Excel & Business Math Video/Class Project #35 VLOOKUP & MAX Function for Federal Income Tax Payroll Deductions

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1) Federal Income Tax Withholdings Deducted from Employees Paychecks

Federal Income Tax Withholdings

Federal Income Taxes collected by employer and sent to Federal Government on behalf of the employees

You can not wait until the end of the year to pay Federal Income Tax

The "Pay As You Go" concept applies: you must pay your taxes as you earn money.

The deduction from an employee's paycheck is only an estimate.

Why an estimate? Because you can not know the exact amount of your earnings for the year until the year is completed.

The estimate is based on your W-4 Form that you complete when you get a new job.

The estimate is based on:

- 1) Status you claim such as Single or Married.
- 2) Number of Allowances you claim (Number of people who you support, 1 Allowance = 1 personal or dependent exemption).

Withholding Allowance refers to an exemption that reduces how much income tax an employer deducts from an employee's paycheck.

Allowances are the governments way of allowing you to keep some of your income and not have it taxed -

the more people you support - the more non-taxed money the government allows you to keep.

Some people take the maximum number of allowances - will receive little refund after tax forms are filed.

Some people take fewer allowances than they qualify for – will receive more refund after tax forms are filed (final income tax form must list correct number of withholdings).

Two methods for employers to determine the amount of federal withholdings:

Wage Bracket Method:

The withholding tax is calculated off the gross earnings for the period

IRS supplies extensive tables to determine how much to withhold from check

Tables cover whether you are married or single, or whether you receive your wages weekly, monthly or other

Percentage Method:

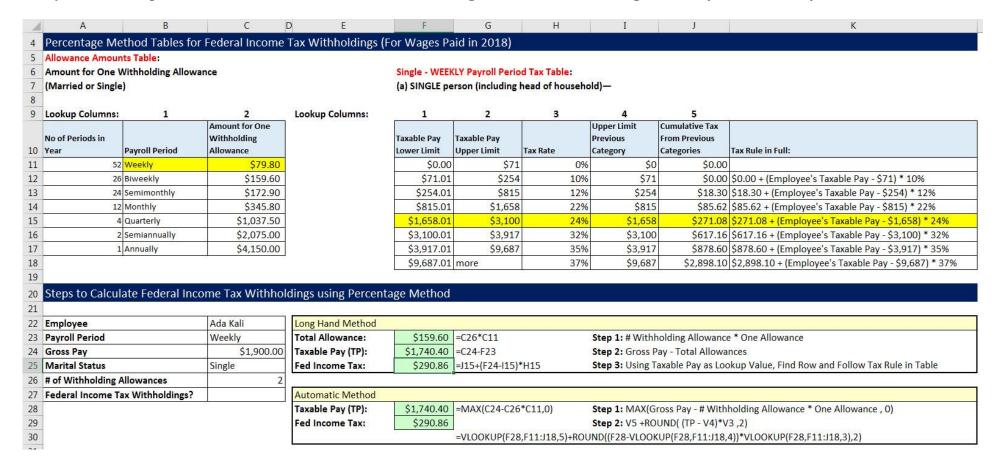
Does not require multiple pages of tables as does the Wage Bracket Method

Involves more steps than the Wage Bracket Method

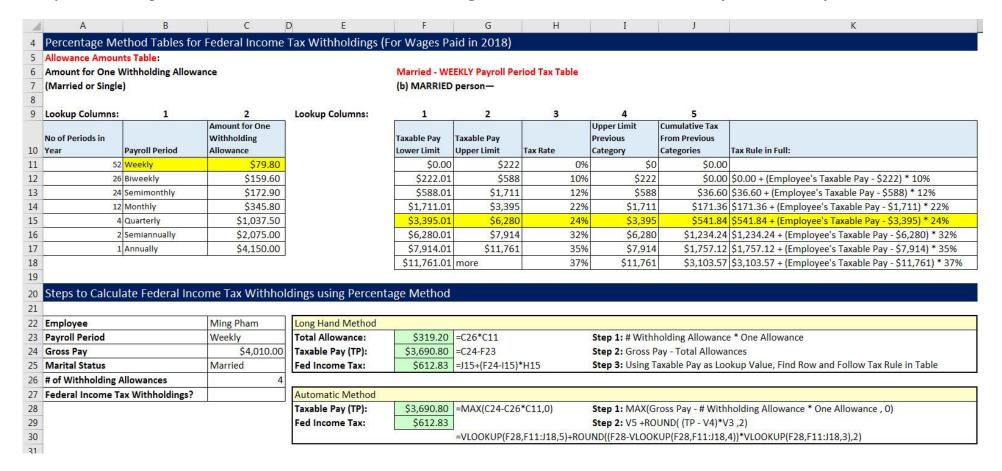
Both methods are defined by Official IRS Publication 15: (Circular E), Employer's Tax Guide

