# Risk Management System (RMS™)

A User Manual Modeling Solutions, LLC www.modelingsolutions.net



Modeling Systems, LLC

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the paradigm shift in assessment

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### **RMS**<sup>™</sup> User Manual

The Risk Analysis System (RMS) is a risk analysis system designed for corrections professionals by corrections professionals. It takes information about an offender typically collected by a correctional system and applies an advanced mathematical approach called Example-based Modeling (EBM). RMS uses EBM to generate a risk estimate for a given offender based upon the pattern of risk factors the offender possesses. RMS's ability to use patterns to derive risk estimates for an offender give it a significant advantage over traditionally constructed risk tools. You will begin to appreciate the advantage as you read this manual and use the RMS tool.

This manual is meant to guide the user in using the RMS interface, to help users develop an appreciation of how to use the information that RMS provides, and to better understand general risk assessment issues. To that end, we appreciate your interest in RMS and welcome you to the RMS user community.

#### An adage from psychology

If you want to anticipate someone's response to a situation, examine what that person did, under similar circumstances, in the past. This sounds good in theory, but unfortunately, this only works if you can observe that person several times in similar circumstances to get a baseline of what they might do. In the world of corrections we must attempt to create a baseline of what a client might do, without the luxury of being able to let them out unhindered to establish a good baseline from which to make future decisions. What to do?

#### Classical risk assessment

Presently, most risk assessment tools have altered the adage to read: If you want to anticipate what an offender will do in a future situation, compare what a bunch of other offenders <u>with a similar risk score</u> have done in the past. This approach has served to enhance decision-making over the years by better standardizing and objectifying the risk assessment process but it has the basic statistical limitation of treating everyone with similar scores in a similar fashion without consideration of the underlying risk factors generating a score for a given offender.

The result of using scores in this fashion is to over-classify the risk for some offenders, while simultaneously under-classifying the risk for other offenders. This happens because not all pathways to a particular score will carry the same level of predictive accuracy. Andrews (1989), in the context of juvenile assessment stated, "The classic research is also near unanimous in suggesting that there are several routes through which young people become at risk for delinquency. Thus, producing a list of risk factors does not suggest that any particular risk factor is always present, or that some factors not included in the lists may be very important to some people under some circumstances." Andrew's insight provides an important key to the development of advanced risk assessment tools in general— paying attention to the pattern of risk factors can enhance future tools.

Risk tools using scores as described previously, essentially distill an "on-the-average" estimation as to the likelihood of correctly classifying an offender as a recidivist or a non-recidivist for a given score. But suppose you could remove pathways to a particular score that are less associated with recidivism so that they wouldn't water down the real estimation for a given offender? To better understand this concept, we need to revise our adage one more time.

#### RMS assessment

To begin to understand RMS we must revise the adage to read: If you want to anticipate what someone will do in a future situation, examine what ten other people with <u>similar risk factor pat-terns</u> have done in the past under similar circumstances. Zamble and Quinsey (1998) examined many of the static and dynamic risk factors associated with recidivism. While recognizing the difficulty in doing so, their work urges professionals to view recidivism as a "process" that should examine the risk factors in the context of each other. We understand that a risk factor pattern is but a limited picture for any given offender, but it is a picture none-the-less, and it is substantially more than a simple additive risk score.

RMS uses an advanced set of statistical techniques that were historically unavailable. RMS builds a model based upon the patterns from comparable offenders to represent the client being assessed. In order to build these models, we have collected exemplars of offenders exhibiting the range of behaviors we are trying to anticipate (recidivism, capacity for violence, and intervention effects). We call these exemplars our reference library. We mathematically select our comparable offenders based upon the similarity of risk factor patterns to the risk factor pattern of our target offender. The EBM technology allows us to use time tested variables that have been utilized in a variety of settings and jurisdictions to generate a much more accurate classification model for a given offender.

#### How does RMS provide greater accuracy?

Many readers have been to a risk assessment seminar or training class. Invariably, someone in the session will ask, "What does the risk score mean if an offender's score falls in the middle?" This is very good question because it drives to the heart of an important issue. What is explained by the trainer is often misunderstood by the listener. The listener typically interprets what is said as meaning that an offender with a score falling in the middle range presents a "medium risk." This conclusion is based upon the mathematical fact that the offender's score happens to be somewhere between the lowest possible score and the highest possible score on the risk tool regardless whether or not offenders with similar scores have the same risk factors. But let's think this through...

