Oil and democracy in Russia

Russia is often considered a perfect example of the so-called “resource curse”—the argument that natural resource wealth tends to undermine democracy. Given high oil prices, some observers see the country as virtually condemned to authoritarian government for the foreseeable future. Reexamining various data, I show that such fears are exaggerated. Evidence from around the world suggests that for countries like Russia with an established oil industry, even large increases in the scale of mineral incomes have only a minor effect on the political regime. In addition, Russia—a country with an industrialized economy, a highly educated, urbanized population, and an oil sector that remains majority private-owned—is unlikely to be susceptible to most of the hypothesized pernicious effects of resource dependence.

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Russia is often thought to be a classic case of the so-called “resource curse”—the idea that natural resource wealth tends to impair democracy. Indeed, some see the country as virtually doomed to authoritarian politics by its enormous endowments of oil and gas. “Russia’s future will be defined as much by the geology of its subsoil as by the ideology of its leaders,” writes Moisés Naím, Editor-in-Chief of Foreign Policy magazine, and a former trade and industry minister of petroleum-rich Venezuela. “A lot of oil combined with weak public institutions produces poverty, inequality, and corruption. It also undermines democracy.” The New York Times columnist Tom Friedman sees a close relationship between world commodity prices and the extent of liberty in resource-rich states: a higher oil price means less freedom. Russia, from Gorbachev to Putin, seems to him to fit perfectly.

This view has an immediate plausibility. There is no question that oil and gas have been at the core of Russia’s political economy in recent decades. The plunge in petroleum prices in the 1980s helped create the economic crisis that the last Soviet governments failed to overcome. Surging commodity prices after 1998 coincided with the re-centralization of power

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1 In fact, there are several “resource curse” arguments, asserting respectively that resource wealth: (a) slows economic growth, (b) fosters civil wars, and (c) impairs the quality of governance and erodes democracy. I focus here exclusively on (c).

2 Moisés Naím, “Russia’s Oily Future: Overcoming geology, not ideology, will become Moscow’s greatest challenge,” Foreign Policy, January/February 2004, 94-5.

under Putin, the reassertion of Kremlin control over national television, the spread of credible reports of electoral fraud, and the harrassment of independent social and political organizations. The leading state-controlled oil and gas companies even served as the regime’s favored tool for chipping away at civic freedoms. It was the Kremlin-led gas monopoly Gazprom that, with a mixture of business maneuvers and administrative muscle, took over previously critical media outlets. And it was the state-owned oil company Rosneft that swallowed assets owned by the oligarch Mikhail Khodorokovsky, who had been funding the political opposition and civil society groups.

Still, arguments that seem to fit so well deserve particular scrutiny. Were oil and gas—and the fluctuations in their prices—as central to determining the course of political development in Russia as advocates of this view suggest? If so, by what pathways did the resource curse operate? Is Russia condemned to endure authoritarian government—in the worst case, to degenerate into the kind of oil-fueled autocracy characteristic of the Persian Gulf? In this paper, I briefly examine the evidence for the resource curse worldwide and apply estimates of the effect of resource wealth on political institutions derived from cross-national analysis to Russia.

The evidence is consistent with the claim that Russia would be somewhat more democratic if it had no oil or gas. However, international comparisons also suggest that very little of the variation over time in Russia’s political regime since 1985 can be attributed to changes in its oil and gas income or reserves. When studied systematically, international

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experience suggests that for countries like Russia with an established petroleum industry even large gyrations in oil revenues have a relatively minor impact. The evidence suggests that there is little reason to fear that mineral wealth will cause Russia to sink deep into autocracy even if oil prices rise to unprecedented heights.

1 What do we know about the “oil curse”?

In the last decade, scholars have used statistical methods to test the hypothesis that oil and gas wealth is inimical to democracy. Most believe there is evidence of a statistically significant relationship, although there are some dissenters. At the same time, recognition has been growing that the effects of oil can be quite different in different types of countries and in different periods.

Figure 1 plots the political regimes in 2000-05 of the world’s 32 largest oil and gas producers. I include all countries that in this period had average annual output of oil and gas worth at least $400 per capita at world prices. To classify the countries’ political regimes, I use the ratings of the Polity IV dataset (September 2009 revision), compiled by a team under Monty


6 The data come from Michael Ross, Database on oil and gas income, 2009, UCLA. I am grateful to Ross for sharing this.
Marshall and Keith Jaggers, at George Mason University. The scale runs from -10 to +10. Scores of -10 to -6 represent autocracies, and scores of 6 to 10 represent democracies.