(30)	Type or print your first name and middle initial Matte E.	Last name Asino	2 Your social security number 5 4 3 2 4 1 6 8 0					
	Home address (number and street or rural route) 6242 Baxter Drive	3 Single Married Married, but withhold at higher Single rs Note: If married, but legally separated, or spouse is a nonresident alien, check the Single						
	City or town, state, and ZIP code Bangor, Maine 04412		W your last name differs from that on your social security card, check here. You must call 1-800-772-1213 for a new card					
6 7	Additional amount, if any, you want withheld from ex- cleim exemption from withhelding for 1999, and I cert Last year I had a right to a refund of ALL Federal This year I expect a refund of ALL Federal incorn If you meet both conditions, write "EXEMPT" here	ify that I meet BOTH of the following conditi income tax withheld because I had NO to e tax withheld because I expect to have M	ions for exemption: ax liability AND NO tax liability.					
	r penalties of perjury, I certify that I am entitled to the number of doyee's signature	f withholding allowances claimed on this certificate	or I am entitled to claim exempt status.					

2) Video Example 1: Calculate Federal Income Tax Withholdings for Marital Status "Single" and Pay Period Weekly



3) Video Example 2: Calculate Federal Income Tax Withholdings for Marital Status "Married" and Pay Period Weekly



4) Video Example 3: Calculate Federal Income Tax Withholdings for Marital Status "Single" and Pay Period Weekly for an Entire Payroll Table

A	В	C	D	E	F	G	Н	I	J K	L	M
Single WEEKLY Tax 1 Table ==>>	Taxable Pay Lower Limit (1)	Taxable Pay Upper Limit (2)	Tax Rate (3)	Upper Limit Previous Category (4)	Cumulative Tax From Previous Categories (5)	Tax Rule in Full:			Payroll Period for ALL Employees	Amount for 1 Weekly Allowance	Marital Status for ALL Employees in this table
2	\$0.00	\$71	0%	\$0	\$0.00				Weekly	79.8	Single
3	\$71.01	\$254	10%	\$71	\$0.00	\$0.00 + 10% * exces	s over \$71			i i	
4	\$254.01	\$815	12%	\$254	\$18.30	\$18.30 + 12% * exce	ss over \$254				
5	\$815.01	\$1,658	22%	\$815	\$85.62	\$85.62 + 22% * exce	ss over \$815				
6	\$1,658.01	\$3,100	24%	\$1,658	\$271.08	\$271.08 + 24% * exc	ess over \$1,658				
7	\$3,100.01	\$3,917	32%	\$3,100	\$617.16	\$617.16 + 32% * exc	ess over \$3,100				
8	\$3,917.01	\$9,687	35%	\$3,917	\$878.60	\$878.60 + 35% * exc	ess over \$3,917				
9	\$9,687.01	more	37%	\$9,687	\$2,898.10	\$2,898.10 + 37% * e	xcess over \$9,687			V5-ROUND((TG	P-V4)*V3,2)
10											
				Cumulative Tax From Previous	Upper Limit Previous Category		Federal Income Tax	Net Pay After Fed		Federal Income	
11 Employee	Gross Pay	# Allowances	Taxable Pay	Categories (5)	(4)	Tax Rate (3)	Withholding	1.T.		Withholding	
12 Mina Cordell	\$5,223.61	1	\$5,143.81	\$878.60	\$3,917.00	0.35	\$1,307.98	\$3,915.63		\$1,307.98	
13 Tyisha Fraser	\$10,018.08	3	\$9,778.68	\$2,898.10	\$9,687.00	0.37	\$2,932.02	\$7,086.06		\$2,932.02	
14 Lawrence Wynn	\$4,754.18	1	\$4,674.38	\$878.60	\$3,917.00	0.35	\$1,143.68	\$3,610.50		\$1,143.68	
15 Hildred Purnell	\$1,579.84	1	\$1,500.04	\$85.62	\$815.00	0.22	\$236.33	\$1,343.51		\$236.33	
16 Coleman Lipscomb	\$2,143.89	1	\$2,064.09	\$271.08	\$1,658.00	0.24	\$368.54	\$1,775.35		\$368.54	
17 Ciara Jay	\$55.00	1	\$0.00	\$0.00	\$0.00	0	\$0.00	\$55.00		\$0.00	
18 Nova Hazel	\$1,414.13	2	\$1,254.53	\$85.62	\$815.00	0.22	\$182.32	\$1,231.81		\$182.32	
19 Katelynn Turnbull	\$3,373.93	1	\$3,294.13	\$617.16	\$3,100.00	0.32	\$679.28	\$2,694.65		\$679.28	
20 Virgen Trapp	\$689.77	0	\$689.77	\$18.30	\$254.00	0.12	\$70.59	\$619.18		\$70.59	
21 Ninfa Desimone	\$2,664.73	1	\$2,584.93	\$271.08	\$1,658.00	0.24	\$493.54	\$2,171.19		\$493.54	
22											
23			Formula in D12:		Formula in F12:	N. III	Formula in H12:				
24			=MAX(B12-C12*\$L\$2		=VLOOKUP(D12,\$B\$		=E12+ROUND((D12-				
25				Formula in E12:		Formula in G12:		Formula in I12	2:		
26				=VLOOKUP(D12,\$B\$	2:\$F\$9,5)	=VLOOKUP(D12,\$B\$	2:\$F\$9,3)	=B12-H12			
27											
28											
29					Formula in L12:	4					
30					=VLOOKUP(D12,\$B\$	2:\$F\$9,5)+ROUND((D	12-VLOOKUP(D12,\$B	\$2:\$F\$9,4))*VL	OOKUP(D12,\$B\$	2:\$F\$9,3),2)	

