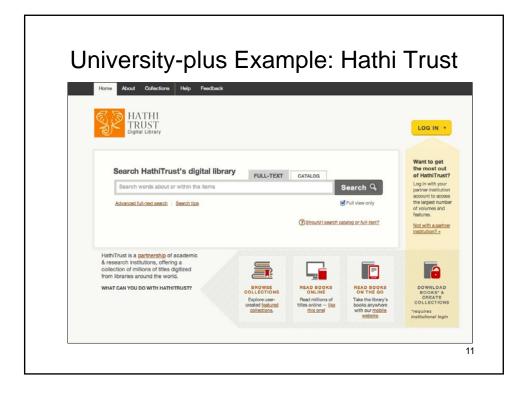
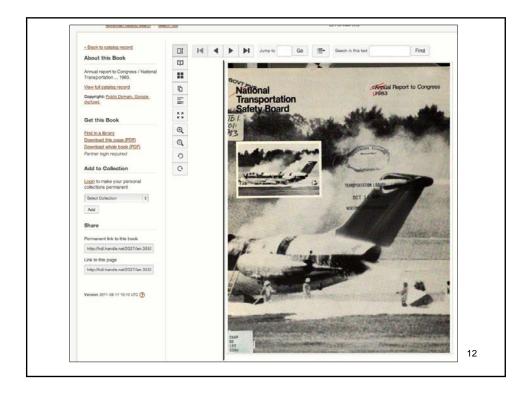
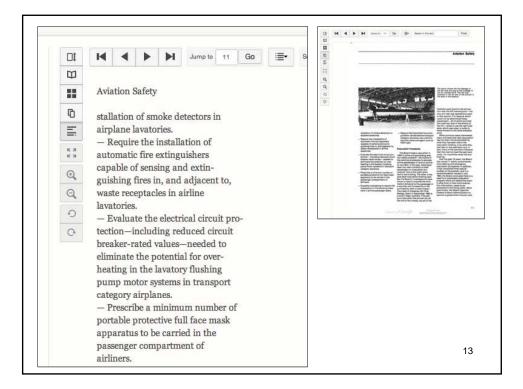