**Figure 1  Political regimes of major oil and gas producers, 2000-05**

![Political regimes of major oil and gas producers, 2000-05](image)

*Average national income per capita from oil and gas, 2000-05, logarithmic scale*

Sources: Michael Ross, Database on oil and gas income, UCLA, 2009; Polity IV, 2009 update. "Muslim world": countries where more than 40 percent of the population were Muslim adherents in 2000 (Barrett 2000 as in Robert Barro, Religion Adherence Dataset, www.economics.harvard.edu/faculty/barro/data_sets_barro.) Major oil and gas producers: where annual income from oil and gas > $400 per capita.

A first point to note is the great variation in types of regime among the major oil producers. Their political systems range from consolidated autocracies (like Saudi Arabia and Qatar) to consolidated democracies (like Norway and Trinidad and Tobago). Moreover, the
pattern looks anything but random. With one exception, the countries fall naturally into four groups. First, there are the highly industrialized countries of Western Europe, North America, and Oceania. Major oil producers in this category such as Norway, Canada, and Denmark are stable liberal democracies. Research confirms that they are not subject to any resource curse. Second, there are the oil-rich states of Latin America such as Venezuela, Mexico, and Trinidad and Tobago. These are also classified by Polity as democracies, although some are closer to the category’s bottom edge. As Dunning has shown, not only is there no evidence of a resource curse in Latin America, there appears to be a resource blessing. The oil-rich countries in that region have actually been more democratic on average than their peers. Dictatorships in Latin America that had oil were more likely to democratize than those that did not. Third, there consists of oil-producers in Sub-Saharan Africa, which are found between -6 and -2 on the 21-point scale, intermediate regimes just above the range of “autocracy.” In this region, scholars have found evidence that greater resource dependence renders democracies more vulnerable. Fourth, there are the countries of the Muslim world. It is striking that all the countries at the bottom of Figure 1 have large Muslim communities. (The converse is not true: some Muslim oil producers like Malaysia are closer to democracy than dictatorship.) Indeed, among the major oil producers, the only ones that Polity classified as autocracies, with scores of -6 or lower, were countries in which Muslim adherents made up

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7 Ross (“Oil and Democracy Revisited,”) finds, for instance, that greater oil and gas income is not associated with a greater chance of democratic failure in countries with income per capita above $5,000.


more than three quarters of the population. Of course, this is merely an observation about the pattern rather than a claim about what causes what. Some evidence presented below suggests that, once all the differences among countries are taken into account, the effects of oil and gas are just as strong in non-Muslim as in Muslim countries.

Finally, there is the one country that does not belong in any of these groups—Russia—which, in Figure 1, appears to blend in with Latin America.

Some simple statistics help to elucidate the patterns in the data. In Table 1, I show a series of regressions of countries’ Polity scores on the natural log of their per capita income from oil and gas. In all regressions, I control for the natural log of countries’ gross domestic product per capita (at purchasing power parity, from the Penn World Tables), since a great deal of work suggests that more developed countries tend to be more democratic. All regressions are run on panels that include all countries for which data were available in the period from 1960 to 2005. To reduce autocorrelation, I follow established practice and use only observations from every fifth year, starting in 1960. In all regressions, I include a full set of year dummies. In models 1 to 9, I also include country fixed effects, which control for any unchanging characteristics of the country. Thus, these regressions pick up the way in which, within given countries, changing levels of oil and gas income correlate over time with the nature of those countries’ political regimes. In models 10-18, I do not include country fixed effects, but include a one-period autoregressive process to correct for autocorrelation. Thus, these models capture both correlations between petroleum income and regimes over time and

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Table 1. Oil and gas income per capita and democracy (dependent variable is Polity score on 21-point scale, from Polity IV 2009 update)

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Sources: Penn World Tables for real GDP per capita (adjusted for purchasing power parity); Polity IV dataset (September 2009 update); Michael Ross dataset on oil and gas income, 2009.
Panels include every fifth year from 1960 to 2005. Full set of year fixed effects included in all regressions (results not shown). Full set of country fixed effects included in models 1-9, standard errors clustered by country. Random effects models adjusted for AR(1) process. * p < .10  b p < .05  c p < .01.
correlations between these variables across countries. Since the correlations across countries may be caused by other factors left out of the regressions, these models may overestimate the true effects of oil.