Most risk assessment tools are comprised of a list of risk factors that are related to a behavior of interest (e.g. recidivism). Put another way, these risk factors are related to one of two categories: clients who **do** recidivate and clients who **do not** recidivate— there is no category of "sort-of recidivate." The range of scores from the lowest to highest possible score help us to select a point on the continuum of scores that will chop that continuum into two pieces. The piece with the lowest scores typically represents the non-recidivists, whereas the other piece with the highest scores represents the recidivists. Although we could cut the continuum at any score, the best cut score attempts to classify the most offenders correctly as recidivists or non-recidivists. Clear (1988) provides an excellent primer on this issue. Unfortunately, people who use risk tools have inadvertently inserted a subtle but important misunderstanding.

We often hear people talk about the norm table of a risk tool. The meaning of a norm table is straight forward, it tells you how an offender's score falls on a continuum from the lowest possible score to the highest possible score in relation to any other offender's score. Although norm tables come in different flavors, most people are familiar with the term "cumulative percentage." This is the statistic that provides information about the running total of how many people have at least some level of score. The obvious assumption is that as scores increase so does the likelihood of recidivism. Unfortunately a norm table reporting cumulative percentage information is not reporting actual outcome information. It simply tells you how one offender's score falls in

comparison to some other offender's score. To make norm tables more useful, a second piece of information called "base rate" is often overlaid on top of a norm table that purports to give an estimate as to an offender's "likelihood of recidivism." The base rate is simply the proportion of recidivists to nonrecidivists for a given score or band.

"Likelihood of recidivism" information is sometimes created by grouping scores into several bands: the lowest band of scores is described as low-risk; the middle band of scores is described as medium-risk; and the highest band of scores is described as the high risk. In reality, the "likelihood-of-recidivism" statistic associated with these bands is simply the number of recidivists v.s. the number of non-recidivists falling into the band, <u>it does not represent the risk propensity of a given offender</u>.

Suppose a risk band reportedly has a "50% chance of recidivism." As stated above, this tells you nothing about any particular offender. For illustration, suppose instead of a band, we have a bag that reports a "50%" chance or recidivism. The contents of the bag are comprised of 50 recidivists and 50 non-recidivists. Imagine being blindfolded and then asked to reach into the bag and pull out <u>your</u> offender. Obviously this isn't going to happen, because <u>your</u> offender was never part of the group that generated the risk estimate. As a result, it's statistically clear as a bell that the 50% is not tied to your offender and does not reflect a behavioral recidivism propensity. So what is the risk score tied to a risk band actually doing? It's telling you the likelihood of correctly classifying an offender as either a recidivist or a non-recidivist based upon their score or band. Hopefully, as scores increase, the proportion of recidivists increases which in turn increases your chance of pulling a recidivist out of the bag. In this illustration the bag had a 50% chance of giving you a correct classification of a recidivist and a 50% chance of correctly classifying a non-recidivist.

When risk scores are put in this light you can probably see that many of the risk tools you are familiar with are actually attempting to tackle classification problems. Unfortunately, users often misunderstand the information the designers of the tools had intended to provide. Anytime the outcome of interest is an either/or scenario (e.g. recidivist or non-recidivist; violent or not violent), the risk tool is telling you the likelihood of correctly classifying someone as belonging to one group or the other group. In essence, the risk tool is telling you the likelihood of making a correct decision. Any tool constructed in this fashion with bands purporting to provide a "chance of recidivism" in the neighborhood of "X"% must be interpreted in the following way: you have a "X"% chance of correctly identifying your offender as belonging to one of two groups: a group comprised of 100% recidivists or a group 100% comprised of nonrecidivists. The most obvious implication for supervision is half of the people in a "middle risk" band <u>will</u> recidivate. Unfortunately, we have no way of knowing which offenders are the recidivists. What we do know is that offenders falling into this band will consume the greatest amount of your supervision resources This is understood when you realize that half of the offenders in this band are estimated to be 100% genuine nonrecidivists and will be assigned exactly the same resources as the future recidivists. There is no middle risk offender.