5) Video Example 4: Calculate Federal Income Tax Withholdings for Marital Status "Married" and Pay Period Weekly for an Entire Payroll Table

d	Α	В	С	D	E	F	G	Н	I	J K	E	M
	Married WEEKLY Tax Table ==>>		Taxable Pay Upper Limit (2)	Tax Rate (3)	Upper Limit Previous Category (4)	Cumulative Tax From Previous Categories (5)	Tax Rule in Full:			Payroll Period for ALL Employees	Amount for 1 Weekly Allowance	Marital Status for ALL Employees in this table
2		\$0.00	\$222	0%	\$0	\$0.00				Weekly	79.8	Single
3		\$222.01	\$588	10%	\$222	\$0.00	\$0.00 + 10% * exces	s over \$222				
4		\$588.01	\$1,711	12%	\$588	\$36.60	\$36.60 + 12% * exce	ess over \$588				
5		\$1,711.01	\$3,395	22%	\$1,711	\$171.36	\$171.36 + 22% * exc	cess over \$1,711				
6		\$3,395.01	\$6,280	24%	\$3,395	\$541.84	\$541.84 + 24% * exc	ess over \$3,395				
7		\$6,280.01	\$7,914	32%	\$6,280	\$1,234.24	\$1,234.24 + 32% * e	excess over \$6,280				
8		\$7,914.01	\$11,761	35%	\$7,914	\$1,757.12	\$1,757.12 + 35% * e	excess over \$7,914				
9		\$11,761.01	more	37%	\$11,761	\$3,103.57	\$3,103.57 + 37% * e	xcess over \$11,761			V5-ROUND((TG	P-V4)*V3,2)
10			22 1111									
					Cumulative Tax From Previous	Upper Limit Previous Category		Federal Income Tax	DESCRIPTION OF THE PARTY OF THE		Federal Income Tax	
	Employee	Particular Calabra	# Allowances	Taxable Pay	Categories (5)	(4)	Tax Rate (3)	Withholding	After Fed I.T.		Withholding	
	Vanda Milton	\$8,195.61	2	+ -/		\$7,914.00					\$1,799.82	
	Chantel Hadden	\$8,099.08	6	+-/		\$6,280.00				p	\$1,663.13	-
_	Rubye Gleason	\$6,853.18	4	\$6,533.98		\$6,280.00					\$1,315.51	- A
100000	Monroe Mcgrath	\$4,341.84	5	\$3,942.84	\$541.84	\$3,395.00	1.00				\$673.32	
2500	Kanesha Shin	\$12,327.89	5	\$11,928.89	\$3,103.57	\$11,761.00	10000000	No. of the Contract of the Con	and the second s		\$3,165.69	
17	Jeannine Whitehead		2	\$1,318.70	7.00	\$588.00	The state of the s	\$124.28	100000000000000000000000000000000000000		\$124.28	
100	Dede Sawyers	\$148.95	2	\$0.00	\$0.00	\$0.00		\$0.00	\$148.95	0	\$0.00)
50	Thresa Carver	\$5,460.93	5	\$5,061.93	\$541.84	\$3,395.00		\$941.90	\$4,519.03		\$941.90)
-	Chance Hatley	\$1,255.77	7	\$697.17	\$36.60	\$588.00					\$49.70	
21	Benton Miner	\$2,427.73	2	\$2,268.13	\$171.36	\$1,711.00	0.22	\$293.93	\$2,133.80		\$293.93	3
22												
23				Formula in D12:		Formula in F12:		Formula in H12:				
24				=MAX(B12-C12*\$L\$	2,0)	=VLOOKUP(D12,\$B\$	2:\$F\$9,4)	=E12+ROUND((D12-	F12)*G12,2)			
25					Formula in E12:		Formula in G12:		Formula in I1	2:		
26					=VLOOKUP(D12,\$B\$	2:\$F\$9,5)	=VLOOKUP(D12,\$B\$	2:\$F\$9,3)	=B12-H12			
27												
28												
29						Formula in L12:						
30						=VLOOKUP(D12,\$B\$	2:\$F\$9,5)+ROUND((D	12-VLOOKUP(D12,\$B	\$2:\$F\$9,4))*V	LOOKUP(D12,\$B	32:\$F\$9,3),2)	