Columns 1 and 10 show that, looking at all countries for the full period from 1960 to 2005, there is a statistically significant relationship between higher oil and gas income and less democratic government. This is so whether one looks just at change over time (model 1) or both variation over time and across countries (model 10). If one controls for the nature of the regime five years earlier, the effect of oil and gas income is still significant, but only a little more than half as large (models 2 and 11). Thus, the short run effect of an increase in resource income may be smaller than the total effect. Although the effect of oil and gas appears weaker in predominantly Muslim countries if we look at the random effects models (compare the coefficients of -.23 in column 12 and -.52 in column 10), controlling for all countries’ fixed characteristics, more oil and gas income is associated with just as large a decrease in democracy in non-Muslim countries (columns 3 and 1).11

Controlling for country characteristics, and looking at the full period, it is only among very poor countries that oil and gas income correlates over time with less democracy. If one looks also at the cross-country variation, however, the strongest correlation is among countries at intermediate levels of development (GDP per capita at PPP between $5,000 and $15,000). Ross has noted that the relationship between resource wealth and less democracy does not appear in data from before the early 1980s. Up to that point, oil and gas did not appear to have

11 It could be, however, that the fixed effect regressions underestimate the impact of changes in oil and gas income on democracy in Muslim countries because a good number of the major Muslim oil producers were from early on at the bottom of Polity’s scale, with nowhere further to drop.
any negative effect. It was in the “Third Wave” of democracy, which culminated in the East European transition from communism, that major oil producers started to stand out, democratizing less than their oil-poor neighbors. The regressions in Table 1 confirm this. In the fixed effects regressions, there is no effect of oil in the period before 1985, and in the random effects models the earlier effect is weaker (columns 7, 8, 16, and 17).

The impact of oil at different income levels also appears to change after 1985. In the later period, it was actually the countries at intermediate income levels that showed the strongest effect of mineral wealth. I therefore present one final pair of models (columns 9 and 18) that include only countries with intermediate income levels in the post-1985 period. These models show the largest estimated effects of oil and gas income on democracy that I have been able to find by experimenting with different specifications.

In short, the regressions illustrate and confirm the results of earlier work on the relationship between mineral wealth and democracy. Since the early 1980s—but not before that—poor and middle income countries outside Latin America that earned large amounts of income from oil and gas have tended to become less democratic.

2 What does this imply about Russia?

Most of the models in Table 1 suggest a statistically significant negative relationship between petroleum income and democracy. It is difficult to be sure how large the effect is given the wide range of estimates across different specifications. But the pattern of evidence worldwide is
generally consistent with the claim that Russia would be more democratic today if it had no oil or gas at all.

What about the effect of changes in Russia’s oil and gas income since the late Soviet period? Between 1985 and 1998, the value of Russia’s oil and gas output fell from $2,207 per capita to $476 per capita, by Ross’s estimates. By 2006, the value had risen again to $2,765. As many observers have pointed out, the fall and rise in Russia’s oil receipts mirror the rise and fall in political freedom in the country under the consecutive leadership of Gorbachev, Yeltsin, and Putin. Can oil explain Russia’s political trajectory?

The answer appears to be: only a small part of it. The true effect of petroleum income probably lies somewhere within the range defined by the coefficients in the various models of Table 1. It turns out that whichever of these one uses, the implied effect of Russia’s changing oil and gas income is surprisingly small. A low estimate is the coefficient of -.32 in model 1. The highest estimate is the coefficient of -1.58 in model 9. Applying these to the Russian data, the drop in oil and gas earnings after 1985 predicts an increase in Russia’s Polity score of between 0.5 and 2.4 points on the 21-point Polity scale. The increase in oil and gas income after 1998 implies a fall in the country’s Polity score of 0.6 to 2.8 points. Figure 2 shows the predicted path of Russia’s score based on just the variation over time in its oil and gas income.

Clearly, if the experience of other countries is a guide, the ups and downs of Russia’s petroleum income can explain at most a small fraction of the changes in its political regime over the last 25 years. This, too, is consistent with what previous research has shown about the “resource curse”. As Ross pointed out in a seminal article in 2001, the marginal effect of oil on
the political regime falls sharply as the amount of oil produced increases. This is captured here by the modeling of the oil effect in logs. In models with the oil and gas income variable not logged (not shown here), this variable has a perversely positive coefficient in the fixed effects basic model, marginally significant. It is significantly negative in the random effects models. But here too, the implied effect is small. In a version of model 10 with oil and gas income not logged, the estimated coefficient implies that the increase in oil and gas income between 1998 and 2006 should have reduced Russia’s Polity score by just 0.2 points.