In summary, a risk score from a tool like the ones described above help us take a slice of offenders whom we have outcome information to determine the proportion of recidivists vs nonrecidivists at a score level similar to our target offender. This information provides us with an estimate as to our chance of correctly classifying an offender as a recidivist or non-recidivist. Notice the word *estimate*. Researchers use the word *estimate* to emphasize that although they have a degree of confidence in the data associated with their norm tables and the outcome data associated with the norm table, researchers know that data samples can vary to some degree.

#### The missing piece to local norms

Local norms are considered to be very valuable in most correctional systems. But, local norms are valuable only to the extent that you can make a compelling case that the population you intend on using a risk tool on is <u>fundamentally</u> different from the tool's development sample. Local norms are often premised upon the notion that OUR offenders get their scores differently than YOUR offenders AND/OR the proportion of recidivists vs. non-recidivists will be different for a given score or range of scores. Thus, local norms are actually an attempt to compensate for a regional bias in the way offenders get their scores. As we have seen above, simply knowing an offender's score doesn't mean that you know the likelihood of correctly classifying the offender as a potential recidivist or non-recidivist.

Some researchers might argue that you can simply "transport" the outcome data from a development sample to your new local norms with statistics. But this misses a significant point: the decision to pursue local norms argues that your population's scores are fundamentally different than the development sample's scores. Given this fundamental difference what degree of confidence can you have in outcome data developed on a fundamentally different sample of offenders? The answer is simple, you simply don't know, at least not until you have outcome data from which to <u>validate</u> your local norms. Validation is the missing piece to most local norms and validation takes time.

#### Local norms and RMS

Local norms are essentially an "on-the-average" model that has been tweaked for a particular region. The distribution of possible scores is calibrated to the region AND new outcome data is paired with the scores. Local norms can help to increase classification accuracy because they are sometimes more reflective of the <u>way</u> your offenders get their scores.

A brief digression is in order. Before it is assumed that your region requires local norms some time should be spent assessing if offender behavior is different or whether it is your region's ability to detect criminal behavior. If it the former, local norms may be warranted, but if it is the latter, adjusting your norms to reflect your official detection rate as opposed to detecting criminal behavior will only serve to decrease your ability to protect the community. Simply because a tool is consistent with your incarceration rate doesn't mean it is consistent with your crime rate.

A second issue with local norms is that not all offender patterns are equally useful when trying to classify any particular target offender. It is very likely that some offender's data patterns are very different from your target offender's patterns, yet these offenders are still incorporated into the traditional norm table and these offenders will influence the base rate of your outcome variable. This will affect your ability to correctly classify your target offender.

RMS directly addresses what local norms are attempting to accomplish: increase the likelihood that offenders who have similar risk factors are used to model what that offender might do upon release to the community. This is accomplished because RMS was constructed with a pattern matching paradigm at its core.

#### Summary

RMS was developed from the ground up to tackle classification problems. To do this, RMS incorporates example-based modeling algorithms (EBM). EBM identifies historical offenders most similar to an offender's risk factor pattern for whom we have behavioral outcomes and builds a modeled simulation of what might be expected for a given risk factor pattern (i.e. whether the pattern is most associated with a recidivist or a nonrecidivist). By incorporating EBM, RMS automatically creates a local model based on the actual risk factors instead of geographic location, or simple summed scores.

## Website Navigation

#### www.modelingsolutions.net

Welcome to the navigation section of the manual. This section will organize itself around two primary functions: entering a risk assessment and viewing the results.

RMS is a web-based risk assessment tool that can be accessed in most standard internet browsers like Internet Explorer and Firefox that have a Macromedia Flash plug-in. For those of you in a Mac environment, Safari works too! Your computer should have Macromedia flash player 7.0+.

Most users find it useful to be at a computer when they read this manual. However, for those of you who prefer to relax while reading, feel free...just remember to take the manual with you the first time you actually navigate the website.

#### Getting to the Website

The first thing that you have to do is get to the website. It is located at <u>www.modelingsolutions.net</u>. When the website opens you will see the screen captured below. This is the front door to our current interface. The opening page is divided into 3 parts: a general navigation pane on the left hand side of the screen; a description of the RMS tool in the



middle; and an RMS login pane on the right hand side. This is where you will login to your account.

#### Login to the RMS tool

Accessing the RMS tool requires that you enter your username and password and clicking the submit button. Note: the username and password are case sensitive. If you have not received a username and password contact you supervisor to ensure that your department is authorized to access the RMS.