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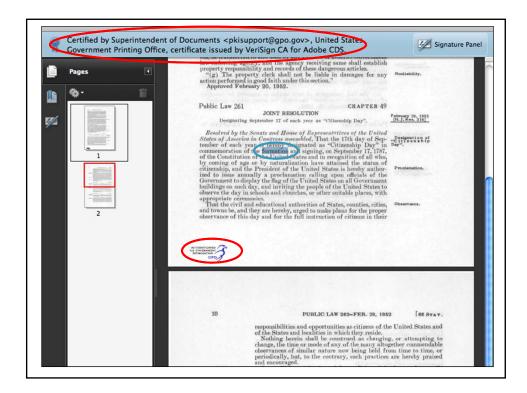
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Language(s):	English	
Published:	[Washington, D.C.] : National Transportation Safety Board : [1967-1984]	
Subjects:	United States, > National Transportation Safety Board > Periodicals, Transportation > Safety > Periodicals, Transportation > United States > Safety measures > Periodicals,	About this Book
Note:	Vols. for [1984] distributed to depository libraries in microfiche.	Annual report to Congress /
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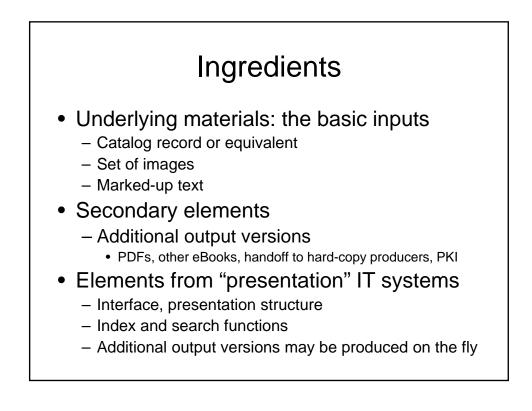
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	Dates in Session	Begun on Tuesday, January 8, 1952 adjourned sine de on Monde	w. July 7, 1952	
	Volume	Volume BE		
	Otation	40 Dat. 9		
	Pages	8-10		
	Law Number	Public Law 82-251		
	Date Approved	February 29, 1952		
	Full Title	Joint resolution designating September 17 of each year as ""Olio	anahip Day"	
	Associated Bill Number	H.J. Pass. 214		
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Ve to	Public Laws	
	Public Law 82-256 - An Act to provide for the withholding of certain patents that might be detrimental to the national security, and for other purposes	PDF I More
	Public Law 82-257 - An Act to suspend certain import duties on lead	PDF I More
-	Public Law 82-258 - An Act to provide for the temporary free importation of zinc	PDF I More
	Public Law 82-259 - An Act authorizing the acquisition by the Secretary of the Interior of the Gila Pueblo, in Gila County, Ariz., for archeological laboratory and storage purposes, and for other purposes	PDF I More
	Public Law 82-260 - An Act to require the taking and destruction of dangerous weapons in certain cases, and for other purposes	PDF I More
	Public Law 82-261 - Joint resolution designating September 17 of each year as ""Citizenship Day""	PDF I More
	Public Law 82-262 - An Act to extend to screen vehicle contractors benefits accorded star route contractors with respect to the renewal of contracts and adjustment of contract pay	PDF I More
	Public Law 82-263 - An Act to amend the act relating to the incorporation of Trinity College of Washington, D. C., in order to make the Archbishop of the Roman Catholic Archdiocese of Washington an ex officio member and chairman of the board of trustees of such college	PDF I More
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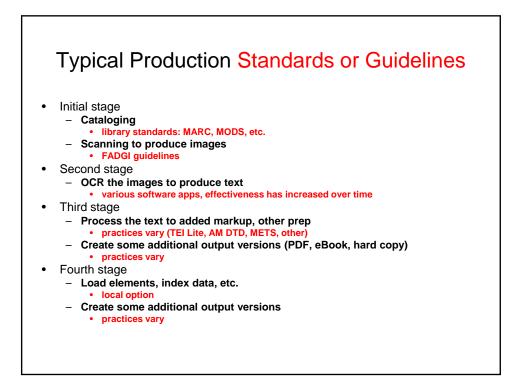
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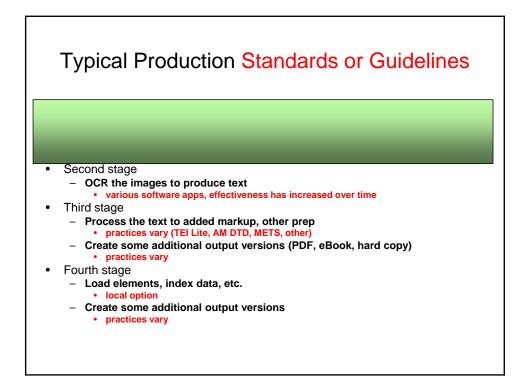