Figure 2. Oil and gas income and Russia's political regime, 1985 to 2008

Sources: Author's calculations, using Polity IV (September 2009 update). Polity scores are for USSR in 1985-91, Russia in 1992-08. Predictions made starting from initial Polity score of -7 and adding changes implied by the coefficients on Ln oil and gas income in Table 1, models 1 and 9.

The effects of oil are not always tiny. For a country that starts producing a large amount of oil from scratch, the implied effect on the regime can be sizeable. In Equatorial Guinea, between 1990 and 2005, oil and gas income increased from nothing to $13,674 per capita. Since the country’s GDP per capita started out well below $5,000, I use the estimated coefficient of -.60 from model 4 in Table 1. The model predicts a fall in Equatorial Guinea’s Polity score of almost six points. The diminishing marginal effect of oil also implies an asymmetry worth keeping in mind. Were Russia’s oil and gas income to increase from its present level, the models suggest this would lead to only a very small further deterioration in its politics. By contrast, were Russia’s oil and gas income to dry up completely, the implied increase in democracy would be much larger.

The small size of the estimated effect in Russia is not just an idiosyncracy of my analysis. Applying the estimates of other scholars yields similar results. For instance, Silje Aslaksen estimates the relationship between the value of countries’ oil production (as a share of GDP) and democracy, as measured by both Polity and Freedom House. Using either democracy measure, she finds coefficients of -.002 to -.004, depending on the specification, where the dependent variable, democracy, is normalized to range between 0 and 1. Using the same data (from the World Bank’s Adjusted Saving Database), I find that Russia’s oil production as a share of GDP rose from about 11 percent in 1998 to about 23 percent in 2006, an increase of 12 percentage points. Applying Aslaksen’s estimated coefficients, this increase would result in a decrease in democracy of between 2.4 and 4.8 points on a 100-point scale. On the Polity scale, running from -10 to +10, that corresponds to a change of just 0.5 to 1 point.

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In another paper, Egorov, Guriev, and Sonin demonstrate that among autocracies and imperfect democracies, greater proven oil reserves correlate with lower media freedom, as judged by the organization Freedom House.\textsuperscript{14} This relationship holds both cross-nationally and over time. However, again the oil variable enters logarithmically, which implies that for countries like Russia the effect of recent changes is very small. Using the largest negative coefficient the authors obtained (-2.87, from their Model 5, Table 1), I calculate that the massive increase in the value of Russia’s proven oil reserves from $710 billion in 1998 to $7.68 trillion in 2008 should have reduced press freedom by seven points on a 100-point scale—roughly equivalent to the gap in press freedom between the US and Norway.

In short, the pattern of evidence from around the world suggests that the ups and downs in Russia’s oil and gas income in recent decades have had only a minor influence on its regime. Given that, by almost any measure, very large changes occurred in Russia’s political system during the last 25 years, one must look to other factors to explain these changes. Of course, oil and gas revenues may have been more important in certain years, but on average they appear to have played a secondary role.

3 Specific pathways

The apparently limited impact of oil on politics in Russia makes sense when one considers the various mechanisms by which scholars have argued that natural resource wealth blocks or

erodes democracy. It is hard to find much evidence of these mechanisms at work in Russia.

There are five main arguments.

A. Fiscal bargains

The argument that has found the most support is that large mineral endowments obviate the need for rulers to come to agreement with their subjects over fiscal issues. Democracy developed in Europe, according to one popular view, because rulers were forced to grant representation to at least some classes of the population in return for taxation. By contrast, in resource-rich states, rulers can live as “rentiers,” spending their revenues from the sale of minerals rather than relying on taxes.

This fits the situation in the Persian Gulf, where the burden of taxation is, indeed, unusually low. In Bahrain, tax revenues make up just four or five percent of GDP; in Kuwait, they come to about one percent.15 Qatar has no personal income tax, no tax on personal property, and no value added or sales tax. Despite not paying much tax at all, the country’s population receives a remarkable set of benefits from the state—from free education, healthcare, and telephone service to guaranteed jobs in the civil service upon graduation from high school, housing allowances, and free plots of land.16 Overwhelmed with royal largesse, most Qataris have been reluctant to campaign for political rights.

Of course, the “rentier” argument assumes that there are sufficient rents to keep the public at bay. Yet oil states differ greatly in how large their oil revenues are in per capita terms.