You will be presented with a "Disclaimer" screen. Read the information. In essence, it reminds the user that the RMS information is to be one part of a risk assessment and should not be the sole determinant in the decision-making process. It also reminds the user that they are responsible for how the information will be used. These are common sense reminders. By clicking "Accept" you will be presented with the actual RMS tool.



#### **RMS** Orientation

To the right, is a screen shot of what you will see after you login. This is the **Results Filter** area. We will examine this more fully in the next few pages. For now, we want to orient you to the look and feel of the RMS.

There are five tabs at the bottom of the screen that access

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All Offende	r Records:	
3	ow AI Offender Records with	n No Filters.
J Butwell D	ato Barrio Sparth	Balance Oaks Barren Saarte MARDAVVVV
For	The second se	Pom 1 + 1 + 2004 +
Τα		To 1
Risk Leve	Seath: 1	Aodeled Values:
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🕑 Seath	Results - Form	
🕑 Searth	Results - Farm	

RMS functionality. As a general rule, the Results Filter tab will be your primary focus. When selected, it will display the Input Form, Results Filter, and the Model Results tab. These three tabs will undoubtedly form the core functionality for most RMS users. The Main Menu and Output file tabs are primarily for future functionality.

Note: You will also want to use only the navigation tabs and buttons in the RMS screen. Do not use your browser Back or Forward buttons...this will undoubtedly cause you to say things your mother wouldn't approve of... These buttons do not control the RMS, they will log you out of the RMS, and will return you to the previous website you were looking at prior to launching the RMS.

#### Input Offender Data

Rating an offender on the RMS items is straightforward.

Initial Assessment-Follow these steps:

- 1. Click the Input Form tab. This will launch a new window with a blank RMS form.
- 2. Complete all items. Refer to the Scoring Manual for specific scoring criteria.
- 3. Click the submit button.
- 4. Repeat for next offender.

Reassessment-Follow these steps:

- 1. Click the Input Form tab. This will launch a new window with a blank RMS form.
- If you know the offender/ client number enter it in the Identification box. Click the Offender Re-Population hyperlink.
- 3. An Offender Search window will open. It will list all previous assessments



for a given offender number. You can see the date and time a particular assessment

was done. You may select one of the assessments and click on the Populate Form button. RMS will complete the form with the items from the assessment you have chosen. You will only need to change the data that has changed since the previous assessment.

4. Press submit.

#### What If- Follow these steps:

- 1. Click the Input Form tab. This will launch a new window with a blank RMS form.
- 2. If you know the offender/client number enter it in the Identification box. Click the Offender Re-Population hyperlink.
- 3. An Offender Search window will open. It will list all previous assessments for a given offender number. You can see the date and time a particular assessment was done. You may select one of the assessments and click on the Populate Form button. RMS will complete the form with the items from the previous assessment you have chosen. You will only need to change the data that you would like to "what-if."
- 4. Press submit.
- 5. Make a note: keep track of the item an the assigned ID number. For example, if an offender has been modeled previously s/he's ID number will have a suffix attached to the number. For example, offender 10000 might look like this if more than one assessment has been done 10000.04. This indicates that four previous assessments exist. What-if's are simply another assessment to RMS.

#### **Selecting Results**

The Results Filter follows a logical flow. It provides options that allow you to narrow search results. As you select more options, your search will narrow. When you are done selecting the options, press the Search Results Form button at the bottom of the screen to view your results online.

😥 Search Results - Form

Search options:

- 1. All offenders: This option precludes any narrowing of the search. You will see all rated offenders. You must uncheck this option to narrow your search.
- 2. Submit Date Range: Search for RMS assessments between two dates. For example, you would like to see only your most recent assessments.
- 3. Release Date Range: Search for estimated release dates between two dates. For example, you would like to see who might be coming up for release and what their risk ratings have been.
- 4. Risk Level Search: Restricts the range of RMS risk scores to a band. For example, you want to identify offenders with scores above some criteria.
- 5. Modeled Values: Restricts to just Recidivism, Violence, or both. For example, you might restrict your search to only violence scores for offenders who might benefit from anger management programs

