



Department of  
Taxation

# Scan Specifications for the 2012 Ohio SD 100ES

## Important Note

The following document (**2012 SD 100ES**) contains grids for placement of information on this specific tax form. To accurately print, do not reduce the size, rotate or center this document. Doing so will jeopardize the integrity of the grid. When printing from Adobe Reader, please select "None" for "Page Scaling," which is under "Page Handling."

Ohio Department of Taxation  
4485 Northland Ridge Blvd.  
Columbus, OH 43229  
[tax.ohio.gov](http://tax.ohio.gov)

# Ohio Department of Taxation Scannable Tax Forms

## 1. Introduction:

The Ohio Department of Taxation (ODT) prescribes the format of Ohio tax returns and forms. The department's primary objective is to ensure that the tax forms are compatible with the department's automated remittance processing systems and can be processed in an efficient, accurate and economical manner.

These guidelines are for computerized tax processors, software developers, computer programmers, commercial printers, and others who develop and use substitute and reproduced tax forms.

## 2. Definitions:

### 2.01 Substitute Tax Forms –

A form other than the official ODT form that is computer-produced, computer-programmed or commercially typeset and printed. ODT must be able to process substitute tax forms in the same manner as the official forms. Substitute tax forms that are electronically produced must duplicate the appearance and layout of the official form including size of margins, special keying symbols and line numbers.

### 2.02 Facsimile (Text Mode) Forms –

For filing purposes, ODT does not accept dot matrix facsimile signature returns and schedules. They do not contain the data-entry symbols and other requirements necessary for processing. Companies must clearly print in the top margin of electronically processed text mode forms: **“DO NOT FILE THIS FORM.”**

### 2.03 Scannable Tax Forms –

The computer-prepared scannable forms are similar to the official ODT tax forms with the following exceptions: 1) the taxpayer-entity information layout and 2) a scanline that contains the taxpayers' tax data.

### 2.04 Reproduced Tax Forms –

Reproduced tax forms are photocopies of the official ODT forms. ODT will accept reproductions of official forms if the reproductions are:

- 1) Facsimiles of the official form produced by photo-offset, photoengraving, photocopying or other similar reproduction processes;
- 2) Printed in black ink on white paper of substantially the same weight, texture and quality as the official forms;
- 3) Legible in both the original text of the form and the filled-in data, and
- 4) The same dimensions as the official form, including the paper and the image produced on it.

ODT will accept one-sided reproduced forms even if the official form is two-sided. However, ODT prefers two-sided reproduced forms that result in the same page arrangements as the official form. If you cannot reproduce and print two-sided for the IT 941 and SD 101, please instruct the end-user of your software to retain the second page for their records. They should only mail in the front side. You may not file reproduced tax forms that do not meet the preceding guidelines. Reproduced tax forms that deviate from the official forms are considered substitute tax forms.

### 2.05 ID Field –

The area where the name, address, account number/social security number are printed.

#### **2.06 ICR-Readable Fields –**

All fields that will be read using Intelligent Character Recognition (ICR) technology.

#### **2.07 Line Item Text –**

The text, including item numbers, specifying the information to be entered into a data field.

#### **2.08 OCR-Readable Field –**

The scanline field that will be read using Optical Character Recognition (OCR) technology.

#### **2.09 Record Layout –**

A 6-line-per-inch vertical (rows) and 10-characters-per-inch horizontal (column) spacing grid, specifying the exact placement of all fields and characters on the facsimile form is provided with each form specification to assist in proper spacing and alignment.

#### **2.11 Data Field –**

The specific space on the form where a numeric figure is entered.

### **3. Specifications:**

#### **3.01 Field Length –**

Each form must contain the exact number of ID fields, line item texts and data fields, as the department-issued form.

#### **3.02 Signature –**

The signature, title and date area must be formatted in the same manner as the department-issued form.

#### **3.03 Name and Address –**

Name and address must be placed in the row and column specified in the grid format provided with each form.

#### **3.04 Account/Social Security Number –**

The account or social security numbers must be printed with spaces in the exact locations specified in the record layout. Masking of security numbers is required where noted on specific forms.

#### **3.05 Scanline Font –**

The OCR scanline must be printed using a fixed 10-pitch, OCR-A (12-point size) font. The use of Courier or OCR-B font is not permitted.

#### **3.06 Scanline Position –**

ODT remittance scanline reads from right to left. The bottom of the characters in the scanline must be  $\frac{1}{2}$  of an inch (with the exception of forms SD 101 and CAT 12, which is  $\frac{1}{3}$  of an inch) from the bottom edge of the form and  $1\frac{1}{2}$  inches from the right edge. See grid layout and Scanline Specifications Format for exact location of scanline.