In Qatar and its Persian Gulf neighbors, the amounts are truly astounding. If the value of oil and gas produced in 2006 had been shared among all Qataris, each would have received $45,000.\footnote{Calculated from Michael Ross, \textit{Database on oil and gas income}, 2009, UCLA.}

The government could have financed all its expenditures for two years with its annual revenues from exports of oil and gas.\footnote{Revenues from fuel exports in 2006 came to about $31 billion; government expenditures, to about $14 billion (calculated from World Bank, \textit{World Development Indicators}, 2009).} In many other oil states, however, the take is far more modest. In Malaysia, for instance, the country’s total income from oil and gas in 2006, valued at world prices, came to only $1,300 per capita (see Figure 1). In the oil-rich sultanate of Brunei, fuel exports in 2006 came to 64 percent of GDP. In Malaysia, they were 14 percent (Table 2). The political consequences of $45,000 a year per capita in oil income are bound to be different from those of $1,000 a year.

<table>
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<th>Table 2. Fuel exports, 2006</th>
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Sources: calculated from World Bank, \textit{World Development Indicators}, 2009.
Another key distinction is whether oil and gas are exploited by the state itself or by private companies, which the state must then tax. In recent years, about three quarters of all oil was produced worldwide by state-owned national oil companies. But there are some exceptions. The logic of the “rentier” argument suggests that if governments must bargain with the private sector owners of oil companies over taxation, this could lead to a more open and competitive type of politics.

How do these considerations apply to Russia? Although its oil and gas reserves are vast, so is its population. As a result, its annual income from oil and gas per capita—about $2,800 in 2006, if all sold at world market prices, which it was not—is nowhere near that of a Persian Gulf emirate. Revenues from oil and gas exports in 2006 came to about $1,340 per person, a bit below the level for Australia. The budget derived only about one third of its revenues in 2007 from oil and gas. As for ownership of the oil sector, Russia since the mid-1990s has been one of a handful of countries that includes the USA and Canada where most oil is produced by independent, private companies, rather than in projects dominated by the state (with or without foreign partners). It is easy to forget this amid the outcry over Putin’s measures to expand the state’s presence. But even after the re-nationalizations of Yukos and Sibneft and the

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20 Pauline Jones Luong and Erika Weinthal (“Rethinking the Resource Curse: Ownership Structure, Institutional Capacity, and Domestic Constraints,” *Annual Review of Political Science*, 2006, 9, 241-63,) argue that the weak institutions associated with resource wealth should “instead be attributed to the pathologies associated with state ownership.” When resource sectors are predominantly privately owned, there are incentives for the creation of strong institutions.

21 Much of Russia’s oil and gas is sold domestically, at prices that have in the past been far below world prices.


revision of terms on the Sakhalin II project, estimates of the share of oil produced in majority state-owned companies ranged from 37 to 42 percent. In the gas sector, the state’s stake in Gazprom was increased to just over 50 percent through the repurchase of shares. But at the same time it became legal for foreigners to own shares directly.

As a result, although the oil and gas sectors contribute a great deal to the budget, most revenues come from other sectors. And much of the oil and gas revenues have to be extracted in the form of taxes from privately owned companies. The government cannot live off its rents. Nor does it have remotely enough oil wealth to keep the population cocooned in a Persian-Gulf-style system of cradle-to-grave benefits. As a result, the government must enter into negotiations with the private sector—in the 1990s, the level of ad hoc bargaining was considered a scandal—and it has worked to create a modern tax system, with personal income taxes, VAT, and payroll taxes. Tax revenues of the consolidated budget came to about 30 percent of GDP in 2007.

B. Repression

A second argument is that revenues from oil and gas enable governments to repress their populations. Mineral rents provide the cash to hire more policemen, train security services, and

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24 Philip Hanson, “The Resistible Rise of State Control in the Russian Oil Industry,” Eurasian Geography and Economics, 2009, 50, 1, pp.14-27, at p.15; OECD, Economic Survey: Russia, 2006, p.38; Peter Rutland, “Putin’s Economic Record: Is the Oil Boom Sustainable?” Europe-Asia Studies, 2008, 60, 6, 1051-72. Rutland points out that not only does Russia have a sizeable private oil sector, it also has competition among its domestic oil producers.

monitor citizens with high technology equipment. The huge stakes involved might also make incumbents more determined to use violence to crush political opposition.

