due to un-
availability and unreliability of data. However, cus-
toms duty exemptions have been harmful to African
countries’ economies, and should, therefore, be
streamlined (ibid).

2.2. Empirical literature review. Some empirical
studies relied on panel data regression analysis to
determine the effects of tax incentives on various
aspects. Agbeyegbe et al. (2004) analyzed the rela-
tionship between tariff reductions and revenues for a
panel of 22 countries in sub-Saharan Africa in 1980-
1996. They concluded that trade liberalization does
not have a significant effect on overall tax revenue.
Bora (2013) analyzed the effects of customs duty
incentives on foreign direct investment in Ethiopia.
Using a panel of ten sectors for the period from
1992 to 2012, she found out that customs duty ex-
ceptions had a negative impact on three sectors,
namely construction, electricity and water supply.
Hayakawa et al. (2015) examined the impact of free
trade agreement schemes on import prices using firm
level data from Thailand for the period 2007 to
2011. One essential finding of the study was that the
use of free trade area schemes raised import prices.

There are empirical studies that have confirmed that
tariff reductions led to customs revenue losses (Cage
& Gadenne, 2014; Mugano et al., 2013; Irwin,
1998). Southern & Eastern Africa Trade & Negotia-
tion Institute (2012) cited the African Development
Bank’s report which estimated that Uganda lost at
least 2% of its gross domestic product from tax in-
centives. The study concluded that the tax exemption
policy in Uganda was substantially reducing the
fiscal space and was, therefore, a serious challenge
to revenue mobilization. Kigen (2011) analyzed the
effects of tax incentives on exchequer revenue mobi-
lization, using a sample of 25 firms in Kenya. The
study findings were that tax incentives accounted
for 0.6% of the total gross domestic product and 5%
of actual tax revenues collected per annum.

On the contrary, other studies do not confirm that
tariff reductions automatically result in correspond-
ing revenue losses. Samuel (2015) used a partial equi-
librium model to perform simulations on Uganda’s
trade and revenue effects with the East Africa
Community (EAC) countries, Democratic Republic
of Congo and Sudan. The researcher concluded that
the revenue implications of changes of applied tariff
rates depend on the applied tariffs on imports. High
rates show larger revenue effects, while low tariff
rates show lower revenue effects. Mayende (2013)
examined the effects of customs duty exemptions
on firm performance in Uganda’s manufacturing
sector. Using panel data techniques for the period
from 2000 to 2002, the study’s main finding was
that tax incentives had positive impact on firm
performance.

3. Research methodology

3.1. Choice of methodology. The paper relies on
both panel data and cross-sectional econometrics
methodologies for analyzing customs duty incen-
tives. Panel data methodology was chosen, because
it involves two dimensions, a cross-sectional dimen-
sion N, and a time series dimension T. At first, the
researcher expected that the computation of panel
data estimates would be more complicated than the
analysis of cross-sectional alone (where T = 1) or
time-series data alone (where N= 1). However, the
availability of panel data actually simplified the
computation and inference. Panel data regression
analysis was also favored, because the data were for
a short period (six years) which was not very suitable
for running regressions on time series data. Regres-
sions for time series data usually require longer
trends, i.e., data over longer periods of time.

Panel data gave the researcher a large number of data
points (N*T), increasing the degrees of freedom and
reducing the collinearity among explanatory var-
iables, hence, improving the efficiency of econo-
metric estimates. It allowed control of heterogeneity of the cross-sectional units. It is expected that each cross-sectional unit has some intrinsic and immeasurable characteristics distinguishing it from others. Panel data also allowed better analysis of dynamic adjustments and it had increased precision of regression estimates (Wooldridge, 2002; Baum, 2006). Thus, longitudinal data allowed the researcher to analyze a number of important economic questions that could not be addressed using cross-sectional or time-series data.

Cross sectional regressions were run on the individual annual data sets as an alternative methodology. This was done with a view of comparing and confirming the plausibility of panel data regression results.

3.2. Data collection. While the study employed some of the variables used in previous studies, it digressed from previous studies by introducing panel data and cross sectional regression analysis at firm level and within a single specific sector. This rich firm level (micro) data was extracted from the ASYCUDA system that stores trade statistics for the Zimbabwe Revenue Authority. The panel data set used in the first model involved a sample of 35 companies in the Large Clients Office (LCO) for the period 2009 to 2014.

From the panel data set, the researcher also extracted cross-sectional data sets for each of the different specific years, and cross sectional regressions were run for comparability with the panel data results.

3.3. Models’ specifications. Cross-sectional and panel data regressions were done in order to evaluate customs duty incentives’ effects on revenue mobilization. The regression models are specified below:

Model 1 (panel data): effects of customs duty incentives on revenue mobilization

\[ cd_i = a_0 + \beta_1 vdp_i + \beta_2 cdr_i + \beta_3 vat_i + \beta_4 rr_i + Ui + Vit \]

where:

- \( cd_i \) is the variable capturing the individual firm’s customs duty revenue;
- \( a_0 \) is the intercept;
- \( vdp_i \) represents the value of imports for the individual firms;
- \( cdr_i \) is the customs duty incentives granted to the firms;
- \( vat_i \) is the annual Value Added Tax paid on importation;
- \( rr_i \) is the royalty rate applicable to the individual firms;
- \( Ui \) denotes the individual firm specific effect;
- \( Vit \) is the orthogonal error term;
- \( \beta_1, \beta_2, \beta_3 \) and \( \beta_4 \) are parameters to be estimated. The data were converted to logs and the results would be interpreted as elasticities.