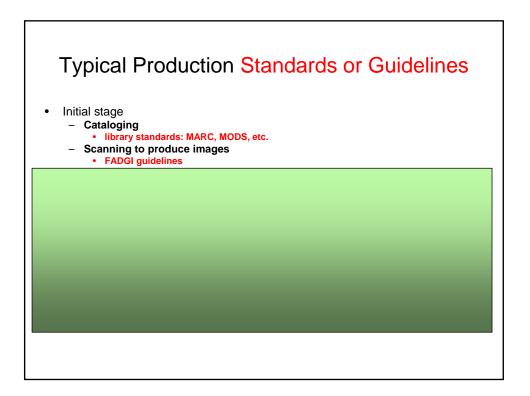


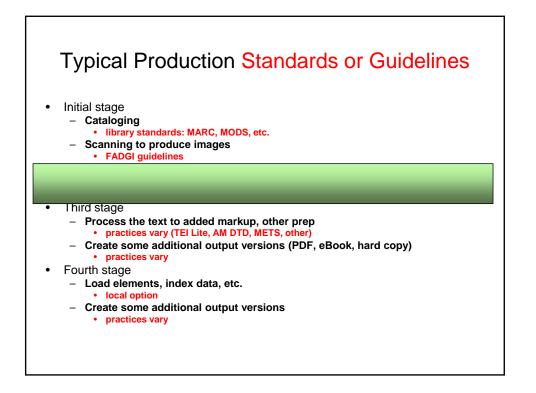
Typical Production

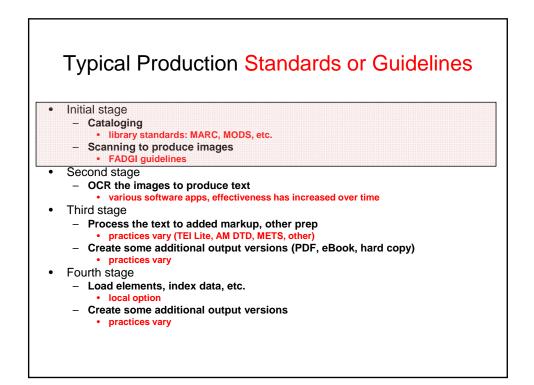
- Initial stage
 Cataloging
 - Scanning to produce images
- Second stage - OCR the images to produce text
- Third stage
 - Process the text to added markup, other prep
 - Create some additional output versions (PDF, eBook, hard copy)
- Fourth stage
 - Load elements, index data, etc.
 - Create some additional output versions

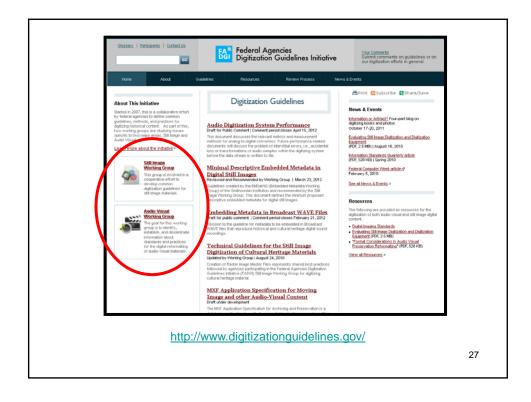


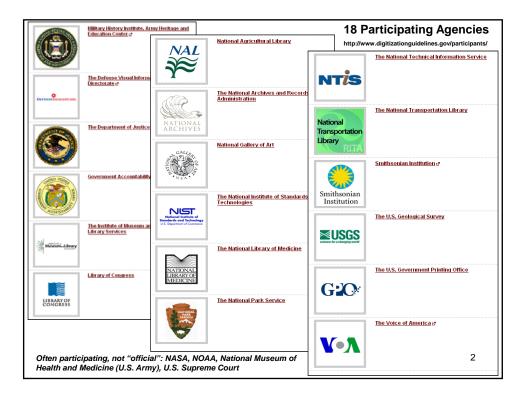






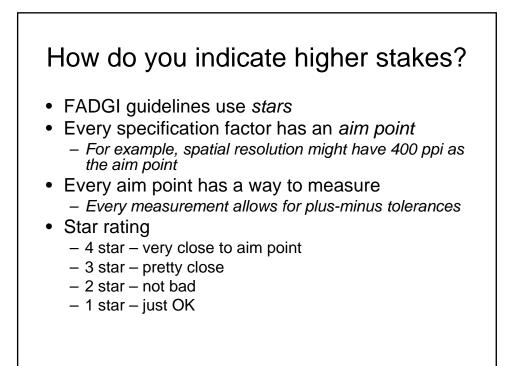






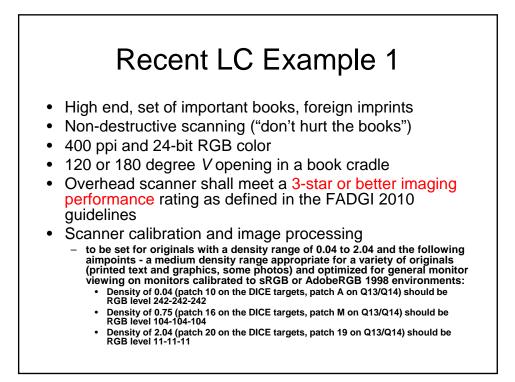


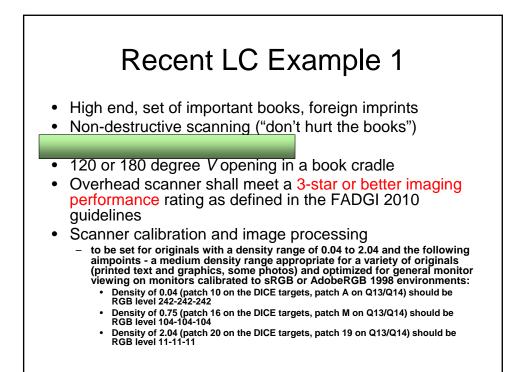
- Something of a line-drawing exercise
- Purpose, goal
 - If the term *preservation* is used, the stakes are higher
- Category of original item
 - If materials are rare, or only held in a few libraries, the stakes are higher
 - If materials contain important illustration or diagrams (and in color), the stakes are higher