Ross examined this, using as a measure of repression the annual frequencies of torture, extrajudicial killings, political imprisonment, and disappearances attributable to the government, as collected from US State Department human rights reports by Cingranelli and Richards. He found that, in fact, controlling for regime type, oil producers were no more repressive than non-oil producers.

C. Oil and modernization

An influential tradition of thought argues that democratization tends to occur only after societies are transformed by modernization. The spread of education, industrialization, urbanization, occupational specialization, and modern mass media prompt new popular demands for government accountability. However, if countries grow rich by extracting oil or other minerals, the social changes associated with modernization in Western Europe and North America may not take place. Minerals can be extracted in enclaves, often staffed by foreigners, while the surrounding society remains predominantly traditional.

Whether such social transformations are necessary or sufficient conditions for democratization is debated. But, regardless, this argument does not apply well to countries that were already industrialized when they discovered oil or when the oil boom of the 1970s occurred, creating massive rents for petroleum producers. Oil rich states began from very

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27 Ross, “Oil and Democracy Revisited.”
different starting points. In the Persian Gulf and North Africa, many were tribal communities of farmers, nomads, traders, or pearl divers when the oil industry first developed. By contrast, others were highly industrialized and urbanized, with educated populations and extensive mass media. Norway and Denmark, for instance, were already stable, industrialized democracies by the 1970s when North Sea oil came on line. As noted, such countries have shown no signs of sliding into autocracy as oil revenues grew. Similarly, the prior industrialization of many Latin American countries may help explain why mineral wealth there did not impede democratization.

Table 3  Some characteristics of leading oil producers, averages for 2000-08

<table>
<thead>
<tr>
<th>Manufacturing value added (% of GDP)</th>
<th>Services value added (% of GDP)</th>
<th>Tertiary school enrolment, %</th>
<th>Scientific articles per million people</th>
<th>Researchers in R&amp;D per million people</th>
<th>Labor force, female (% of total)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Russia</strong></td>
<td>18.2</td>
<td>Denmark 72.5</td>
<td>Norway 75.5</td>
<td>Denmark 918</td>
<td>Denmark 4721</td>
</tr>
<tr>
<td>Venezuela</td>
<td>18.0</td>
<td>Canada 66.0</td>
<td>Denmark 70.5</td>
<td>Canada 743</td>
<td>Norway 4571</td>
</tr>
<tr>
<td>Canada</td>
<td>17.5</td>
<td><strong>Russia</strong> 57.9</td>
<td><strong>Russia</strong> 70.4</td>
<td>Norway 717</td>
<td>Canada 3723</td>
</tr>
<tr>
<td>Turkmen.</td>
<td>16.2</td>
<td>Norway 57.3</td>
<td>Canada 60.6</td>
<td><strong>Russia</strong> 107</td>
<td><strong>Russia</strong> 3340</td>
</tr>
<tr>
<td>Denmark</td>
<td>15.3</td>
<td>Kazakhstan 52.7</td>
<td>Libya 51.4</td>
<td>Kuwait 100</td>
<td>Kazakhstan 663</td>
</tr>
<tr>
<td>Kazakhstan</td>
<td>14.5</td>
<td>Iran 46.9</td>
<td>Kazakhstan 43.9</td>
<td>UAE 49</td>
<td>Libya 361</td>
</tr>
<tr>
<td>Brunei</td>
<td>13.6</td>
<td>Kuwait 46.2</td>
<td>Venezuela 39.7</td>
<td>Oman 41</td>
<td>Brunei 279</td>
</tr>
<tr>
<td>UAE</td>
<td>13.2</td>
<td>Trinidad 45.2</td>
<td>Bahrain 32.8</td>
<td>S. Arabia 26</td>
<td>Algeria 170</td>
</tr>
<tr>
<td>Iran</td>
<td>11.5</td>
<td>Venezuela 44.0</td>
<td>S. Arabia 25.7</td>
<td>Iran 24</td>
<td>Venezuela 150</td>
</tr>
<tr>
<td>Norway</td>
<td>10.3</td>
<td>Oman 43.5</td>
<td>Iran 23.0</td>
<td>Venezuela 21</td>
<td>Kuwait 73</td>
</tr>
<tr>
<td>S. Arabia</td>
<td>9.7</td>
<td>UAE 42.9</td>
<td>UAE 21.9</td>
<td>Algeria 9</td>
<td>Qatar n.a.</td>
</tr>
<tr>
<td>Oman</td>
<td>7.6</td>
<td>S. Arabia 41.1</td>
<td>Algeria 20.0</td>
<td>Kazakhstan 7</td>
<td>Eq. Guinea n.a.</td>
</tr>
<tr>
<td>Eq. Guinea</td>
<td>7.1</td>
<td>Gabon 36.4</td>
<td>Kuwait 19.9</td>
<td>Qatar n.a.</td>
<td>UAE n.a.</td>
</tr>
<tr>
<td>Trinidad</td>
<td>6.9</td>
<td>Turkmen. 35.4</td>
<td>Oman 18.9</td>
<td>Brunei n.a.</td>
<td>Trinidad n.a.</td>
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<td>Qatar 18.0</td>
<td>Eq. Guinea n.a.</td>
<td>S. Arabia n.a.</td>
</tr>
<tr>
<td>Gabon</td>
<td>4.3</td>
<td>Algeria 31.9</td>
<td>Brunei 14.4</td>
<td>Trinidad n.a.</td>
<td>Oman n.a.</td>
</tr>
<tr>
<td>Kuwait</td>
<td>2.6</td>
<td>Eq. Guinea 3.7</td>
<td>Trinidad 8.5</td>
<td>Libya n.a.</td>
<td>Turkmen. n.a.</td>
</tr>
<tr>
<td>Qatar n.a.</td>
<td>Qatar n.a.</td>
<td>Eq. Guinea 2.7</td>
<td>Turkmen. n.a.</td>
<td>Bahrain n.a.</td>
<td>S. Arabia 13.9</td>
</tr>
</tbody>
</table>