#### **3.07 ICR –**

Dollar signs (\$) are not permissible in ICR-readable fields. Commas and periods are not allowed as separators between the digits in ICR-readable fields. ICR fields are defined in the record layout of each form.

#### **3.08 Total Remittance Field –**

This is the remittance line on the form that shows the tax due amount and payment submitted with the form. This field is read by the Courtesy Amount Reader (CAR) on our remittance-processing equipment and requires a dollar sign (\$) followed by a space preceding the remitted amount. The total remittance field must also include a decimal point to separate the dollar and cents digits. (Example: \$ 12345.00)

### **3.09 OCR/ICR Fields –**

Underlining or enclosing OCR/ICR readable data fields is not acceptable nor are vertical bars to be used to separate dollar and cents fields.

### **3.11 Finished Form Size –**

Form size is as specified in the grid layout for each form. Extraneous borders are not permitted. Edges **MUST** be trimmed to meet specifications. **DO NOT HAND-CUT BOTTOM OR RIGHT SIDE OF FORM.**

### **3.11 Paper Requirement –**

The paper must be white, high-quality bond paper with a minimum weight between 20 and 24 pounds.

### **3.12 Back of Form –**

Forms must be printed on one side only, unless the form is a two sided form. If two-sided, see section 2.04.

### **3.13 Inks –**

Forms must be printed using black ink, non-MICR (non-ferrous) ink or toner.

### **3.14 Shading –**

The use of shading or solid black areas for sidebars, headings or other areas is not permitted unless specified on tax return samples.

### **3.15 Reference Marks –**

On all scannable returns and vouchers there are target marks on the form. Exact locations of the target marks are listed on the grid layout for each form. Target marks must be a solid black box and should be .2”W x .167”H.

### **3.16 Software Scanline Developer Identification –**

The software developer identification is a three-letter vendor registration number (VRN) that will be assigned to each developer who prints a scanline on a tax form. The identification will be assigned to you by the Ohio Department of Taxation. The three-digit VRN refers to the developer *who designs the software to perform the tax calculations* **and** *to the developer who designs the form templates*. The VRN must be printed on each document in the exact area specified on the form grid. The use of a standard font size is acceptable.

## **4. Testing:**

All documents must be tested on ODT equipment before production runs. The ODT requests a certain amount (see section 8 for quantities) of test samples (cut to exact size) with the appropriate scanline and all data fields filled. Test documents must be submitted for approval to:

**Ohio Department of Taxation  
Forms Printing Division  
4485 Northland Ridge Blvd.  
Columbus, OH 43229**

**Note:** When submitting your forms for approval, please attach form **STF – Approval Request for Scannable Tax Forms** with your order. This will allow us to communicate any required changes to a contact person within your organization.

## **5. Approval Process:**

After you have submitted approval form STF, please allow two weeks for the Forms Printing Division to review and approve your order. You will receive written confirmation when your submittal has been approved.

## 6. Check Digit Routine (Modulus 10) For Scanline

- 1) Multiply each digit of the number by 1 or 2, starting from the left and going to the right. You will start with a 1 then 2, and continue this pattern to the end of that number.
- 2) Add all the digits together. Do not add the sum of the totals. For example, if your numbers are 1, 3, 4 and 19 your answer will be:  $1 + 3 + 4 + 1 + 9 = 18$ .
- 3) Divide the total from the digits by 10.
- 4) Subtract the remainder from 10. The answer is your check digit. **Note:** If your remainder is zero, your check digit will always be zero.

**Note:** This same procedure is followed for all check digit calculations throughout these specifications.

### Example:

#### Check digit calculation for social security number and school district number:

**Step 1** – Multiply each digit in the number by weights 121212.

1 2 3 4 5 6 7 8 9 (social security number)	2 5 0 9 (school district number)
X <u>1 2 1 2 1 2 1 2 1</u>	X <u>1 2 1 2</u>
1 4 3 8 5 12 7 16 9	2 10 0 18

**Step 2** – The digits of the individual products are summed.

$$1 + 4 + 3 + 8 + 5 + 1 + 2 + 7 + 1 + 6 + 9 = 47 \qquad 2 + 1 + 0 + 0 + 1 + 8 = 12$$

**Step 3** – Divide the sum by the modulus (10):

$\begin{array}{r} 4 \text{ (quotient)} \\ \text{(Modulus) } 10 \overline{)47} \\ \underline{40} \\ 7 \text{ (remainder)} \end{array}$	$\begin{array}{r} 1 \text{ (quotient)} \\ \text{(Modulus) } 10 \overline{)12} \\ \underline{10} \\ 2 \text{ (remainder)} \end{array}$
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**Step 4** – To compute the check digit:

**Modulus – Remainder = Check Digit**

$$10 - 7 = 3 \text{ (This is your check digit.)}$$

**Modulus – Remainder = Check Digit**

$$10 - 2 = 8 \text{ (This is your check digit.)}$$

**Step 5** – Append a space and the check digit to the right of the number: The complete form for the social security number is 123456789 3 and for the school district number is 2509 8.