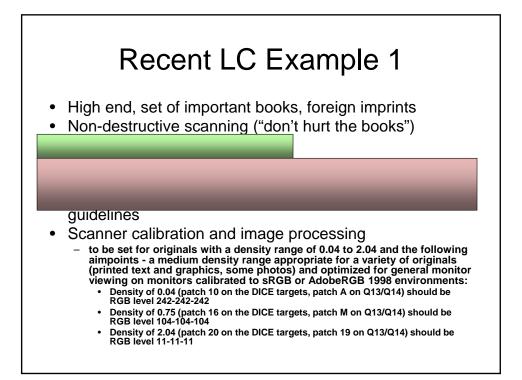


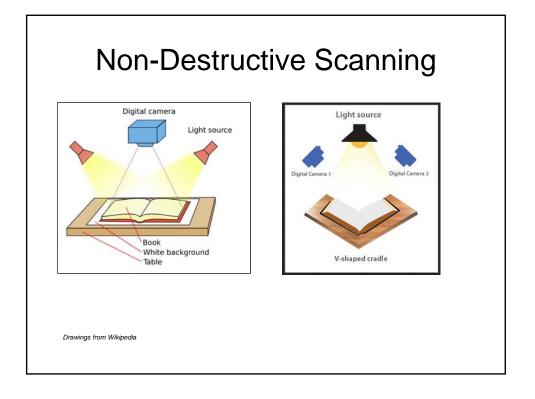
Rough Rule of Thumb

- 4-star
 - Artwork, world and national treasures, etc.
- 3-star
 - Unique manuscript and archival documents
- 2-star
 - General collections (not unique) and printed publications
- 1-star
 - Text conversion, image quality not important