Source: Adapted from Treisman, *The Return: Russia’s Journey from Gorbachev to Medvedev*, data from World Bank, World Development Indicators, 2009.
In this regard, Russia looks like one of the oil producers least likely to fall victim to the curse. Although just a middle-income country, Russia was even more industrialized than many of the Latin American mineral-rich states when oil prices first spiked. Developed in the distinctive Soviet manner, it has rates of educational and scientific achievement more comparable to those of developed countries (see Table 3). Along with the other former Soviet oil producers, it has an unusually high rate of female labor participation. Maintaining political control over a literate, highly educated population, rich in scientists, where women are integrated into the workforce, is bound to be more challenging than imposing an authoritarian regime on traditional communities of farmers and local traders.

D. Media Freedom

As already mentioned, Egorov et al. find a relationship between oil reserves and lower media freedom. However, as also noted, the effects of new reserves or increases in the oil price turn out to be small for countries that already had significant proven reserves. The implied effect for Russia was tiny.

E. Corruption

Finally, resource wealth is often thought to foster corruption, which might in turn erode democracy or perpetuate dictatorship. Widespread graft is likely to discredit democratic
officials and may make them eager to reduce the transparency of government. Steven Fish argues that this was a main reason for Russia’s stalled democratization.28

Is there a relationship between oil income and corruption? Where oil and gas are abundant, corruption is perceived to be higher. Various scholars, using indexes of perceived corruption compiled by polling international businessmen and experts, have found a relationship between perceived corruption as captured by such indexes and natural resource wealth.29 Oil rich states such as Qatar and Equatorial Guinea are perceived to be considerably more corrupt than most others at their income level. Russia is perceived to be somewhat more corrupt than one would expect given its gdp per capita.

However, perceptions are sensitive to how countries are portrayed in the world media. In a previous paper, I showed that measures of perceived corruption did not always coincide with measures of corruption based on surveys in which individuals or businesses were asked concrete questions about whether members of their family or “firms like theirs” had been expected to make unofficial payments during the previous year.30 In the data from such experience-based surveys, evidence of a link between oil and higher corruption is far weaker, and often non-existent. For instance, using reports on the frequency of bribery from the World Bank’s World Business Environment Survey (which surveyed firm managers) and the organization Transparency International’s Global Corruption Barometer Survey (which

29 The first study to find this was Alberto Ades and Rafael Di Tella, “Rents, Competition, and Corruption,” American Economic Review, 1999, 89, No. 4, 982-994.
interviewed individuals), I found little or no relationship, even controlling for income. In Russia, reports of bribery were not more frequent on average than in other countries around its income level.