Model 2 (cross-sectional): effects of customs duty incentives on revenue mobilization

\[ cd_i = a_0 + \beta_1 vdp_i + \beta_2 cdr_i + \beta_3 vat_i + \beta_4 rr_i + Ui. \]

The description of the variables is the same as in Model 1.

3.4. Justification for the choice of variables and expected results. Customs duty (cd) is levied on imports at point of entry. Together with Excise Duty and VAT on imports, they indicate the revenue obtained from international trade, also referred to as trade tax. The customs duty variable was the dependent variable in the model.

When charging customs duty, customs administrations do not just consider the invoice value of the product. They factor in cost of freight and insurance to the invoice value. The Value for Duty Purposes (vdp) is the imports value. Ceteris paribus, the higher the value for duty purposes, the higher the customs duty. We, therefore, expected a positive and statistically significant relationship between customs duty and vdp.

Customs duty incentives (cdr) variable represents the customs duty incentive granted to the individual firms. A firm can be exempted from customs duty through preferential rates. These could be as per bilateral or multilateral trade agreements between nations. A firm can also be exempted from paying customs duty through the granting of rebates. The variable, therefore, indicates the amount of duty that was waived for the specific individual firms due to preferential rates and rebates. We expected a negative relationship between customs duty and customs duty incentives, in line with economic theory.

Value Added Tax on imports (vat) is another trade tax levied on imports. The base for VAT is Value for Tax Purposes (vtp). Value for Tax Purposes is calculated as Value for Duty Purposes (vdp) plus customs duty. We expected an increase in customs duty to have a corresponding increase in VAT in line with economic theory. On the contrary, Agbeyegbe et al. (2004) argue that where import values remain unchanged, a reduction in tariffs reduces revenue from trade taxes and can, consequently, reduce VAT on imports and Excise Duty.

Mineral Royalty rates (rr2) indicate a revenue outflow from the firm’s coffers and the higher the rate of royalty, the higher the revenue outflow. A firm paying higher royalties may eventually import less than a firm that is being levied lower royalties. We, therefore, expected a negative relationship between the royalty rate and customs revenue, in line with economic theory.

3.5. Model estimations and results. 3.5.1. Results from panel data regression analysis. Descriptive statistics are a summary of the data used in the
study. This study used 210 observations for the variables from the 35 firms under study and it is a balanced panel. Table 2 shows results from the panel data regression analysis. The data were converted into logarithms and the results would, thus, be interpreted as elasticities. L stands for the logarithms of the respective variables.

Table 2. OLS, FE & RE Model 1 results with Dependent variable LVR

<table>
<thead>
<tr>
<th>Variables</th>
<th>OLS</th>
<th>Fixed effects</th>
<th>Random effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lvdp</td>
<td>0.5554***</td>
<td>0.5486***</td>
<td>0.5441***</td>
</tr>
<tr>
<td></td>
<td>(0.0705)</td>
<td>(0.0702)</td>
<td>(0.0685)</td>
</tr>
<tr>
<td>Lcdr</td>
<td>-0.1013***</td>
<td>-0.0921***</td>
<td>-0.0907***</td>
</tr>
<tr>
<td></td>
<td>(0.3441)</td>
<td>(0.0333)</td>
<td>(0.0326)</td>
</tr>
<tr>
<td>Lvat</td>
<td>0.5902***</td>
<td>0.5837***</td>
<td>0.5873***</td>
</tr>
<tr>
<td></td>
<td>(0.0671)</td>
<td>(0.0651)</td>
<td>(0.0639)</td>
</tr>
<tr>
<td>Lr2</td>
<td>-0.0346</td>
<td>-0.0473</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.0839)</td>
<td>(0.1568)</td>
<td></td>
</tr>
<tr>
<td>R-squared</td>
<td>0.89</td>
<td>0.90</td>
<td>0.90</td>
</tr>
<tr>
<td>F-statistic</td>
<td>311.25***</td>
<td>356.38***</td>
<td>1162.92***</td>
</tr>
<tr>
<td>Wald chi 2</td>
<td>-</td>
<td>-</td>
<td>1162.92***</td>
</tr>
<tr>
<td>No. of obs</td>
<td>141</td>
<td>141</td>
<td>141</td>
</tr>
</tbody>
</table>

Key: *** significant at 1%, standard errors in parentheses

3.5.2. Results from cross-sectional regression analysis. A number of cross-sectional regressions were run to model the effect of customs duty incentives. The preferred estimated equation’s results are presented below:

<table>
<thead>
<tr>
<th>Variables</th>
<th>Cross-section regression result</th>
</tr>
</thead>
<tbody>
<tr>
<td>vdp</td>
<td>0.002</td>
</tr>
<tr>
<td></td>
<td>(0.7)</td>
</tr>
<tr>
<td>cdr</td>
<td>-0.41</td>
</tr>
<tr>
<td></td>
<td>(4.11***)</td>
</tr>
<tr>
<td>vat</td>
<td>12.77</td>
</tr>
<tr>
<td></td>
<td>(0.47***)</td>
</tr>
<tr>
<td>r2</td>
<td>-0.13</td>
</tr>
<tr>
<td></td>
<td>(-1.84**)</td>
</tr>
<tr>
<td>R-squared adjusted</td>
<td>0.88***</td>
</tr>
<tr>
<td>F-statistic</td>
<td>62.39***</td>
</tr>
<tr>
<td>No. of obs</td>
<td>35</td>
</tr>
</tbody>
</table>

Key: *** significant at 1%, ** significant at 5%, standard errors in parentheses.

The adopted cross-sectional regression model was overally significant, with an adjusted R-squared of 88% and an F-statistic of 62.39. Cross-sectional regression results further confirmed the negative and statistically significant relationship between customs duty revenues and customs duty incentives. The tax incentive variable (cdr) was significant at 1%. Just like in the panel data regression results, the vat variable was also significant at 1%. Explanations of these variables are similar to those under panel data regression analysis.

4. Findings, policy recommendations and conclusion

4.1. Discussion of findings. Three variables in Model 1 are statistically significant using OLS, Fixed Effects and the Random Effects models. The R-squared of the adopted model is quite high, 0.89 for OLS and 0.90 for both the Fixed Effects and Random Effects. This means that about 90 percent of the variation in the dependent variable is explained by the variations in the explanatory variables. Thus, the whole model is statistically significant.

The Value for Duty Purposes (vdp) variable was statistically significant at all levels for all three models, namely, OLS, FE and RE. The variable was positively related to the customs revenue variable. This finding is consistent with economic theory that Customs duty increases in line with increases in the value of imports. This implies that policies that are geared towards improving import values can have a positive effect on customs revenue mobilization. Agbeyegbe et al. (2004) argue that where import values remain unchanged, a reduction in tariffs reduces revenue from trade taxes.

The customs duty incentive variable (cdr) was negatively related to the customs duty revenue variable (cd), for the Random Effects, Fixed Effects and Ordinary Least Squares models. The variable was also statistically significant at all levels of inference. This finding is consistent with the results in Cage & Gadenne (2014) study. The cited study confirmed that tariff removals and/or reductions had larger and longer lived decreases in revenues for developing countries. The finding is also consistent with economic theory.

Value Added Tax on imports (vat) was also statistically significant at all levels and positively related to the customs duty variable. Normally, we would expect an increase in Customs duty to have a negative effect on VAT on imports, since they are both costs for the same importer (Agbeyegbe et al., 2004). However, in reality, the two were not negatively related. This was due to the fact that both trade taxes depend on the value of imports. If imports value increase for dutiable commodities, the result will be an increase in both VAT and customs duty. Customs duty is levied on VDP while VAT on imports is levied on VTP (i.e., VDP + customs duty). There is a strong relationship between these two bases.

The royalty rate (r2) variable was the only variable that was not statistically significant in all the three models, although it had the expected sign. The variable was negatively related to the customs duty variable, in line with economic theory. The results imply that neither an increase nor reduction in the
rate of mining royalties affect trade taxes, like customs duty. The result could have been different, if the royalty rate was reduced or increased for domestic taxes, like mineral royalties. Domestic tax incentives may show different results from trade tax incentives, depending on the revenue head to influence.

4.2. Policy recommendations. There is a need to streamline the rebates granted to importers of goods meant for use in the mining sector. Our empirical investigation revealed that Government has been losing significant revenue as a result of granting tax concessions in the mining sector. This revenue loss is not in tandem with benefits derived in the mining sector.

It is also recommended that ZIMRA and other relevant arms of Government be vigilant in identifying current beneficiaries of these incentives/rebates. Post clearance audits should be intensified in order to assess whether the rebates are not being abused. There is also a need to confirm whether the beneficiaries are making any significant contributions to other tax heads like Corporate Income Tax, VAT on Local Sales and Pay as You Earn. In cases where beneficiaries of Customs duty incentives are not contributing to other tax/revenue heads, audits should be instituted and severe penalties imposed for non-compliers.

A retrospective tax incentive or rebate system may also be considered whereby for an entity to be granted certain incentives/rebates, they need to have met certain economic benchmarks like number of jobs created, level of production promised, foreign exchange earned and repatriated, infrastructure development and others, for them to then claim the incentive/ rebate value.

Lastly, in the event that Government considers granting new incentives in the future, Government should evaluate the status quo of the current and previous incentives to determine the merits of new ones and their potential benefits to the economy.

Conclusion. Empirical investigations carried out using a sample of 35 firms in Zimbabwe’s mining sector, confirmed that Customs duty incentives were significantly eroding Customs duty revenues. There is an urgent need for policy makers to streamline Customs duty incentives currently applicable in the mining sector, in order to meet Government’s objective of increasing trade tax revenues.

References