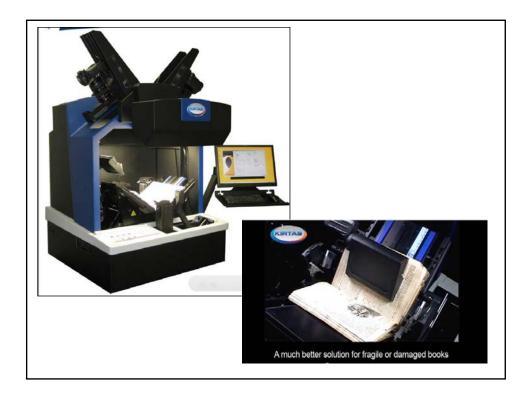


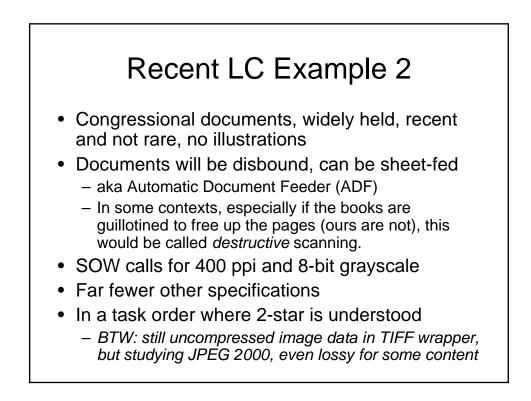


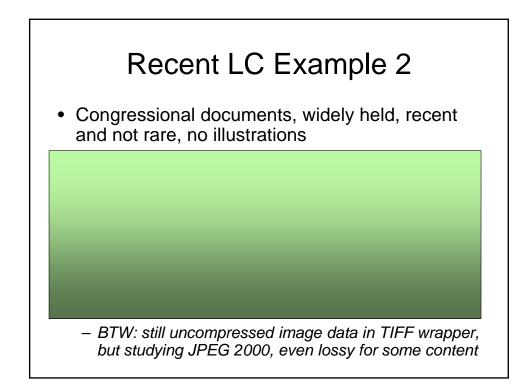


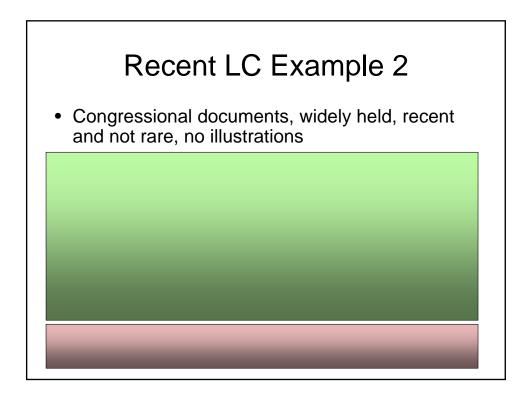










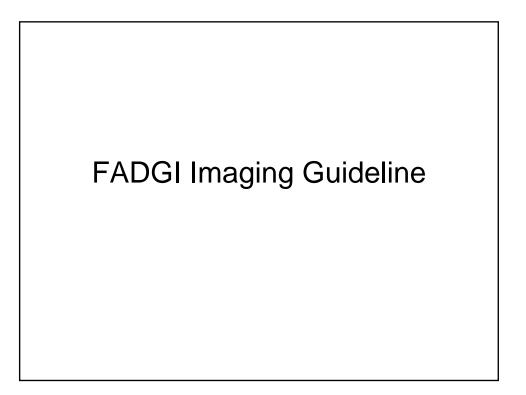


File Format

- TIFF file wrapper
- RGB 24-bit color or grayscale
- LC produces uncompressed images
- Other organizations use lossless LZW compression
- However, file size is leading us to consider JPEG 2000
- JPEG 2000 can be used in lossless or lossy modes





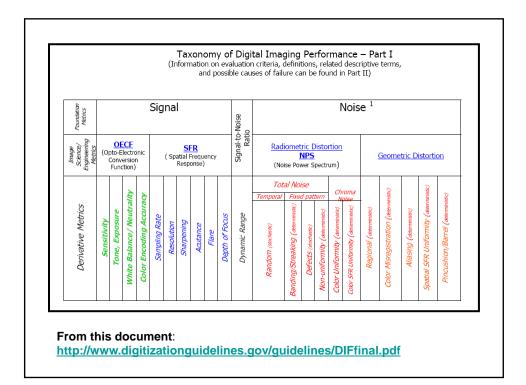


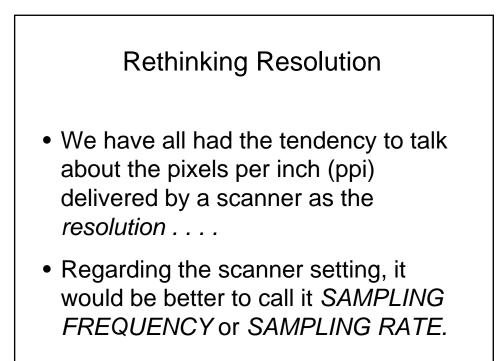
Still image specifications – this is what we all "used to do"

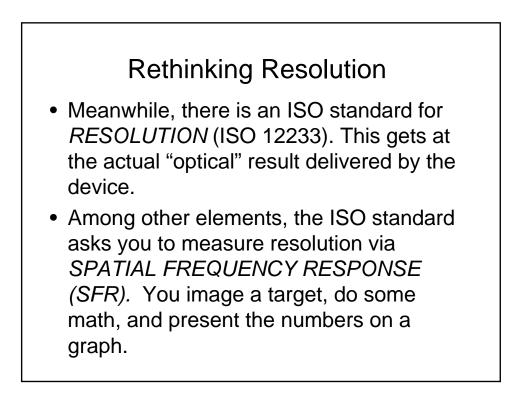
- color/monochromatic
- pixels per inch (ppi; aka old "dpi")
- bit depth
- . . . usually output-referred

We want to move toward more scientific metrics

<u>Tone</u>	Resolution	<u>Color</u>	<u>Uniformity</u>	<u>Noise</u>
• Gamma • White Balance	 Spatial Frequency Response (SFR) Resolution Sampling Efficiency Sampling Frequency 	 Luminance Delta E₂₀₀₀ Delta E(a*b*)₂₀₀₀ Channel Mis-registration 	• % Lighting Non-uniformity	• Total rms deviation









- Knowing the Spatial Frequency Response (SFR) lets you compare the scanner's setting (sampling frequency) with what you get (in true optical terms).
- FADGI documents call what you get EFFECTIVE RESOLUTION.
- The comparison of scanner setting and effective resolution is what we call *SAMPLING EFFICIENCY*.