These surveys inevitably focus more on low level corruption than on kleptocracy at the top. Low level officials do not appear to be more corrupt in countries with mineral wealth. But the story might be different for government ministers. In Russia, as the oil price rose after 1999, stories circulated of brazen venality at the highest levels involving mind-boggling sums. Such stories may very well be true. Unfortunately, there is little way to know—and to compare the scope of such corruption in Russia to that in other countries that lack oil. Nor is it clear whether or not corruption itself undermines democracy. There are some suggestive arguments to this effect, but as yet little empirical evidence to back them up.

4 Conclusion

Russia’s oil and gas income—even at the height of the recent price surge—was nowhere near enough to fund the kind of politically enervating welfare state found in the Persian Gulf. Moreover, much of the government’s share of oil revenues still has to be extracted in the form of taxes from the private magnates who control most of the country’s oil production. Unlike in Qatar or Kuwait, the Russian state will have to continue taxing the population, and dealing with the discontent that engenders. Nor can Russia’s oil preclude modernization since the country is in most ways already modernized. Rising oil prices since 1999 may have prompted a reduction in press freedom, but, judging from experience elsewhere, only by a very small amount. Oil-rich
states like Russia are perceived to be more corrupt. But, although it is certainly possible that
they are, there is little reliable evidence to this effect.

If Russia’s oil and gas do not doom the country to autocracy, they do nevertheless play a
part in a more complicated process. Surging oil prices have in certain periods stimulated
economic growth. As in many other countries, improving economic conditions buy the
president greater popular support.31 At moments of overwhelming popularity, a president has
the opportunity to make significant changes to the system, pushing it towards either more or
less democracy. President Putin, with an approval rating close to 80 percent, chose the latter.
This was not inevitable; had the Kremlin candidate in 2000 been a more committed democrat,
one can imagine that the subsequent boom might have helped sustain support for further
democratic reforms. At the same time, the price of oil, although important, was not the only
determinant of Russia’s growth rate. Studies suggest that higher oil prices explain between one
third and one half of the total growth since 1999.32 The impact of oil prices was apparently
stronger in 2005-9 than in 1999-2001, when growth was fueled by the effects of devaluation,
and 2001-4, when higher output of oil and minerals—mostly achieved by private companies—
was at least as important as higher prices. Thus, the path from oil prices to weaker democracy
in Russia since 1999 has been somewhat indirect and contingent.

31 Daniel Treisman, “Presidential Popularity in a Young Democracy: Russia under Yeltsin and Putin,” University of
California, Los Angeles: manuscript, November 2009. This paragraph draws on my book The Return: Russia’s

32 Paavo Suni, “Oil Prices and the Russian Economy: Some Simulation Studies with NiGEM,” (Helsinki: Research
Institute of the Finnish Economy, 2007) estimates that higher oil prices explain about 2.5 points (38 percent) of the
6.5 percent average growth rate in 2001-06. Roland Beck, Annette Kamps and Elitza Mileva, “Long-term Growth
Prospects for the Russian Economy,” (Frankfurt: European Central Bank, 2007), reviewing previous studies, note
estimated long-run elasticities of GDP to permanent increases in the oil price of .15 to .20. Using the monthly
prices of European Brent oil, these elasticities imply that the change in oil prices in 1999-2007 can explain 25 to 33
points of the 72 percent increase in GDP (measured in constant rubles) between those years—or, in other words,
35 to 46 percent of the total growth.
More generally, resource endowments have two effects. First, they may provide rents that, if controlled by the government, can be used for political purposes. Second, dependence on commodity exports subjects countries to sometimes extreme economic gyrations as the prices of commodities are more volatile than those of manufactured products and services. In countries for which the rents are large relative to the volatility, natural resources may enable incumbent rulers to entrench themselves and avoid sharing power. In those for which the volatility is large relative to the rents, the main political consequence of resource dependence is likely to be not so much authoritarianism as instability.

Such instability may not always be bad for democracy. If the instability is moderate, it may help facilitate turnover at the top of the state. Turnover does not by itself create democracy, but from alternation of elites democracy can emerge. On the other hand, extreme instability may discredit and incapacitate the state, leading to civil conflict rather than peaceful alternation. From this perspective, the second rank oil producers of Latin America and Asia (Argentina, Mexico, Ecuador, Indonesia, Malaysia) may have a combination of rents and volatility that is consistent with—or even conducive to—democratization, while the major oil producers like Qatar and Brunei have such high rents that the volatility is hardly felt. To the extent this is correct, Russia fits best into the first category, along with Latin American peers like Mexico and Venezuela. Its mineral wealth adds an element of periodic turbulence to its political economy, which will sometimes disrupt—but could at times even catalyze—democratic transition.

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