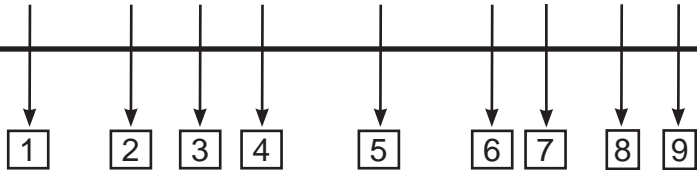
## 7. Check Digit for Scanline Payment Period

Form	Period	Check Digit	Form	Period	Check Digit
<b>IT 1040ES</b>	0112–April 17, 2012	3		0312–Sept. 17, 2012	9
	0212–June 15, 2012	1		0412–Jan. 15, 2013	7
<b>SD 100ES</b>	0112–April 17, 2012	3		0312–Sept. 17, 2012	9
	0212–June 15, 2012	1		0412–Jan. 15, 2013	7
<b>IT 501</b> (Quarterly)	130012–Jan-Mar 2012	8		150012–Jul-Sep 2012	3
	140012–Apr-Jun 2012	6		160012–Oct-Dec 2012	1
<b>IT 501</b> (Monthly)	010012–Jan 2012	3		070012–Jul 2012	0
	020012–Feb 2012	1		080012–Aug 2012	8
	030012–Mar 2012	9		090012–Sep 2012	6
	040012–Apr 2012	7		100012–Oct 2012	4
	050012–May 2012	4		110012–Nov 2012	2
	060012–Jun 2012	2		120012–Dec 2012	0
<b>IT 1041ES</b>	0112–2 <sup>st</sup> Quarter	3		0312–3 <sup>rd</sup> Quarter	9
<b>IT 1140ES</b> <b>IT 4708ES</b>	0212–2 <sup>nd</sup> Quarter	1		0412–4 <sup>th</sup> Quarter	7
<b>IT 1041EXT</b> <b>IT 1140EXT</b> <b>IT 4708EXT</b>	0511–Extension Payment	6			
<b>IT 941</b>	002012–Jan-Dec 2012	3	<b>FT 1120</b> <b>E/ER/EX</b>	2012–Tax Year	N/A
<b>IT 40P</b>	0511–April 17, 2012	6	<b>SD 40P</b>	0511–April 17, 2012	6
<b>SD 101</b> (Monthly)	013112 - 01/31/12	8	<b>SD 101</b> (Quarterly)	033112 - 03/31/12	4
	022912- 02/29/12	0		063012 - 06/30/12	9
	033112- 03/31/12	4		093012 - 09/30/12	3
	043012- 04/30/12	4		123112 - 12/31/12	5
	053112- 05/31/12	9			
	063012 - 06/30/12	9			
	073112- 07/31/12	5	<b>CAT 12</b>	2011 - Tax Year	5
	083112- 08/31/12	3			
	093012 - 09/30/12	3			
	103112 - 10/31/12	9			
	113012 - 11/30/12	9			
	123112 - 12/31/12	5			

**8. Scanline Specifications Format: Form: 2012 SD 100ES Size: 7.5” X 3.667”**

Description	Number of Positions	Character Length
Social Security Number	1-10	9
Check Digit for Social Security Number	11-12	1
Voucher and Year	13-17	4
Check Digit for Voucher and Year	18-19	1
Spouse’s Social Security Number (if single or married filing separately return, zero fill field)	20-29	9
Check Digit for Spouse’s Social Security Number	30-31	1
School District Number (see list for current taxable districts)	32-36	4
Check Digit for School District Number	37-38	1
Form Type	39-41	3




**Placement of the Scanline:** Will start on line 63 at position 30 and end at position 70. Blank spaces must be as noted. Print zeros in fields that contain no data. The scanline font is OCR-A (12-point size), 10 pitch (pica spacing). **Example:** 1 2 3 4 5 6 7 8 9 3 0 1 1 2 3 9 8 7 6 5 4 3 2 1 3 2 8 0 1 9 1 0 0



1. Social Security Number (9 digits and a space)
2. Check Digit for Social Security Number (1 digit and a space)
3. Period: Voucher Number and Year:
  - Voucher 1 (April 17, 2012) = 0112 (4 digits and a space)
  - Voucher 2 (June 15, 2012) = 0212
  - Voucher 3 (Sept. 17, 2012) = 0312
  - Voucher 4 (Jan. 15, 2013) = 0412
4. Check Digit for Period:
  - Voucher 1 = 3 (1 digit and a space)
  - Voucher 2 = 1
  - Voucher 3 = 9
  - Voucher 4 = 7
5. Spouse’s Social Security Number – print zeros in field if single or married filing separately return (9 digits and a space)
6. Check Digit for Spouse’s Social Security Number (1 digit and a space)
7. School District Number (4 digits and a space)
8. Check Digit for School District Number (1 digit and a space)
9. Form Type: This will remain a constant “100” on all vouchers.