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	108%	111%	121%	123%	138%	152%	156%	178%	204%	237%	278
times and the second seco			3-star (> 90% and up to 95%)		2-star (> 80% and up to 90%)			1-star (80% or less)			
	100% 5000 2500 1200 800 600 400 300 200 100	100% 96% 5000 4800 2500 2400 1200 1152 800 768 600 576 400 384 300 288 200 192 100 96 108%	Scanne 100% 96% 95% 5000 4800 4750 2500 2400 2375 1200 1152 1140 800 768 760 600 576 570 400 384 380 300 288 285 200 192 190 100 96 95 108% 111% 111%	Scanner Samplir 100% 96% 95% 91% 5000 4800 4750 4550 2500 2400 2375 2275 1200 1152 1140 1092 800 768 760 728 600 576 570 546 400 384 380 364 300 288 285 273 200 192 190 182 100 96 95 91 108% 111% 121%	Scenner Sempling Efficien Scenner Sempling Efficien 100% 96% 95% 91% 90% 5000 4800 4750 4550 4500 2500 2400 2375 2275 2250 1200 1152 1140 1092 1080 800 768 760 728 720 600 576 570 546 540 400 384 380 364 360 300 288 285 273 270 200 192 190 182 180 100 96 95 91 90 108% 111% 121% 123%	Scenner Sampling Efficiency and Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan=">	Scanner Sampling Efficiency and Correspond Scanner Sampling Efficiency and Correspond 100% 96% 95% 91% 90% 85% 81% 5000 4800 4750 4550 4500 4250 4050 2500 2400 2375 2275 2250 2125 2025 1200 1152 1140 1092 1080 1020 972 800 768 760 728 720 680 648 600 576 570 546 540 510 486 400 384 380 364 360 324 300 288 285 273 270 255 243 200 192 190 182 180 170 162 100 96 95 91 90 85 81 108% 111% 121% 123% 138% 152%	V V Scanner Sempling Efficiency and Corresponding Effect 100% 96% 95% 91% 90% 85% 81% 80% 5000 4800 4750 4550 4500 4250 4050 4000 2500 2400 2375 2275 2250 2125 2025 2000 1200 1152 1140 1092 1080 1020 972 960 800 768 760 728 720 680 648 640 600 576 570 546 540 510 486 480 4000 384 380 364 360 324 320 300 288 285 273 270 255 243 240 200 192 190 182 180 170 162 160 100 96 95 91 90 85 81 85 </td <td>Scanner Sampling Efficiency and Corresponding Effective Resol 100% 95% 91% 90% 85% 81% 80% 75% 5000 4800 4750 4550 4500 4250 4050 4000 3750 2500 2400 237 2275 2250 2125 2005 2000 1875 1200 1152 1140 1092 1080 1020 972 960 900 800 768 760 728 720 680 648 640 600 600 576 570 546 540 510 486 480 450 400 384 380 364 360 340 324 320 300 300 288 285 273 270 255 243 240 225 200 192 190 182 180 170 162 160 150 100 96 <</td> <td>Scanner Sampling Efficiency and Corresponding Effective Resolution 100% 95% 91% 90% 85% 81% 80% 75% 70% 5000 4800 4750 4550 4500 4250 4050 4000 3750 3500 2500 2400 2375 2275 2250 2125 2025 2000 1875 1750 1200 1152 1140 1092 1080 1020 972 960 900 840 800 768 760 728 720 680 648 640 600 560 600 576 570 546 540 510 486 480 420 400 384 380 364 360 340 324 320 300 280 300 288 285 273 270 255 243 240 225 210 100 96 95 91 90</td> <td>Scanner Sampling Efficiency and Corresponding Effective Resolution 100% 96% 95% 91% 90% 85% 81% 80% 75% 70% 65% 5000 4800 4750 4550 4500 4250 4000 3750 3500 3250 2500 2400 2375 2275 2215 2020 1875 1750 1625 1200 1152 1140 1092 1080 1020 972 960 900 840 780 800 768 760 728 720 680 648 640 600 560 520 600 576 570 546 540 510 486 480 450 420 390 400 384 380 364 360 340 324 320 300 288 285 273 270 255 243 240 225 210 195 200 192</td>	Scanner Sampling Efficiency and Corresponding Effective Resol 100% 95% 91% 90% 85% 81% 80% 75% 5000 4800 4750 4550 4500 4250 4050 4000 3750 2500 2400 237 2275 2250 2125 2005 2000 1875 1200 1152 1140 1092 1080 1020 972 960 900 800 768 760 728 720 680 648 640 600 600 576 570 546 540 510 486 480 450 400 384 380 364 360 340 324 320 300 300 288 285 273 270 255 243 240 225 200 192 190 182 180 170 162 160 150 100 96 <	Scanner Sampling Efficiency and Corresponding Effective Resolution 100% 95% 91% 90% 85% 81% 80% 75% 70% 5000 4800 4750 4550 4500 4250 4050 4000 3750 3500 2500 2400 2375 2275 2250 2125 2025 2000 1875 1750 1200 1152 1140 1092 1080 1020 972 960 900 840 800 768 760 728 720 680 648 640 600 560 600 576 570 546 540 510 486 480 420 400 384 380 364 360 340 324 320 300 280 300 288 285 273 270 255 243 240 225 210 100 96 95 91 90	Scanner Sampling Efficiency and Corresponding Effective Resolution 100% 96% 95% 91% 90% 85% 81% 80% 75% 70% 65% 5000 4800 4750 4550 4500 4250 4000 3750 3500 3250 2500 2400 2375 2275 2215 2020 1875 1750 1625 1200 1152 1140 1092 1080 1020 972 960 900 840 780 800 768 760 728 720 680 648 640 600 560 520 600 576 570 546 540 510 486 480 450 420 390 400 384 380 364 360 340 324 320 300 288 285 273 270 255 243 240 225 210 195 200 192