#### **Needs Filter**

This option allows you to identify offenders with a certain level of dysfunction. These options are useful when trying to anticipate the number of offenders with a particular need OR in combination with the other filters, identifying offenders for specific types of programs based upon the level of needs within certain time frames.

onences ratee by needs:					-
Academic/Voctoral Skills	From:	0	Emotional Stability	Hom	0
	To:	100		TD	100
Construment	Rom:	0 0	Alexhard Stee	From:	0
cmpuyment	To	100	Activo use	To	100
Prandal Management	From	0 1	Other Date Investment	Pom:	0
	TO	100 1	Other usig involvement	To:	100
Martai/Family Relationships	Rom:	0	Adverted Adverter	Rom	0
	To:	100	mena Ability	To	100
Commenter	Rom:	0	(Line)	From	0
_] companens	To	100 \$	Pean	To:	100
			Conversion Darkensing	From:	0
	🕑 Sav	ve Needs Options	Coexia perenu	TO:	100

To search for a particular need check the box next to the need and set the range of need that you are looking for in your offender group. The scale is actually the percentage of need listed on the needs plots. When you have made your selections, click Save Needs Options.

Note: These search criteria are saved. To clear these criteria, uncheck the needs filter in the Results Filter tab. See below:

Piter - Needs Assesment	Seach to Offender
Riter - Enable Unique Offender ID's Only	
Pormat - CSV Results Output	
Search Results - Form	
-	
Main Menu Input Form Presults	Riter Modeled Results Output Re

There are two remaining search option:

1. Enable Unique Offender ID's- This will restrict your search to the most recent assessment for each offender.

2. Search for Offender: Search for a specific offender.

#### Output results to a File

Format -CSV Results Output. This option is for exporting the risk data to another program. Most common is a spreadsheet. This option will allow you to select which pieces of data to export. It is possible to download all data generated by the RMS.

When you have selected your options click Save CSV Options. Ensure that you have selected All Offenders or narrowed your offender search by some criteria in the Results Filter. Click the Output tab at the bottom of the screen. A window indicating a file is ready for download is opened. Save the file.

Note: If you have not identified a set of offenders prior to getting to this option, a file cannot be generated. Some internet browsers will report that a Script is running slowly. This is because RMS is trying to do what you have told it to do... generate a useful file with nothing in it. :>) You must provide some sort of criteria for RMS to generate a file for downloading.



#### **Results on the Screen**

To see the results of your Results Filter selections, click the green Search Results -Form button at the bottom of the results options.

✓ Submit Date Range Search	_ Reisase Date Range Search: MM/OD/YY
Rom: 1 Reb 2006 🧱	From: t + t + 2004 +
Ta: 16 Peb 2006 🛅	To: 1 + 1 + 2004 +
y/Risk Lavel Search: M	lodeled Values:
From: 1	✓Reddivism
Ta: 2 :	✓ Violence
Filter - Needs Assessment Filter - Enable Unique Oftender (D's Oni Format - CSV Results Output	Searth for Offender

#### **Modeled Results**

The Modeled Results screen presents the data generated by the RMS. When the window opens it will look like the one below:

Offender inton	mation			0-28 of	28		90		( Craph	cal Needs Assessment
Offender	Birth Date	Gender	Modeled	Release Date	Mod	el Proc	ess		-	
10P	1974-03-23	MALE	1.53	2007-08-27	B.				Printab	le Report
10P	1974-03-23	MALE	1.85	2007-08-27	٧.					
11PR	1962-04-04	MALE	1.74	2005-09-28	R					
1PR	1962-04-04	MALE	1.59	2005-09-28	V.					
12PR	1979-05-31	MALE	1.77	2005-09-26	R					
2PR	1979-05-31	MALE	2.00	2005-09-28	V.					
13PD	1981-06-16	MALE	1.91	2005-07-27	R					
13PD	1981-05-16	MALE	1.45	2005-07-27	V.					
14JD	1981-01-06	MALE	2.00	2005-03-28	R					
14JD	1981-01-06	MALE	1.47	2005-03-28	V.					
1PD	1972-05-05	MAI F	1 00	2006-07-09	R			•		
tompareable	Offender Informati	on								Legend
Ottender	Birth Date	Gender	Actual R	sk Percent V	P	D W	EO	Ye	ars Served	V: Votence P. Propery D: Drug W: Weepon E: Escape O: Other
Main Marco			Decision					0.4		

This window allows you to access three types of information:

- 1. Offender Information table: Risk and Violence scores.
- 2. Comparable offenders used to create an RMS model.
- 3. Needs Assessment information.