**Note:** The ICR-readable fields will be the school district number, the first three letters of the taxpayer’s last name, the first three letters of the spouse’s last name and the taxpayer’s and spouse’s social security numbers. All periods, and joint and single filers, must be represented in a minimum of 8 test samples (20 test samples is the maximum amount) with at least two different names and addresses. A list of school district numbers can be provided upon request. The nine digit postal bar code for this form is 432181205.

**Note:** Both social security number fields are required to be masked. For example, the first five digits of the SSN will be replaced with X's and the last four digits will remain numerical, XXX XX 6789. The social security numbers within the scanline will remain unmasked.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
45	<b>SD 100ES</b> Rev. 10/11																						<b>Do NOT fold check or voucher.</b>																																																													
46	<b>School District Estimated Income Tax</b>																						<b>2012 SD ES</b>		Please use UPPERCASE letters to print the first three letters of																																																											
47	<b>(Voucher 1) Due April 17, 2012</b>																																																																																			
48	John Q. CitizenXXXXXXXXXXXXXXXXXXXX																						School district number		Taxpayer's last name		Spouse's last name (only if joint filing)																																																									
49	Jane E. PublicXXXXXXXXXXXXXXXXXXXX																						2801		CIT		PUB																																																									
50	1234 Any StreetXXXXXXXXXXXXXXXXXXXX																						Your Social Security Number		XXX XX 6789																																																											
51	Any CityXXXXXXXXXXXX, US 12345-2345																						Spouse's Social Security Number (only if joint filing)		XXX XX 4321																																																											
52	<b>DO NOT STAPLE OR OTHERWISE ATTACH YOUR CHECK OR CHECK STUB TO THIS COUPON. DO NOT SEND CASH.</b> Return this coupon with check or money order made payable to <b>School District Income Tax</b> and mail to <b>School District Income Tax</b> , P.O. Box 182389, Columbus, Ohio 43218-2389.																						<b>Amount of Payment</b> 		\$ 123456789.00																																																											
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123456789 3 0112 3 987654321 3 2801 9 100

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**SD 100ES** Rev. 10/11  **Do NOT fold check or voucher.** 

**School District Estimated Income Tax** **2012** **SD ES**


**(Voucher 1) Due April 17, 2012**


Please use UPPERCASE letters to print the first three letters of

John Q. CitizenXXXXXXXXXXXXXXXXXXXXX	School district number	Taxpayer's last name	Spouse's last name (only if joint filing)
Jane E. PublicXXXXXXXXXXXXXXXXXXXXX	2801	CIT	PUB
1234 Any StreetXXXXXXXXXXXXXXXXXXXXX	Your Social Security Number	XXX XX 6789	
Any CityXXXXXXXXXXXX, US 12345-2345	Spouse's Social Security Number (only if joint filing)	XXX XX 4321	

**DO NOT STAPLE OR OTHERWISE ATTACH YOUR CHECK OR CHECK STUB TO THIS COUPON. DO NOT SEND CASH.** Return this coupon with check or money order made payable to **School District Income Tax** and mail to **School District Income Tax**, P.O. Box 182389, Columbus, Ohio 43218-2389.

Vendor's Registration Number **ABC**

**Amount of Payment**  \$ 123456789.00

 123456789 3 0112 3 987654321 3 2801 9 100

**SD 100ES** Rev. 10/11



Do **NOT** fold check or voucher. 

**School District Estimated Income Tax  
(Voucher 1) Due April 17, 2012**

**2012** SD  
ES

Please use UPPERCASE letters  
to print the first three letters of

School district  
number

Taxpayer's  
last name

Spouse's last name  
(only if joint filing)

Your Social  
Security  
Number

Spouse's Social  
Security Number  
(only if joint filing)

DO **NOT** STAPLE OR OTHERWISE ATTACH YOUR CHECK OR  
CHECK STUB TO THIS COUPON. DO **NOT** SEND CASH. Return  
this coupon with check or money order made payable to **School  
District Income Tax** and mail to **School District Income Tax**, P.O.  
Box 182389, Columbus, Ohio 43218-2389.

Vendor's  
Registration  
Number

Amount of  
Payment