Effecti		1050										
Desired Spatial Resolution	100%	96%	Scanne 95%	er Samplin 91%	ng Efficien 90%	icy and Co 85%	orrespond 81%	ing Effect 80%	ive Resol 75%	ution 70%	65%	60%
5000 ppi	5000	4800	4750	4550	4500	4250	4050	4000	3750	3500	3250	3000
2500 ppi	2500	2400	2375	2275	2250	2125	2025	2000	1875	1750	1625	1500
1200 ppi	1200	1152	1140	1092	1080	1020	972	960	900	840	780	720
800 ppi	800	768	760	728	720	680	648	640	600	560	520	480
600 ngi	600	576	570	546	540	510	486	480	450	420	390	360
400 ppi	400	384	380	364	360	340	324	320	300	280	260	240
SUU ppi	300	288	285	273	270	255	243	240	225	210	195	180
200 ppi	200	192	190	182	180	170	162	160	150	140	130	120
100 ppi	100	96	95	91	90	85	81	85	75	70	65	60
Spurious Resolution and Storage Overhead*		108%	111%	121%	123%	138%	152%	156%	178%	204%	237%	278%
Imaging Performance Level**	4-star (and up to		3-star (> 90% 2-star (> 80% and up to and up to 95%) 90%)				l up to	1-star (80% or less)				