**The Offender Information table** presents the modeled results for recidivism and capacity for violence. The data in this table is straight forward. The Modeled Process column presents the type of risk score (recidivism denoted with an "R" the capacity for violence denoted with a "V").

**The Comparable Offender Information table** presents the cases used to construct a model for the offender you selected in the Offender Information table. No data will appear in this table until you select an offender in the Offender Information table.

Offender Infor	mation			0-29	at 2	85		6	00	26		( Craphic	al Needs Assessmen
Offender	Birth Date	Gender	Modeled	Release Dat		Mo	del	Pro	ces	15		-	
10P	1974-03-23	MALE	1.53	2007-08-27		R				-		Pintatol	e Report
10P	1974-03-23	MALE	1.85	2007-08-27	1	v							
11PR	1962-04-04	MALE	1.74	2005-09-28		R							
11PR	1962-04-04	MALE	1.59	2005-09-28		V.					ч		
12PR	1979-05-31	MALE	1.77	2005-09-26		A							
12PR	1979-05-31	MALE	2.00	2005-09-26		V.							
13PD	1981-06-16	MALE	1.91	2005-07-27		R							
13PD	1981-06-16	MALE	1.46	2005-07-27		v							
14JD	1981-01-06	MALE	2.00	2005-03-28		R							
14JD	1981-01-06	MALE	1.47	2005-03-28		٧							
1PD	1972-06-05	MALE	1 00	2006-07-09		R					•		
Compileable	Offender Informat	on											Legend
Offender	Birth Date	Gender	Actual Re	sk Percent	٧	P	D	W	E	0	Yes	ars Served	V: Violence
10001	1963-01-13	MALE	2	21.45	3	4	C	0	0	0	8.1	6	P. Picpery
10002	1961-12-24	MALE	2	17.78	5	5	2	0	0	2	7.6	7	O: Drug
10003	1975-12-12	MALE	1	17.70	1	1	0	0	0	0	22	5	E Escana
10004	1963-02-22	MALE	2	12.56	в	8	0	0	1	3	12	34	C: Other
10005	1957-08-05	MALE	2	8.11	4	6	0	0	0	2	12	50	
10006	1966-03-16	MALE	2	7.28	5	9	1	0	0	0	35	8	
10007	1946-06-06	MALE	2	5.55	0	0	6	0	4	5	42	5	
10008	1965-08-02	MALE	1	5.08	1	3	0	0	0	0	2.4	2	
10009	1976-04-11	MALE	2	2.44	0	1	2	0	0	0	23	0	
10010	1967-09-12	MALE	2	0.39	2	4	0	0	0	1	8.5	0	

Upon selecting an offender in the Offender Information table, the Comparable Offender table will populate:

In the screen above: Offender 12PR is selected. This is a male, DOB -1970, Modeled Process is Recidivism with a score of 1.77.

Offender 12PR has a group of nearest neighbors that can provide us additional information. We can see their DOBs, we see that all of the offenders with a similar risk factor profile were males, we can see their actual risk (1 they stayed crime free for 3+ years, 2 they were convicted of a subsequent crime within two years. ). The Percent column tells us how important the comparable offender was in building the risk simulation. The columns denoted with V,P,D, W, E, O are the number of conviction the comparable offender has had in their career. Finally, the years served are the number of years of incarceration in a locked setting the comparable offender has had since their DOB and the year 2002.

#### **Needs Assessment**

The needs assessment information is derived from the RMS input form. The needs assessment is based on the level of behavioral functioning presented The RMS needs assessment displays two types of data:

- 1. Actual Ratings: the ratings you entered on the RMS input form (displayed in blue).
- 2. Simulation Ratings: the ratings generated from the overall risk factor pattern by the RMS modeling engine (displayed in red).



To close this window, click on the "Green X" in the upper-right hand corner.

#### Printing an Offender Report

A printed report can be generated for the RMS data presented on the screen.

Follow these steps:

- 1. Click the Results Filter tab.
- 2. Click on the offender for whom you would like to print a report.
- 3. Click the Printer Icon next to the Graphic Needs button near the upper right of the screen.



4. Click File, then Print in your browser.