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I I	2000	1+									
ver	resc	nuu	IOII								
		Seamo	sr Samalir	a Efficien	en and G	rrecoord	ing Effect	iun Peral	ution		
100%	96%									65%	60%
						Contraction of the local sector of the local s		a second in			3000
						0.000	2000				150
1200	1152	1140	1092	1080	1020	972	960	900	840	780	72
800	768	760	728	720	680	648	640	600	560	520	48
600	576	570	546				480		420		36
400	384	380	364	360	340	324	320	300	280	260	24
300	288	285	273	270	255	243	240	225	210	195	18
200	192	190	182	180	170	162	160	150	140	130	12
100	96	95	91	90	85	81	85	75	70	65	6
	108%	111%	121%	123%	138%	152%	156%	178%	204%	237%	2789
-				20126						10000	
4	0504	2	. 0.00/	2	0.00/						
4-star (1-star (> 95% 3-star (> 90%			2-star (> 80% and up to 90%)			1-star (80% or less)				
	100% 5000 2500 1200 800 500 400 300 200 100	100% 96% 5000 4800 2500 2400 1200 1152 800 768 600 576 400 384 300 288 200 192	Scanne 100% 96% 95% 5000 4800 4750 2500 2400 2375 1200 1152 1140 800 768 760 500 288 285 200 192 190 100 96 95 108% 111%	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Scanner Sampling Efficien 100% 96% 95% 91% 90% 5000 4800 4750 4550 4500 2500 2400 2375 2275 2250 1200 1152 1140 1092 1080 800 768 760 728 720 600 526 570 546 540 400 384 380 364 360 300 288 285 273 270 200 192 190 182 180 100 96 95 91 90 108% 111% 121% 123%	Scenner Sampling Efficiency and Co 100% 95% 91% 90% 85% 5000 4800 4750 4550 4500 4250 2500 2400 2375 2275 2250 2125 1200 1152 1140 1092 1080 1020 800 768 760 728 720 680 600 526 570 546 540 510 400 384 380 364 360 340 300 288 285 273 270 255 200 192 190 182 180 170 100 96 95 91 90 85 108% 111% 121% 123% 138%	Scanner Sampling Efficiency and Correspond 100% 95% 91% 90% 85% 81% 5000 4800 4750 4550 4500 4250 4050 2500 2400 2375 2275 2250 2125 2025 1200 1152 1140 1092 1080 1020 972 800 768 760 728 720 680 648 600 526 570 546 540 510 486 400 384 380 364 360 340 324 200 192 190 182 180 170 162 100 96 95 91 90 85 81 108% 111% 121% 123% 138% 152%	Scanner Sampling Efficiency and Corresponding Effect 100% 95% 91% 90% 85% 81% 80% 5000 4800 4750 4550 4500 4250 4050 4000 2500 2400 2375 2275 2250 2125 2025 2000 1200 1152 1140 1092 1080 1020 972 960 800 768 760 728 720 680 648 640 600 526 570 546 540 510 486 480 400 384 380 364 360 340 324 320 300 288 285 273 270 255 243 240 100 96 95 91 90 85 81 85 100% 111% 121% 123% 138% 152% 156%	Scanner Sampling Efficiency and Corresponding Effective Resol 100% 95% 91% 90% 85% 81% 80% 75% 5000 4800 4750 4550 4500 4250 4050 4000 3750 2500 2400 2375 2275 2250 2125 2025 2000 1875 1200 1152 1140 1092 1080 1020 972 960 900 800 768 760 728 720 680 648 640 600 600 575 570 546 540 510 486 480 450 400 384 380 364 360 340 324 320 300 300 288 285 273 270 255 243 240 225 200 192 190 182 180 170 162 160 150 100 96	Scanner Sampling Efficiency and Corresponding Effective Resolution 100% 96% 91% 90% 85% 81% 80% 75% 70% 5000 4800 4750 4550 4500 4250 4050 4000 3750 3500 2500 2400 2375 2275 2250 2125 2025 2000 1875 1750 1200 1152 1140 1092 1080 1020 972 960 900 840 800 768 760 728 720 680 648 640 600 560 600 570 546 540 510 486 480 450 420 400 384 380 364 360 340 324 320 300 280 300 288 285 273 270 255 243 240 225 210 100 96 95 91 90	Scanner Sampling Efficiency and Corresponding Effective Resolution 100% 96% 91% 90% 85% 81% 80% 75% 70% 65% 5000 4800 4750 4550 4500 4250 4050 4000 3750 3500 3250 2500 2400 2375 2275 2250 2125 2025 2000 1875 1750 1625 1200 1152 1140 1092 1080 1020 972 960 900 840 780 800 768 760 728 720 680 648 640 600 560 520 600 570 546 540 510 486 480 450 420 390 400 384 380 364 360 340 324 320 300 280 260 300 288 285 273 270 255 243 240 225

Effecti	ve I	Res	oluti	ion								
Desired Spatial			Scanne	r Samplin	ng Efficien	ere and Co	rrespond	ing Effect	ive Resol	ution		
Resolution	100%	96%	95%	91%	90%	85%	81%	80%	75%	70%	65%	60%
5000 ppi	5000	4800	4750	4550	4500	4250	4050	4000	3750	3500	3250	3000
2500 ppi	2500	2400	2375	2275	2250	2125	2025	2000	1875	1750	1625	1500
1200 ppi	1200	1152	1140	1092	1080	1020	972	960	900	840	780	720
800 ppi	800	768	760	728	720	680	648	640	600	560	520	480
600 naj	600	576	570	546	540	510	486	480	450	420	390	360
400 ppi	400	384	380	364	360	340	324	320	300	280	260	240
sou ppi	300	288	285	273	270	255	243	240	225	210	195	180
200 ppi	200	192	190	182	180	170	162	160	150	140	130	120
100 ppi	100	96	95	91	90	85	81	85	75	70	65	60
Spurious Resolution and Storage Overhead*		108%	111%	121%	123%	138%	152%	156%	178%	204%	237%	278%
Imaging Performance Level**	4-star (: and up to		3-star (and up t		2-star (>	> 80% and 90%)	l up to		1-sta	r (80% or l	ess)	

